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Canadian Agriculturist,

OR

OURNAL AND TRANSACTIONS OF THE BOARD OF AGRICULTURE

OF UPPER CANADA.

OL. XIII.

TORONTO, MAY 16, 1861.

No. 10.

The Season.

The present must now be fairly considered as late spring; all kinds of vegetation being a -night behind the average of years, with no mediate prospect of a decided change. in that the late severe frosts have done conrable damage to winter wheat in exposed _ions, and that many fields have been aghed up for spring grain. It is to be hoped the damage has been only partial, and that great bulk of the extensive area sown to est is secure. The weather has been extrainary, and all kinds of field work are behind. ywas ushered in with a severe snow storm, for several nights the thermometer sunk eral degrees below freezing! Generally weather has been dry, and the days comparaly cold; fruit buds and vegetation have sfore been kept back, and with a more temperature to come, they may not be d to have sustained any very serious injury. recent heavy fall of rain put a stop for al days to farming operations, and upon lands, at this advanced period, must prove mental. Still, if settled and genial weather Id soon set in, a boon that may fairly be an-...ed, the finishing of seeding may be perunder more favorable conditions, and crops, including fruit, prove abundant and Lerative. The prospect for grass, and conally hay, will, under such circumstances, reencouraging than for some time past;

and the intimate connection between a goodl crop of hay and the economical management of stock during our protracted winters is a reatterwhich every Canadian farmer perfectly understands.

We must not, however, altogether depend upon the produce of hay and straw for the car rying of cattle through winter; and therefore we again remind our readers at the risk of being charged with repetition, of the necessity of attending to the raising of roots; a branch of improved culture that forms a chief characteristic of modern agriculture. It is not now too late to sow carrots and parsnips, which may turn out. as well as the earlier sown in such a season asthe present, and mangel wurzel, as soon as the ground gets warm and dry, may be sown on all. suitable and well prepared soils, with every prospect of remunerative returns. The long red on deep rich soils will generally be found to yield. the heaviest weights; but on drier, and shallower land the yellow globe is to be preferred. Both require ample room both in and between, the rows, and the frequentstiring of the ground in dry weather wonderfully conduces to the growth of all these kinds of crops. Mangels, if sown too early, are apt to run to seed, particularly if the land be rich, and the season moists and warm; but they should be sown in this country as soon as the ground gets,dry and warm, and all danger of night frosts, of much intensity, is over. Mangels, when properly stored, will keep fresh and good till the end of May, and

even later; and will be found excellent for sheep and all descriptions of cattle, particularly milch cows. In cold late springs especially, the farmer finds such an auxiliary in sustaining his domesticated animals of the highest importance.

The principal root, after all, is the Swedish turnip, the time for sowing which is near at hand; the end of the present, or the beginning of next month. If Swedes are sown too early, particularly .n rich soils, and the season should prove warm and showery, the plants will, in all probability, become affected by mildew, and its feeding properties consequently very much deteriorated. The purple top yields, perhaps, the heaviest crop of the several varieties under cultivation, but Laing's Improved, from its peculiar growth and qualities, is the one most suited for table use. Sowing in drills is almost universally to be recommended, but the exact distances either in or between the rows depend in some degree on the nature of the soil, as regards texture and fertility, the variety of turnips selected, and must be left to a certain extent to the judgment of the cultivator. On good, well prepared soil the distance between the rows may vary from twenty to thirty inches; and under proper management in favourable seasons, a crop may be obtained of from six to upwards of eight hundred bushels per acre. No farmer, however small his holding, ought to be without this invaluable root. It is one of the most satisfactory signs of the improving condition of Canadian farming, that the cultivation of turnips, mangels, carrots, &c., is annually increasing.

The Provincial Exhibition.

In another part of this issue will be found a circular from John Barwick, Esq., President of the Agricultural Association of Upper Canada, calling the attention of farmers and all others interested to the importance of making timely praparation for a participation in the great Annual Exhibition of our Provincial wealth and industry, this year to take place at London. The Board of Agriculture held a meeting at that city in the beginning of April, and also attended a meeting of the local Committee there; when, notwithstanding there have been

rather formidable difficulties to encounter, in regard to the local preparations, there appeared full reason to be assured that ample and satu factory accommodation would be prepared; and that the intelligent and energetic farmers and business men of that fertile and prosperous dis trict would by no means suffer even a partial failure to take place in their part of the Dro. gramme. We have, therefore, every reason to believe that the exhibition at London this year will sustain the high position which the Annual Provincial Exhibition of Upper Canada has earned for itself amongst displays of a similar character. Farmers, breeders, manufacturer, and others who design exhibiting, cannot begin too soon to keep their preparations in view. if they would secure the greatest perfections, in form or quality, and most perfect condition attainable, in the different animals or articles detailed for show. The Prize List will appear early in June. In the meantime, those who design exhibiting may take the lists of former years as a guide, as prizes will be offered for the same articles, and the aggregate amount will be larger than that of any former years, except us year only, when the amount was considerably increased on the special occasion of the visit of the Prince of Wales.

Provincial Exhibition of 1851.

CIRCULAR FROM THE PRESIDENT OF THE AGRICULATION.

To the Agriculturists, Horticulturists, Manufacturers, Mechanics, &c., of Canada West

The Board of Agriculture for Canada West lately met in the City of London, with the view of conferring with the Local Committee organized for the purpose of making preparations for the Provincial Exhibition to be held in London on the 24th, 25th, 26th, 27th September next.

The Local Authorities have procured very advantageously situated ground, to the extent twenty seven acres, for the use of the Association (the same as that occupied in 1854), addamaking active exertions to erect permanental conditions, stabling and sheds. Exhibitor rely that ample and proper accommodation be provided, and I trust that there may a former occasions, be a spirited competition for all parts of the Province.

The prize list will be published early in loss and will call for competition in the same class.

in the past years, with some additions. The mount to be awarded will be about 12,000

Arrangements have been made with the first Western, the Grand Trunk, and other testern reliways, and also with the proprietors f the lake steamboats, to carry passengers, took, and articles to and from the Exhibition

treduced fares.
The accommodation for visitors in London to be ample, and the hotel charges moderate.

JOHN BARWICK,

President Prov. Agricultural Association. Woodstock, 30th April, 1861.

Shipment of Stock for Canada.

EDITOR OF THE CANADIAN AGRICULTURIST. On Thursday, the 11th inst., the Helen Doulas, of Annan, sailed from the port of Annan th a full cargo of general farm stock for merica. In every respect the whole of the nimals are, from the continued improvement of he breed, much superior in quality to any pre-ously shipped from this country. The various gicultural Societies' shows held throughout kingdom have done much to enlarge the 'm of our noted breeders; and it may now be 'sted, with at least some degree of confidence, the different kinds of stock in this country rapidly approaching to a state of perfection. my of the enterprising farmers and breeders this county (Dumfriesshire) have already ained a world-wide reputation for their horses, the and sheep; and their names, under the spective classes of animals, appear as eminall successful competitors, not only at all the antry and in England, but also throughout continent, and in America.

Having had an opportunity of ascertaining m whom Mr. Cimon Beattle, of Markham, mada West, purchased a portion of his stock, may be interesting to some of your agriculalfriends to learn that amongst his lot he a two-year old Durham heifer and a bull-calf on the far-famed herd of Mr. Syme, of Red-4 in this country. The heifer is a very sunor and well-bred animal, and the bull-calf is of one of Mr. Syme's favourite cows, and is sidered by him to be one of the very best ersent from his herd. Mr. Syme's name, as breeder of Shorthorns, is not better nor more tensively known in this country than it is oughout Canada. He has sent out many ...e from his stock that have obtained numerprizes there; and in this country he has s held high ground among agriculturists the excellency and purity of his breed. The nanimal specially worthy of notice is a two--old heifer from the no less famous Gallo-J'herd of Mr. Beattie, of Newbie House,

near Annan. This animal gained a first prize as a yearling, at a public show, where there were exhibited some of the best Galloways in Dum-Mr. Beattie, of Newbie House, is, and frieshire. has been the exclusive proprietor of the wellknown race of Galloway bulls distinguished by the name of "Mosstrooper," that have gained more premiums and medals than any other bulls in Great Britain, and have never been beatensee the catalogues of the Royal Agricultural Society's Show of England, and of the Highland Agricultural Society's Exhibition of Scotland. Mr. Simon Beattie has also taken out an excellent Ayrshire cow from a noted dairy stock in the south of Scotland. The sheep have been selected with no less care, and include rains and gimmers from the flock of Mr. Walker, North Leech, Gloucestershire rams, shearling rams and gimmers from the well-known Leicester stocks of Messrs. Simpson, Sandys, and Barton, in Yorkshire, and of Mr. Beattie, New-The rams have been purchased at a cost of not less than £15 each. Indeed, it may be stated under this class, that the animals are of the best blood in the world; and it may also be observed that the different breeds cannot approach more closely towards excellence of form. The English breeders above named have longheld and enjoyed a high reputation for their sheep, and no less famed is Mr. Beattie, of New-The latter gentleman was, last year, the most successful competitor for Galloway cattle, and Leicester sheep, at the Highland Agricultural Society's Show, held at Dumfries, which was open to the world. Too much praise cannot be bestowed on Mr. Simon Beattie, of Markham, and on the other gentlemen who accompanied him, for their perseverence and enterprise. No expense was spared by them; and on this account they were enabled to visit and select from the stocks of the most eminent breeders in Great Britain. It is to be hoped, therefore, that the animals taken out with them will tend to improve the breed in America, and will maintain the high won fame and reputation which the breeders of them have deservedly attained in this country. CORRESPONDENT.

Annan, Scotland, April 20, 1861.

Judges and Competitors—The Provincial Exhibition.

EDITORS OF THE AGRICULTURIST:—The time is drawing near when the Judges will be appointed for the Provincial Exhibition to be held in London in the fall. The appointment of judges is an important matter. They ought to be men that know their duty and that will honestly perform it. One of your correspondents, in the No. of Agriculturist of 15th October last, says:—"I cannot refrain from making some remarks when I am hearing daily the bitter and numberless complaints of exhibitors.

at the late Provincial Show hald at Hamilton of the unjust decisions of inexperienced and incompetent judges." He thinks the only persons fit for judges are exhibitors—and at the same breath he says, "The judges permit and almost court the presence and interference of parties who are themselves exhibitors." And to such an extent is this carried that he himself has witnessed exhibitors accompanying the judges in the classes in which they were more immediately interested, particularly in stock, through the whole of the examination. It appears to me that judges and exhibitors are taried with the same stick, and all this knavery might have been prevented by having honest, intelligent, practical farmers at the head of our Agricultural Socicties. In more than one of our County Societies, the directors seek no further than among themseves, and although many of them don't know how to grow a rotation of crops, without a blush they assume the office of a judge in any class of animals, from a horse to a hen, even to animals that they never saw before, and, without knowing anything of their ment, make their remarks of approval or disapproval. The symzuetry of an animal is scarcely ever looked at, if they are big and fat it is all they care for; and there is no doubt if Barnum's woolly horse was shown among the Cotswolds he would get a prize or attract a recommendation. There is something very objectionable in the unfair manner in which sheep are shown; it is two months since shearing was begun in a neighboring county for the Provincial Show; all the shearing they get is a little taken off the top of the back; all round the sides, and below is never sheared; this is nothing but deception in order to increase their apparent bulk, and hide their deformities. They are fatted on grain and oilcake from the 1st January till the last of December. Both sheep and cattle of that stamp are unfit for breeding; and I know of more instances than one where the owners, after keeping them for a season, have been obliged to dispose of them without any lineage.

A FARMER.

On Tile Draining.

EDITORS AGRICULTUIST,—As the farmers in this section of the country are beginning to see the advantage of underdraining, perhaps you would be kind enough to inform us, through the Agriculturist, how Tiles are covered up in the ground, and whether straw or any other material is necessary?

So far as our knowledge extends there is not a tile laid in the ground east of Kingston.

Single underdrains have frequently been made in this locality, but stones have been the materiel altogether used for making the pipe; and in some instances small round atones have merely

been thrown in to form the drain. But it has always considered necessary to throw straw or brush on the stones, before filling in the earth.

Yours, &c., ANDREW WILSON Maitland, May 6th, 1861.

Where proper tools can be obtained the bot. tom of the drain can be cut of the exact width of the tile or pipe, which should be carefully put in on an even bottom, having a sufficient and uniform fall. In a heavy clay subsoil it is a good plan to cover the tile a few inches with brushwood straw or the lighter portions of the soil, which renders the earth contiguous to the drain more porous, and thus allows the water a quicker access to the drain. A few inches of gravel or small broken stones are excellent for this purpose, but in many situations such additions would materially increase the expense of the operation. In lighter soils it is advisable to core the tiles with the stiffer portions of the earth that has been thrown out. If the soil is very light and porous, it is of importance to dig the drain deep enough, if practicable to reach a stiffer stratum of the subsoil, and to cover it with the stiffest earth that can be obtained to the dehtp of several inches. In loose running sanda-the most expensive and difficult of all soils to drain the greatest care should be exercised, or the work will speedily fail. Where a stiffer soil carnot be reached, which always ought to be done if possible,-say within five or six feet,-a board should be laid at the bottom of the drain, and the pipes carefully laid upon it, and a few inches of soft clay closely trod upon and at the sides of them. The pipes or tiles should be made to fit each other at their joinings as much as possible. Indeed for running sands there is no safety but in having the pipes fit into each other or connected by collars, and protecting the joints by clay. If such precautions are not taken the sand will be sure to find its way sooner or later into the pipe and effect a partial, or, as is generally the case, a complete obstruction to the exit of the water. An inverted sod, eitherin stiff or light lands is a good covering for the drain. But in the sandy soils referred to day is an indispensable material.

Stones are a good material for constructing drains, when they can be readily procured and

the right kind. It requires care and experice to use them properly. Drains filled ten or elve inches with broken stones or gravel have a found effectual in some soils; but this ethod is not generally to be commended either the ground of economy or efficiency. Another or conduit is desirable, if not an indiscusable requisition, allowing the water a more adjectes, and renders the work both more durile and efficient. Drains formed of gravel or ken stones not only act slowly but are very bloto become silted up in a sandy soil, and recially when the inclination is small.

The cheapest and best material where suitable one cannot be got on the spot is unquestionly tiles, particularly that form designated the pe, which to be of good quality must be made good well-worked clay, thoroughly burnt, that it will have a metallic ring, when struck. tin remote places, where farms are still in a ugh and unfinished condition, very much may done in the way of temporary draining, by sking open ditches through the wettest places, If the state of th nd, &c. Such devices will be found servicefor many years, and will meet the wants of mers on new lands, till they obtain the means carrying out a more permanent and complete stem of draining.

Ploughing Match in Clarke.

Editor of Agriculturist .- I have been diand by the Board of Directors to send you notice, thinking that it may prove of some ist to our farmers. The Township of ke Agricultural Society held their Plough-Match last week, and awarded the following as in their several classes :-The Sweepstake, open to all classes of ploughs, лge Fountain. ls Prize for Iron or Wooden Scotch plough, 4) John Gallbraith. 20d do ďο ďο do -≋ Kenear. lst Prize Canadian Plough, (men.) William

th Prize, Any Plough but Iron, (boys under feas,) John Davie.

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the most important features in con-

a prize awarded to the ploughs of any makeof lightest draft; they were to turn a furrow of nine inches wide, and six inches deep. There are few farmers but what have an opinion of their own respecting the various qualifications of ploughs; but few, if we except the owners, were prepared to see the great differences existing in the draught of the various ploughs entered. It has opened the eyes of this communityand it should every other quarter—at all events to a class of ploughs which has been condemned by many, and yet who never tried them, as being more unwieldy and cumbersome, in fact Horse Killers, as they are frequently called. They appreciate them for their work, and yet condemn them for being too heavy. I refer to, the Iron Plough, which when of a proper kind, and a mon between the stilts who understands them, cannot, for work, be beaten by any other plough.

I give you the draught and kind of plough as

ander :—

No. 1. Iron Plough, imported, Barrow Mould Board, 375lbs.

No. 2. Wood Plough, made in this Township, Gray's Mould Board, 400lbs.

No. 3. Iron Plough, imported, Gray's Mould Board, 425lbs.

No. 4. Wood Plough, Canadian, Holten pat; tern 450lbs

No. 5. Wood Plough, Canadian, Scotch Canadian, 475lbs.

No. 6. Wood Plough, Canadian, Scotch Canadian 500lbs.

No. 7. Wood Plough, Canadian, Markham, 175lbs.

No. 8. Wood Plough, Canadian, Markham, 600lbs.

These were tested by a competent Committee, and a Dynamometer.

There was a very large attendance of people, the day being well suited for the occasion, and the ploughing was done in first-rate style. After the plough-men got through with their work they, together with the judges and Directors were invited to partake of a capital dinner, provided by Joseph Rickaby, Esq., in whose field the Ploughing was performed. After partaking of the good cheer, the company separated, every one being satisfied with the day's proceeding.

Yours, &c., E. A. McNaughton. Secretary.

Newcastle, May 8th, 1861.

The Royal Dublin Society's Spring Show.

The Spring Exhibition of this important Society was held as usual on its premises in Kildare Street, the beginning of April. The weather was unpropitions and the extensive improvements of the buildings and pens not thorough-

ly completed. Still the Show in point of numbers and quality was considered successful. The implement department was well filled, mo t of the English makers being represented. A new and capacious Hall has recently been erected and the society now possesses extensive and convenient premises for the purposes of the Show, as well as permanent offices, museum, etc., in the heart of the city. The live stock, on the whole, appears to have been large in quantity and excellent in quality. The Irish Farmer's Gazette, which ranks amongst the most influential and widely circulated agricultural journals of the United Kingdom, remarks:

From our spring shows, breeding animals have been sent to Australia and to America; and whilst English breeders of the highest eminence have drawn upon its sections for the fai-famed excellence of their heids, some animals which have stood under the glass covered arches in Kildare street are to be found even as far north as "John O'Gront's House." It is the reaction sale afforded for breeding stock which draws together such a number of superior animals as our spring shows exhibit in the Shorthorn sections, and not the intrinsic value of the prizes offered by the Society; and for this reason, therefore, we might as well expect Ballinasloe fair to change its site, as to think that the spring shows of the Royal Dublin Society should be held anywhere but in Kildare-street.

The plan of admitting the public from the moment when the judges commence operations, which was tried for the first time on Tuesday last, was found to give general satisfaction. There was a considerable number present even from an early hour, and as the best of the different sections were paraded, their several merits and demerits were closely criticised, and sometimes in a manner which told that public opinion did not go always with that of the judges. Of one thing, certainly, the public felt assured, that whatever might be the judges decisions, those were never given hurriedly. They were most painstaking in all they did, and we dare say several who were present on Tuesday went away not only fully satisfied that the public lie under very great obligations to gentlemen who acted as judges on such occasions, but also that being a judge at such shows is not the easy matter many, perhaps, imagined it to be. At the same time, we do not see any necessity for quietly endorsing every decision which may be made by those gentlemen, simply because they have willed it to be so.

The Gazette furnishes four excellently executed wood cuts of Shorthorns' which obtained first premiums, medals and challenge cups. The Marquis of Waterford's bull, "King of Hearts;" a two year old white heifer of Captain But county of Limerick, called "Nightingale," a yearling heifer, "Florentine," the propert of Mr. Abbey, of Tralee; and a roan but "Sonbadar," owned by Mr. Coppinger, of Caringtuchill. The latter was awarded not only the first prize in his section, but also the costy challenge cups of the Irish Farmers Gazett and the Irish Railway.

The prizes were distributed in the evening he the Lord Lieutenant, who on a vote of thatbeing passed spoke as follows:—

I feel very certain that those whom I have the pleasure to address do not need to be assured the real interest which I feel in the exhibition of this society, connected, as I conceive them be, with the advancing progress of Irish against ture (hear). I am only copying the exampler the Prime Minister of England, and, I have doubt anticipating the example of the Chancelle of the Exchequer, when he brings forward! approaching budget, when I make some illustry to the inclement character of the seasor through which we have recently passed (hear) True it is the spring, summer, autumn, and we ter have conformed to the usual law and cour of nature in the respective lengths of the night and days; but hail, rain, frost, and stom in appeared to occupy a joint preponderant throughout the whole of those seasons (her, Seldom, indeed, have these island shores ba more strewn with wrecks, and we have had. lament the loss—outweighing unnumbered a gosics—of brave human life (hear). But de culties and drawbacks seem to be the appoint schooling through which improved agriculta. as well as everything else that is sterling a valuable in our knowledge, is destined to sing gle, to emerge, and to thrive, (hear, hear, a cheers). And I think it may justly be said to the show in your yards this afternoon has give good proof that even the weather of last rehas not impaired the vigour, or the beauty, the lusty proportions of the Irish stock (cheen I think no one can have witnessed the exhibits of this day without feeling an increased confin. ation of the conviction which we must havelet entertained of the progressive character of In agriculture (hear, hear). The agricultural turns which are collected every year, while the show the material changes in various crops, & the general condition of agriculture, uniform exhibit a steady increase in the quantity. live stock. It is true that these returns, whi they tell us of quantity, are necessarily sile with respect to the quality. It is to general servation and to advancing prices that we may look for information in that particularly; such shows as those of Baker-street in Lond or in Kildare-street here, give the very best.

ortanities for this purpose, taken in conjunction th the circulating visits of the agricultural soeties through the various counties of the land. seems to me-and I wish we could have had ller testimony from those who could speak th authority on the subject—that the very thest excellence marked the exhibition to-day roughout its various departments, from the rdly bull down to the less grand but far more macious poultry (laughter and applause). 15 obvious that the increase of skill and the pheation of science to agriculture must tend make us more and more independent of ather. The increase of agricultural machen both enables us to save many crops, which accidents of a precarious climate would erwise only damage and destroy, and it furr enables us to improve our labourers in thods which call forth thought and develope II. And there is no one circumstance conand with the whole subject more important Imore gratifying than the certainty that the roduction of machinery, so far from injuring labouring classes, advances them in the le of society (hear, hear). To appeal to the st obvious test, the rate of their wages bughout this country already exhibits a very siderable increase. All the departments of iculture, you may depend upon it, hang toher, and in improving the whole we improve ry part of it, and also the condition of those o contribute to its respective branches. ealluded, gentlemen, to the return of agriural statistics, the possession of which places country in a much more advantageous posi-, so far as that is concerned, than the sister atries (and for them we are mainly indebted he wise foresight of my distinguished predesor, the Earl of Clarendon). But over and rethe numbering of our oxen, oar sheep, our ss, and our swine, we are all about to unso the process of being numbered—(a laugh) e diapason ended full in man." I believe agricultural returns contain particulars of the ctive ages of our yearlings and our twoolds: I understand that a scrupulous de-. of accuracy will be directed to ascertaining ages of our ladies (a laugh). However, tlemen, the census, when completed, will tell hat the exact number of our population is, also will enable us to infer with tolerable acy the extent of the emigration going on agst us. Now, I am not one of those who der with any uneasiness the general results migration. Of course, when exile from 218 occasioned by suffering and privation it be an object of regret to all well constitutinds; but considered in its broad results, I that while emigration fulfils the generstiny of our race, in peopling the whole at ordinarily will be found to improve the tion of those who go and of those who re-(hear, hear). It is possible that the aphing census to which I have referred may

exhibit some slight diminution of the population, but as the strength of an army does not depend so much on its mere numbers as on its discipline and its organization, so, depend on it, the good condition of a country results far less from its actual increase of numbers than from its command of the comforts of life, its industry, its intelligence, and its moral character. Well, gentlemen, I feel I am justified in heartily congrutulating the friends and promoters of Irish agricuture generally, and the members of the Royal Dublin Society specially, upon the exhibition of The members of this society bring this week. together the principal results, the industry, and the art of this country into close and immediate proximity, thus symbolizing the real independence and connection which they have with each other (hear, hear). Already, as Mr. Foct has intimated to you, upon your ample lawn here, which has so long been devoted to agricultural displays, and where the live stock, the implements, and the husbandry of the country in all its branches have now met in friendly rivalry already on one flank we see the fair length of the Museum of Natural History, and on the other flank there is approaching to its completion a corresponding building, destined to be a national gallery for painting and for sculpture. But I agree with Mr. Foot, that these last pursuits seem to require something placid and composed for their immediate framework. We have heard that there was a time when the flock strayed in the centre of the Roman forum, but that was before its pillared arcades became the centre of business and of worship. So I rejoice to know that it is sought to guard with additional sanctity the lawn of Leinster House, and there is a hope, to which I shall willingly give any efforts of my own to contribute—(loud cheers)—to provide a separate and still more convenient site for the general agricultural displays closely adjacent to the recently-constructed handsome covered hall (hear, hear). But whatever your own exertions, or whatever the help of the state may enable to be accomplished, you will still do well to remember that the real interests, and success, and glory of all such exhibitions consist in the intrinsic merits of what is exhibited; and I trust that all present on this occasion will often meet here to renew-I cannot venture to say to increase-the admiration which the exhibition of this week has now kindled (loud cheering).

Agriculture-Its Past, Present and Future.

Continued from page 271.

The Future of Agriculture—Steam.—It is impossible to overrate the enormous impetus given to every industrial, and, indeed, to every mental occupation, by the invention of steam power. Some of my views on this subject having been laready laid before you in my paper

read last year, I will not recapitulate them. To withdraw steam power from us would be to plunge this country into ignorance, poverty, and disorganization. Agriculture is only on the threshhold of the use of steam power. She has never cheapened her products, nor supplied the wants of her customers. It is no exaggeration to expect that every farm of 100 acres will give employment to four horses of steam power. When this takes place, a large area of land used to feed horses will be set free for the production of human food. I also venture to pre liet that great commercial companies will be formed, who will purchase estates, parcel them out with topographical economy, and connect them with the towns and cities, whose sewage they will economise. We shall then see our agricultural engines gliding along a line of rails from farm to farm and city to city, drawing the produce to market—cultivating the farm. To see the powmarket-cultivating the farm. erful monster drawn by four horses along the common road is an insult to mechanical common sense, and, could the engine speak, would receive his indignant condemnation. When the locomotive was invented, somebody found means to expind £300,000,000 to make a suitable road for it, and somebody will, some day, do the same for steam in agriculture. The future of Rritish agriculture may be said to rest upon the sufficient use of that cheap untiling power which has given such an enormous development to almost e cry branch of our national industry except agriculture. Steam, whether for cultivation or for the manipulations necessary in a well conducted homestead, for draining the swamps and irrigating the hills, and above all, for applying town sewage to our pastures, green crops, and root crops, will become the sheet anchor of British agriculture; and it is by this economy that the British farmer will be strengthened in his competition with other corn producing countries. That great man, Baron Lielig, has revealed to us the mysteries of our subsoil—that subsoil into which the British plough has never yet penetrated. His researches raise a doubt whether it is possible to manure the subsoil through the cultivated top soil; if so which I believe, how all important it must be to bring the manure, the air, and the subsoil into immediate contact and admixture with the surface soil. But, in any case, let us seek in our subsoil, by means of steam, that treasure which the old farmer told his son to dig for.

Public Companies for improving Agriculture.—Assuming and believing that great and comprehensive improvements in agriculture will originate with public companies, I prognosticate that a combined system of irrigation—town sewage irrigation—and railroad transit must form an important feature of any great district operation. The principles of drainage, steam cultivation, covered buildings, steam machinery, &c., so well understood by our agricultural engineers

and surveyors, would naturally form a portra of every such improvement. "But," Ead 1 farming friend of mine, as we discussed the question of connecting farms and towns of rel "how can you expect to do this? Mr. 50-25! so would not listen to such a proposition, as his landlord would not like his farm altered and cut about." I reply there is no cure for preparation like a public company and an Act of Parisional Parision of the company and an Act of of the company and an ment. At this very moment regardless of affer tions and prejudices in favour of old residences and old customs, our new Railway Company are, by Acts of Parliament, levelling which streets, and blocks of houses, overlapping, and mining, destroying and reconstructing, with har Iheartedness yet unknown to British and holders, and British tenants. I hope the tree is fast approaching when great associated co panies of city merchants and rich agriculturawill expend enormous sums in the purchase as reconstruction of estates, making them subsevient to the one grand object of an economic use of steam power for almost every farmer operation, including sewage irrigation. Is shall then not have the modification to her that it is possible to carry coals at three farb ings a ton per mile, at 20 miles per hour or railway (farmed at enormous cost, and still on ing Consols interest to its shareholders), whi our farm produce on the common road costs Sd. per mile, and crawls along at a snall's par When estates and farmeries have been win proved by public companies, farmers will t found willing to pay a double or a tripled rent. provided they see that such increased rent on represents a fair interest on the necessary import ments; and such estates, or portions of the would readily find purchasers. We all hot that farmers like to hold under public bot (such as Charities, &c.), because their tenue; more secure, and they are more free from pe sonal or political interference or caprice the when holding under a single individual. I has no doubt that Parliament will some day? facilitate the registration and transference exchange of lands, that public companies as be found to deal with land improvements. . seems odd that, while hundreds of millions: capital flow into almost every other channels British or foreign, agriculture has not be dealt with, except lately, on a limited but be ficial scale, by the "Land Drainage" and "Le Improvement" Companies. When I sugge public companies, I mean that they should a on a large scale and with immense resource that which it would be impossible for individu to accomplish, and having made all necessarimprovements, sell or let the various farms. improved.

Land Drainage.—It would be an insultible in this Club to enter into details on this now in understood subject. Its influence on the quality of the food of the peop.

over a large area enormous; but still nonainage is the rule, and drainage the excep-In this respect there is a grand future for moltural improvement. Land drainage was ectised in Essex and Suffolk one hundred and enty years ago, on ard chalky clays, and red or friable soils, and no doubt greatly inassed the produce and reputation of those unlies as grain producers. Strange however, say, it is hard to make farmers believe that in tenacious (birdlime-like) collapsing clays, inage is of any use, and there is consequently enormous extent of such soils undrained in sex and elsewhere. It is easy to understand this prejudice arose from the impossiblity using with advantage in such soils bushes or ar, the only draining materials formerly in these butter-like soils collapsing and stop-2 such drains; but now that we have tileries making pipes or tubes, no such danger need apprehended, and I hope our friends will soon e up their prejudices, and so fill their pock-Honourable mention should be made of names of Elkington, Smith of Deanston, iah Parkes, Bailey Denton, and Clutterbuck, connexion with the science of this art. Scot-d was seventy years behind Essex and Suffolk his matter of drainage, but then our Scotch add it in earnest, and have connected with eep cultivation and subsoil cultivation, and his, respect are in advance f English agriculsts. Scotland owes to James Smith, of Dean-, her drainage and deeper cultivation, and carly appreciation of town sewage. I had pleasure to know this useful man, and his is agreed with my own, that we were still on the threshold of agricultural perfection. liter Reform, so ably discanted on by Mr. algernon Clarke, will surely soon make its In former times, when our daily bread ended on the action of our watermills, the was strained in favor of the miller, who may aid to have occasionally, and not unfrequentsed the adjoining lands as reservoirs of water the river to the ruin or injury of said s: but now that mighty steam has insured s, at all seasons, a comfortable loaf, a change sing place, and the Judges have recently, most important issue, ruled that the unseen rin the land is the property of the lander, and that even if sinking wells and using water should dry up a river by diverting terraneously its waters, no action would lie.

ditches, or rivulets leading to a riv.;
however, be still respected. This decision tlead to most important results, enabling owners to dry or lower the level of the water eir soil, and use it for irrigation if desirable.

cant-Right and Leases.—The history of test shows that the former violent fluctations has a bar to security of tenure by lease: no lord or tenant believed in an average of s. Without going into the question of

Free Trade, our Tithe Commutation Act has afforded us something like an approximation of averages over a given period. Let us hope that the words "average 56s. per quarter for wheats' may give confidence in leases: it is certain that without leases no tenant will invest his capital in impressments, unless secured a tenant-right for such investments. The Scotch 19 years' lease appears to ensure a good improving tenantry, and a large increase of rental at the end of the term. In Essex, a man without a lease may expend £20 an acre in drainage, chalking, and other improvement, and if he dies, and the farm be given up, not a shilling of it would come to his executors.

The Labour Question.—Labour is silently, but surely, slipping away from agriculture to eae better food and higher pay of other industrial occupations. The parliamentary and excursion trains have provided a quick and cheap transit, and so have our coasting steamers. The new implemental requirements of agriculture, both British and foreign, have absorbed many a farm labourer: and the almost unobserved but regular trans-mission of the same class to distant colonies, by the Linigration Commissioners, also tells upon the farmer's labour store. well for the country, for necessity is the mother of invention; and agriculture may be more readily impelled by need than by persuasion to resort to that mighty power which has enriched our manufacturers. Experience has taught us that, as farm labourers come in contact with manufacturing towns or cities, they can only be retained on the farm by an increase of wages; our southern and non-manufacturing districts will not, therefore, long retain cheap labourers, especially now that the penny press ma's them acquainted with the money advantages of an employment elsewhere.

The Labourer's Condition and Cottage.— The labourer being the most important tool in agriculture, it is desirable that he should be sharp and well polished as well as strong. has not hitherto been sufficiently attended to, but it must very soon be. The schools now gradually erecting will enable the rising generaation to read the instructions for cleansing, repairing, and managing the steam engines wnich agriculture must put up. They will also be able to read their Bible and their penny newspapers; probably hereafter they may be not thought unworthy of local libraries and literary institutions, also baths and washinghouses. The extension or abolition of the law of settlement will destroy the old selfish and unfeeling practice of foisting on your neighbour, in his old age or affliction, the man whose labours, in his youthful vigour, The landlords are contributed to your wealth. beginning to believe that the indecent propinquity of crowded bed-rooms, added to the evil sanitary results of insufficient house room; tell indirectly, but most unfavourably, on their pecuniary interests. The profit from good labourers' cottages must always be, in some degree, indirect.

Meat making.—Future advances in agriculture will, I venture to predict, be based upon and identified with the production of a much larger acreable quantity of meat than we at presant produce. The constant increasing prices of meat plainly testify that demand is exceeding supply, and that foreign nations cannot make up the deficiency. Our acreable area being limited by the ocean, the only means of doing this must be the extensive use of purchased food and manures, and by the economy of the sewage of our towns. The consequence of this improved system will be felt in our grain crops; for the more meat you produce, the more manure you make, and, consequently, the more corn per acre you will grow on the arable portion. This production of more meat will necessitate a better knowledge of the mode of producing it, Laving regard to a profitable result.

The future Character of Farm Residences and Farmeries.—It is notorious that if you are to have for your tenants men of capital and intelligence, their residences must be suitable to their intelligence and means. I know practically, and it is notorious, that on many of our large south councy farms the residences are totally unfit for such a class of men; who, I believe, would willingly pay an increased rental for such necessary accommodation. The landlords of such farmers are therefore obliged to put up with men of inferior capital and intelligence. Surely a farmer of 700 acres, with a capital of £10,000, should not be lest favourably housed than a merchant or a trader.

"Burn your clay into Brickdust," will be a motto with every heavy land farmer. I know one who for years has continued burning a clay hill. It provides him with healthy bedding for his stock, and with alkalies for his root crops. It permits him to consume his straw in food, instead of wasting it under foot. It renders his land friable and more economical to work; and it has thus largely increased his green crops and profits. This is also my experience in the reatter.

With regard to our Homesteads and Farmeries.—The time will come when we shall see them like factories and railway stations, warmed in cold weather, lighted with gas; the manure well cared for, unwashed, and with its full powers preserved. These things are all necessary to the cheap and abundant production of meat and bread for the British people. It is of no use to cry out, Where is the capital to come from? It will be found as it has been found, when the requirements of the times and the increasing intelligence of landlords and farmers shall have given the subject due consideration. Let the system be introduced by those who are able and willing, and let it be found to be profit

able, and the rising generation will grow q with its acceptance, free from the double a disbeliefs of their forefathers, who had not be practical evidence of its advantages.

In conclusion, it is a great mistake to support that farmers are naturally more prejudiced that other men. It must be remembered that it is been their misfortune, and not their fault, the the difficulty of intercourse prevented those a aminations and comparisons which the range and literature of recent times have perman them to make. That there exists a most cred able desire to avail of such opportunities ! been abundantly proved by their overshear attendance at the great annual and other exam tions of stock and machinery. My object? reading this paper has been, not to find her but to stimulate. I know the difficulties of ag culture: I know that we cannot control t seasons; but we may, by improvements, so m derate their ill effects as to avoid those fame and sufferings which, in less favoured time, flicted this happy country. For the future agriculture assume more of the manufacture character; and let the question be, not what costs, but what it will pay, to effect agricult improvement.

Effect of Grass on Colts.

When horses are turned out to gross int spring of the year, the succulent nature of t food causes them to purge, often to a greate tent; this is considered by many persons are desirable event—a great misconception. I herbage is over charged with moisture and a of a crude, acrimonious nature, to such and tent that all cannot be taken up by the og. destined for the secretion of urine, or by the. sorbent vessels of the body; the superfluous fi therefore, passes off through the intestions the indigestible particles of food, and that watery faces are thrown off. Flatulent cla or grips is a frequent attendant. The system deranged; but the mischiaf does not temin here. If the purging is continued a const tional relaxation of the bowels is establish very debilitating to the animal, and often d I am so decidedly opposed cult to con'rol unrestricted allowance of luxuriant grant horses at any age, that nothing could induce to give it to them. After the second year, should form a considerable portion of the d food in summer, to every animal intended hunting or riding

If a horse is supported entirely upon these, which he collects in a rich pasture field, or on that which may be cut and carried to in paddock, he must consume a much grebulk than of hay in an equivalent time, to ford nourishment to the system—Grass wery full of sap and moisture, it is very fill digested, consequently the horse must be

qually eating it. This distends the stomach db wels, and the faculty of digestion is imired for the digestive powers require rest well as other organs of the body, if they a to be preserved in perfect condition. e custom of grizing, the moscular system is feebled, and fat is substituted. This may espe the notice of the sup rficial observers, who not mark the distinction between the aparence of a fat and mascular animal, who conire so that the bones are covered, and the ints are rounded, all that is requisite has been ained But that is a very feliacious impresa. Let a y person who is skeptical on this intride a hor-e in the summer who has just sen taken from grass, along with another kept hay and corn, at the moderate rate of seven eight miles an hour; the grass-fed horse will eat profusely, while the other will be perfectdry. This proves that the one eating grass erbounds with fat and those portions of the nod which are destined to form that deposite. Those who will advocate grazing will no obtexclaim, "Oh, this is a test of condition, ich is not required in young and growing ani-Als" I beg to state that it is highly important. herene of condition is to be attained by imals of mature age, that the growth and dual developement of their frames should be mposed of those healthy and vigorous eleots upon which the structure of future conion can be rai ed. Animal substances are. a very great extent, subservient to the nature quality of the food with which the individ site (ourished. I believe farmers would lit much to their advantage if they were to sider the subject with reference to feeding ile and sheep, so that they might select those ds of food which about d with propertiere conducive to the production of firsh than There is no kind of food which the horse mmes which has not a tendency to deposit It is a substance which must exist to a tain extent; but as it is muscular power, not edisposition to adipose roundity, which ences the value of the animal, the reasons are ious what guide should be taken in the se ion of food.

have on a former occasion hinted the proty of bruising the oats, and I will now state
reasons for so doing. The first I will menis economy. Three bushels of oats which
t undergone that process are equivalent to
which have not, and the animals that conthem derive greater benefit. Various
them derive greater benefit. Various
mes and adopted to induce horses to mustitheir corn, all of which are ineffectual.
Heing them thinly over the surface of a
ious manuer, mixing a handful of cut straw
teach feed, and such 1 ke devices, will not
the the animal to the performance of mustithe animal the the thirty of the the thirty of the the thirty of the thirty of the the thirty of thirty of thirty of the thirty of the thirty of the thirty of the thirty

ger. will soon learn to drive it into a heap with with his nose, and collect as much with his lips as he thinks fit before he begins to musticate.— Whatever food enters the stomach of any animal, and passes away in an indigested form, may he considered as so much dross or extraneous maatter, which, not having afforded nutriment, is prejudical to the creature which co sum dit. A mistaken notion of economy is often the incentive to turning hors s out in summer, to be entirely dependent upon gress for their support. A few remarks will surely dispel that error. Twenty two bushels of onts—allowing one bushel per we k from the 15th of May to the 16th of October-may be taken as the produce of half an acre of land, and half a ton of hay that of another half acre, although a ton and a half per acre is not more than an average crop. It requires at least an acre of grass land to support a horse during the period above named.—Mark Lane Express.

The Yellow Lupin—A New Fooder.

Every one knows the yellow lupin as a garden flower. It is possible that many may not know its uses as an agricultural plant. The Germans and French farmers are loud in its praises. will g ow in almost any soil, and the poorer the soil, seemingly, the better the crop. It requires If the subsoil deep ploughing, but ro manure. is thrown to the top of the furrow, it is no mat-The roots plunge themselves deep into the earth; the plant grows and may be used as green food for sheep, and the seeds after they have ripened, may be used in cases where bran or pollard is given. This is not a crop for rich, but for poor lands, which will grow nothing else. I' grows well on dones and sandy soils, accordieg to the reports. On the waste lands of Pomerania pines have been planted for many y ars, with the expectation of profit. No one buys the pines, and the proprietors, driven to their wits' end to make the soil profitable, in a happy hour were made acquainted with the yellow lupin. In Prussia the cultivation of the yellow lupin, according to the account of Victor Borie, has brought abundance and joy into regions where formerly there reigned only misery. "Thanks to this modest and generous plant, bad lands had become good, deser's have been populated, and the wretched proprietors of sandy, barren soils, who funcied themselves abandored by man and God, have been obliged to confess that their cruellest enemy is ignorance." The vellow lupin is the Lupinus luteus of Linnaus. Its external character must be known to almost every one. It answers all the purposes of green fodder for cattle a d horses, and yields a useful erop of seeds besides. For the green crop, the Prussian and French sow in June; for the grain or legumes, in May. The soil must be

ploughed deep; the grains are scattered, much as for a bean crop; a harrow passed over the field and the tillage is accomplished. English farmer should try the experiment on lands just reclaimed, or on lands upon which he has in vain endeavoured to grow an ear of wheat or a homely potato. The account we have been reading says :- The lupin grows anywhere in bad as well as in good seils: but it always seems to agree best in sand, and in soils which are of little worth, and where the subsoil is, for agricultural purposes useless." Experience seems to show that it is be ter to allow the crop to ripen. On this point we have no practical knowledge. When the lupins are dry, the sheep eat all-stems, seeds, and husks. Four or five quarts of grain are given with a feed of oats to a horse; for cows, three or four quarts of grain steeped, or sufficiently bruised. Prussian declares that if he had to choose between lupius and potatoes as a productive crop on the barren soil of Prussia, he would be at a loss which to choose. The lupins are worthy of an experiment. The Germans say, "Work for the butcher and you will find the baker at your doors.' The French say, " More the hay more the bread." The lupins are excellent fodder; fodder makes the beasts; beasts make manure; manure grows corn.

[The above is copied from The Field, and the Irish Farmers' Gazette remarks that the Lupin is a very suitable plant for ploughing under as a green manure. It would be well worth trying on our poor sandy and worn out lands for this purpose.—Ed. C. A.

New Zealand.

[CAPTAIN II. D. TWOHY, for many years connected with the Royal Mail line of steamers on Lake Ontario, left this Province last summer for New Zealand. As he was widely known and as highly respected, we think the following copious extract from a letter of his, addressed to the Rev. S. Givens, Yorkville, and published in the Leader newspaper a few days since, will be interesting to many of our readers. Ed'r.]

"I must now give you some account of our journey, or rather voyage. We left Quebec on July 7th, had a narrow escape in the straits of Belleisle from shipwreck, and arrived in Liverpool on the 19th. We were disappointed in getting a ship for New Zealand direct; but God was kind to us in throwing us in the way of a ship of 1,300 tons, bound for Melbourne, the Captain of which, who, if not all we could wish, was perhaps better than most ship-masters of his class; his kindness and consideration greatly re-

lieved the tedium of a passage of 99 days. To had only ten passengers in the ship, which was piece of good fortune not to be obtained in a ery ship, they mostly carrying from 500 to 10 souls. We had no bad weather, sickness e casualty of any kind; our health was greating proved by the voyage when we arrived at We bourne; our baby doing the best of all. It country of Victoria, from the harbon, is g prepossessing. Some people from Ireland sp tears on seeing their future home; -a dull, see bre foliage, interspersed with sand hills, bute city is a wonder of progress; the main sim seems about 20 feet wider than those of Tone to, and I saw more stone sidewalks than aline towns in Upper Canada could show collective One Bank, in the Corinthian style, surpess every thing I had seen in America. A Metdist meeting house, in the Gothic style, care every church in Toronto, with the exception St. James's. Every thing appeared more fire ed and complete than in American cities. the wharf were 20 ships, varying from 1,000 2,000 tons, discharging at the railway that la Every thing : to the city, three miles off. pears solid, substantial and costly; but . cease to wonder when we read they expos £60,000,000, in gold in the previous six year We found every thing cheap but boathire; thing as cheap as in Liverpool. We tranship to the Mermaid, 800 tons, and after a passage thirteen days, arrived in Aucland, New Zeale The appearance of every thing here is in gr contrast to Victoria and Melbourne; the com is delightful to look at for those who love. picturesque.

A noble harbor, sentineled by mountains is out of the sea, ranges east and west; on south side of which the town is built over it.

hills and ravines like Port Hope.

Up through the centre ravine passes Qu (the main) street, having all the appearance Toronto thirty years since; very few brickle ses, the stores small, mean in appearance, so in stock, no pretensions to wealth; the fa stores called the Canadian Block, are 2 twost houses, with pia e glass windows, built by at from Montreal. Auctions in the streets at every day, no side-walks, no gas, no cals, police, no direct taxes, very little crime; a one complaining of the dull times and h ing for the arryal of more troops to put & the Maoris war; with a good commissariat penditure, electioneering going on the cabusing the ins, with all sorts of plans making every one rich; embryo raib schemes for a white population estimated year at 72,000 souls, scattered over islands tending eight or nine hundred miles. From top of Mount Eden, an extinct volcano, 500. high, about a mile from the town, you gets. view of the country, and can count about extinct volcanoes within as many miles. L. ing no forests to clear, the country looksdell

ful, but the gathering of stones has been quite a labour to them in the neighborhood of the mounada. The roads for eight miles out of town are ! equal to the road between Napanee and Kingston; the scoria ash, obtained from the mountains, makes excellent metal, ready broken, and resembles blacksmiths' cinders. When you get away from the stone fences, in many places fast covering up with ivy, both native and European, rou find hawthorn hedges, in some places ten feet high, interspersed with the multiflowering rose; this with the furze or gorse is the prevailing hedge or fence; posts and rails are exceptions, The road-side was so filled with clover, and sain foin (a grass very plentiful here) in a walk I took of eight miles, that 1,000 cattle might have been pastured on it, and well fed too. In fact the country is such that every Englishman feels at home here; the roads are so smooth and the scenery so charming that you meet numbers of ladies on horseback-the pleasure of riding being enhanced by having no tolls to pay. No gates are erected and the roads have been ade from the public or general revenue. be cattle have a sleek, healthy appearance. I are not seen a lean beast since I came here. fattle raising seems a favorite employment; you ay count hundreds of cattle during a walk, yet eef is 7d. per lb. and milk 5d. per quart; butter s. 3d. per lb. For money merchandize is very bean. We have not drawn our land as yet; he best land is near the seat of war; but it will ot do to go there. The natives are quite nuerous in the town, but they belong to friendly ribes, and are dressed in all costumes, from the lerical gentleman with white neck-cloth and lack coat to the lady with hat and feathers and oops, down to the savage in his blanket or even They are fast declining and cantier attire. ast soon disappear from here; they have been poiled and pampered by missionaries of all arches and by the government; but were they e noble race they have been reported they ould not be walking the streets wrapped in a lanket, while 56,000 of them own 30,000,000 as of this fine country. The great distance om Europe and America of this colony, coup-I with the expense of getting here, has saved Jem from being swamped; but in less than 20 ears they will be but a mere fraction of the upulation.

A number of people in Toronto desired me to them know what the character of the counwas; what prospect it afforded to those who ere desirous of leaving Canada to seek employent. Should you be asked you can say that ose who come here at present must be preparto bring their employment with them, in the me of money enough to keep them on the d they draw, two years before they get a crop. om all I have observed it is a land of more -res than fruit, more grass than grain, more

herds than flocks. The land is not so fertile as in Canada, but the wants of life are fewer, and tain. There are more good stone fences in the | every one experiences the invigorating influence neighborhood of Aucland than in all Upper Can- of the climate. I could wish that all faithful subjects of Her Majesty who cannot live in Canada would make this their home rather than go to the United States. Here they would be exempt from ague, noxious animals and the demoralizing influence of that land of liberty. visited the bush for a short time one day; the sight was quite novel to me, who had been a good deal in tropical countries. The fern tree growing 20 feet high and then projecting its long feather-likebranches at right angles, like the bones of an umbrella. The gickan, a palm-tree with branches, growing like the arches of a Gothic Church. The scarlet ralla, a tree as large as the largest oak, bearing scarlet flowers in profusion, with the kauri pine and the supple jack, were the most striking objects, whilst some of the smaller objects were no less beauti-The most striking objects of the feathered creation were the ghes or parson birds, almost as large as a pigeon, with glistening raven plumage and two patches of white in the front of the neck, very active and imitating all sounds. All the water taken from the well in Aucland in localities exempt from social impurities has a very pleasant taste, and is verp soft for washing clothes.

Pine wood is very dear, 9s. per 40 cubic feet; coal £1 14s. per ton; bread 10d. the 4-lb. loaf; potatoes 1s. 7d. per bushel. We pay 10s. a week for a cottage of four rooms and kitchen; no taxes. The churches are in general all inferior to those in Toronto. We worship in a school-house that holds 450 people. The church is not yet built; it is to be called St. Matthew's. We heard Bishop Selwyn preach there. He officiates once a month, and sends a clergyman, Mr. Jones, to the country that day. Had we never heard the character of his Lordship, he gave us ample proof of the calibre of his mind in the continual flow of words, breathing zeal, power, humility and love with a look that at once commanded veneration and affection.

An Hour in a Pork Packing House.

Yesterday morning we spent an hour in the packing house of Messrs. Flint & Stearns, on South Clark street, near Twelfth. It is not generally understood to how great an extent the pork packing husiness has entered into the trade and capital of Chicago. There are several of these houses in this city and its environs, employing an immense capital.

This being the case, these who know nothing of the modus operandi by which one packing house can dispose of a thousand hogs in a day, will doubtless he pleased to accompany us in our savory visit.

Upon the outside of a large and substantial

brick building, the eye discovers a winding track, leading from the hog yard to the up, or part of the building Up this inclined plane a stream of live hogs are 'azily groping their way. Arriving at the top they enter the slaughter housea pen ten or fifteen feet square. In this stands a man swinging with his muscular arms a ponderous sledge-hammer. At each blow a hog falls senseless. Two men armed with hog knives follow him and fi ish the work of butchery by severing the arteries of the neck. This done, the poor hog is slid through a trap door into a vat of scalding wat r, kept constantly at almost b iling heat by steam pipes passing through the bottom.

The hog is flo t:d along to the opposite end of the tank, where a pair of tongs, (what else shad I call them) operated by a lever, picks him up at d denosits him upon a table, upon each side of which is arranged a long row of men, (scrapers), who turn out the heg at the far end of the table in a state of nudity. There are not far from 25 of these scrapers, not one of whom is idle for a single moment. As soon as a hog emerges from the vat, the one that preceded him is pas ed to the next scraper, continuing his journey from one end to another as each succes-

sive porker follows after.

At the end of the table he is suspended up in a revolving crase. A pailfull of water dex erously applied, gives his carcase a sleek and cleanly appearance. Meanwhile he swings around in front of a savage look ng man, armed with a terrible knife, s'eeves rolled up to his shoulders, and besmeared with blood from head to foot. At one sweep of that knife the hog is opened and the inwards removed. Another paintal of water prepares the carcose for the cutting block. A truck, having projecting arms, is then trun-dled up to the crane, and by simply raising the hands, the person in charge receives the carcase upon the extreme end of the arms, and it is then easily transferred to the hooks, where it is lef. to cool.

This entire operation is so simple and yet so complete, that not a hand touches his porkship during the operation of being transferred. T'e hogs are usually allowed to cool off during the night, when they are taken to the cutting block, where two me: with cleavers proceed to pr pare them for salving down. Fourteen blows generally suffice for each hog, when the several parts are thrown into a hopper, and passed through the floor to the next story below, where the packers and salters put the pork in barrels, and the coopers finish the job by heading them up. After the park has had time to settle and dry, the brine is poured in from a vat in which it is manufactured.

The packing season usually lasts about three months. Since the commencement of the present season, about the middle of November, Messrs. Flint & Stearns have killed and packed !

about 13,000 hogs. The average Let weight d these have been 230 lbs., an increase of 100 lt. per head upon the average of last year.

About 75 men are employed in this establish. medt at from one to three dollars per day. Chicago Times, Dec 1860.

THE EASTERN PROLIFIC CORN.—The seed of the "Lastern Prolific Corn," a name whahl gave it, originated, I believe, in Maine, and was first known to me about two years since as though some farmers in this vicinity claimed to have raised the same kind a number of years, and obtained much larger crops than I have been able to do, thus far. Last season I raised on Elm farm, Berkley, Mass., a little more than eighty bushels of good sound corn per acre. My corn land is what would be termed plain, level and of a light, sandy loam. I plowed thorough ly ten or twelve inches deep with "Birth, Patent Iron Beam Plow," used five loads of the compost, and twelve bushels of ashes per ace -the ashes being used at weeding time. Plant ed in hills about three and a half feet aparteal way, in May, 16th and 15th, putting two cords of manure in the hill. I allowed five stalls to each hill, perhaps four would have done better, cultivated both ways, and hoed about the middle of last June, and subsequently a third time, without plowing. Cut and stacked the comits first part of September, and allowed it to remain in the field for some five weeks. The value of the crop per acre was:

The expense of cultivation was for 5 cords of manure on land.....\$40,00 D. S. DICKERMAN. Taunton, 1861.

-New England Farmer.

Artificial Guano.

A desire to obtain an artificial guano, equi to that of Peru, and at a moderate cost, be long been manifested. We take the following article from a recent number of the Scienty. American. It is from the pen of Dr. G. J. Gesner, F. G. S., of Nova Scotia, who is well known for his scientific researches in chemist and geology as applied to the agricultural n sources of our Eastern Provinces. Mr. Brot of Montreal, has manufactured a manure from the fish-offal of the Gulf of St. Lawrence, mi.

A with mimeral matters, that is a very valuable and powerful fertilizer. We hope to hear more of this soon.

Guano, so valuable a fertilizer, is chiefly com - sed of the excrements of sea fowls. nently it contains feathers, bones of fishes, hu-E, &c. It is very variable in composition, a ircumstance that has been ascribed to the diferent kinds of foods upon which the birds substed. Some guanos contain upwards of 25 er cent. of uric acid, in others that acid is alost entirely absent, and it is the same in reand to other acids, salts and alkalies. onia usually enters largely into the best qualiies of this fertilizer, and the presence of its cargrate is known by its odor. The oxalate, rate and phosphate of ammonia and magnesia re almost arways present with the phosphates f soda and lime, the phosphates having been gived from the bones of the fish upon which he birds fed. In the supply of ammonia and of orthy and alkaline salts, guano is of the greattvalue for plants cultivated for food. 10d of the birds from which the guano had en deposited has been certain fish that fed pon other fish, the food of which was marine lants, or animalcula. The origin of this fertiter is therefore found in marine plants and ani-

The writer has obtained a product analagous the true guano, and one nearly, if not quite, equal its value for fertilizing purposes. Chemical ad mechanical means have been applied to the arine fuci and fishes and fish offal until an arfinal guano has been obtained. The sources f the alkaline carbonate, chloride of sodium dorganic matter have been found in marine lants, the phosphates and carbonates of lime dammonia in the bones and flesh of fishes, dafter many experiments carefully performthey have been combined so as to form a map and portable manure. At Long Island, the State of New York, menhaden are manudured into manure: the oil, which is very ofnsive, being extracted from the fish and emloyed for common purposes.

llaving visited a great number of the fishing tablishments of the Provinces of New Brunsick, Nova Scotia, Newfoundland and the lands and coasts of the Gulf of St. Lawrence Alabrador, the writer obtained a knowledge the vast quantity of fish and flesh offal annuly thrown into the sea, or otherwise lost to very useful purpose. The garbage thrown reboard yearly from vessels fishing on the asks of Newfoundland, if properly preserved d manufactured with the annual growth of sea ceds upon the shore, would fertilize the entire livated surface of the Eastern States and hish Provinces; still the amount of animal after thus referred to is far less than that proceed by the inshore fisheries.

To the foregoing may be added the enormous

quantities of mytili and other shellfish growing upon the shore, and which are not less applicable for the manufacture of artificial guano, than the offal of the finny tribes. At many places on the shores, fish are met with in such abundance that they are employed by the fishermen to manure the small patches of ground some of them cultivate. At the principal fishing stations, the refuse garbage and bones alone would supply a manufactory, and with good management and the use of kelp, the offal may be transported from place to place without inconvenience. Like the bones of terre-trial animals, the inorganic matter or ash of the bones of fishes consists in the greater part of the phosphates of lime, or bone phosphate, with carbonate of lime, the fertilizing properties of which are well understood. Few soils preserve their fertility for any length of time. Every crop removes from the earth certain elements, which it is the business of the farmer to restore, and for that purpose no manure is better adapted than guano, either natural or artificial.

Peruvian Guano.

In connection with the above the following article, from the Irish Country Gentleman, will be found interesting. Guano has for a few years past been used in Canada, on a small scale, by our more enterprising farmers, chiefly in the raising of root crops, with satisfactory results. Peruvian Guano comes very expensive; it is in fact a monopoly. The government of Peru fix the price of it, and farm it out to a great company, who charge from \$40 to \$50 a ton. This has occasioned great discontent, among British farmers especially. Guano should never be allowed to come in contact with the seed, and is best applied mixed with dry soil. It requires moisture to bring it into action; hence its effects on vegetation in warm, showery weather are truly astonishing: ---

"Peruvian guano is the most concentrated manure with which we are acquainted; and, under certain circumstances, it exceeds all other substances in its fertilizing influences. A manure is valuable in proportion to the amount which it contains of three substances—ammonia, phosphate of lime. and alkaline salts (compounds of potash and soda with acids). The portions of these ingredients present in farmyard manure are shown in the following figures, and are the average results of several analyses made by ourselves:—

100 PARTS OF FARMYARD MANURE CONTAIN: -

| Ammonia | 0.450 |
|-------------------|-------|
| Phosphate of lime | 1.750 |
| Alkaline salts | 1.300 |

The great superiority of guano over farmyard manure will be seen from the following statement, which gives the average results of several hundred analysis of this substance, made by us during the last six years:—

 100 PARTS OF PERUVIAN GUANO CONTAIN:

 Ammonia
 16

 Phosphate of lime
 22

 Alkalme salts
 9

The use of guano, as a manure, was long known to the Peruvians, and so highly was the article valued, that the *Incas*, the ancient rulers of Peru, at one time attached the penalty of death to the offence of killing the 'manufacturers' of the article—the sea fowl that haunted the coast.

Sir Humphrey Davy was the first who sugrested the employment of guano in British husgested the employment of guano in British husbandry. This was in the year 1810; but the distinguished chemist's advice was not acted upon till thirty years afterwards. In 1840, a small quantity of the article was imported by Mr. Meyers, of Liverpool, which, on being applied as a fertilizer, produced such wonderful results that in the following year the large quantity was imported was readily bought up tity which was imported was readily bought up, and ever since, the annual demand for guano in Britain has only been satisfied by the enormous supply of from 200,000 to 300,000 tons. great demand for this curious substance induced enterp ising merchants to explore other regions than Peru in search of a similar commodity, and with considerable success, as guano is now imported in large quantities from various countries. With scarcely an exception, the guano found in every locality, except on Chincha islands, the other places along the coast of Peru, contains but a small proportion of ammonia in relation to the amount of lime; and, as it is an established fact that certain crops requires more than others do, an abundant supply of phosphate of lime, it is very desirable that the farmer should know the composition of the various kinds of guano, in order that he may apply the most suitable kind to his crops, as the time for purchasing artificial manures is rapidly approaching."

The Culture of Tares.

EDITORS OF THE AGRICULTURIST.—As you invite those who have had any practical experience in the culture of tares to send you the result of it, I take great pleasure in communicating to you the following—considering the circumstances of the case—satisfactory trial of them.

Having for some time resolved to sow a small quantity of land with tares, as an experiment, I procured from Mr. Fleming, Toronto, a peck of seed, and, on the 16th May, I sowed it on a quarter of an acre. The land was ploughed, and well manured in the fall, and thoroughly

cultivated in the spring. Shortly after the came into pod, I cut them, and found, who cured, there was at least three quarters of a tea. It made excellent fodder; in fact the horse, cattle, and sheep devoured it with avidity. He the seed been sown at the proper season I am confident there would have been twice the quantity; but, as it was, before the tares had grown enough to cover and shade the ground, the weather came very dry, and scorched the land, so that, at one time, I thought they would prove a total failure—a few showers, howere, settled that point.

A SUBSCRIEGE.

London, April 1861.

Agricultural Intelligence.

Spring Shows to take place.

Yonge Street Agricultural Society, at Rich mondhill, May 23rd.

Niagara Electoral Division Society, at Niagara, June 27th.

Kingston Electoral Division Society, at Kingston, July 3rd.

On the Care of Live Stock,

The following paper was read by a young farmer, Mr. J. M. Joness, at a recent meeting of the West Durham Farmers' Club:—

MR. PRESIDENT AND GENTLEMEN, -The severity of the Canadian winter renders it not only expedient but necessary for all who intend rate ing stock to have good shelter as well as suitable food for them, and as the wheat crop be been a comparative failure in some parts of the country for the last few years, from the rarages of the midge, the importance of raising stock of all kinds is greatly increased. The question is how can we winter our animals most profitably? We believe the farmer who takes the best care of his stock will eventually reap the greatest reward, at any rate we think the subject import ant, and have no doubt it will receive the attertion of every intelligent farmer. There is one point upon which we all agree, which is, that all animals of whatever description should be kept in such condition that they will be constantly improving until they arrive at full maturity; and to accomplish this they must receive such treat ment during the winter that they may be tuned out in the spring in as good condition as when taken into the yard in the fall. To do this it is required to have warm, comfortable, and well ventilated stables, as well as the proper kind of food to nourish the animal and prevent the waste of the system. Yet there is a great dienity of opinion as to the manner of sheltering took. Some farmers, and I think the greater acrity, believe that stabling is preferable to n other way, while others contend with equal refidence, that the barn-yard, with suitable hads attached, is better than stabling. Their rument is, that the animal will never remunerte them for the expense of erecting buildings w their accommodation and the extra labor of edding, while the former maintain that by keepng the animal in a warm stable less food is reured, as little is expended in keeping up the amal heat. This I think is a good argument, ad I intend trying to show how this is the case. According to the science of physiology the heat the body when in a state of rest, is the same nevery part of the earth's surface at all seaons of the year. Blood heat in domestic anials is 100 Farenheit in the hottest day of sumer, and should be kept up to the same point in he very cold weather, and according to one of aure's laws, when a hot substance is brought no contact with a cold one, the heat immeistely begins to leave the one and becomes aborbed by the other until they become of equal emperature; thus it is plain to be seen, that if nanimal is surrounded by a very cold atmoshere, the animal heat will be given off, and unas a fresh supply is provided the temperature f the animal becomes reduced to that of the tmosphere, and death would often be the result. low suppose we enquire what this animal heat and bow it is produced. After food is taken to the stomach it undergoes many changes,—a art of it is converted into blood, portions of bich are carbon and hydrogen, which, when rought into contact with the oxygen of the air hich is brought into the lungs by breathing, union takes place and heat is given out, just the same manner as wood gives heat when amt in a stove. Combustion is the same in th cases, only that it is much more rapid in he case of the latter than in the former. think will not only show what animal heat is, stalso that it is expended much faster in cold an in warm weather. If this be the case, then enecessity for having warm and comfortable tables for stock must be apparent to all; at all rents, we have concluded to furnish ours with a enial atmosphere, and save our fodder. Peraps I have dwelt longer upon this part of the object than was necessary; but we think it is me the matter was understood, and some plan her than an increased amount of food deviato keep up the animal heat during our cold inters.

Much care should be taken with calves until be become a year old. Be sure they have a lent of such food as will give them bone and sacle from the time they are taken from their se. Carrots or turnips may be used, give as such hav as they will eat, and I think a little sal will be found very beneficial.

I do not think it advisable to tie up animals

at this age, but let them have plenty of room in a well littered stable: if you are raising manysay six or eight-we would recommend dividing them into two or three lots instead of allowing them all to eat at the same manger. We would also provide them with water in the house, and only let them out when the weather is very fine. After they become a year old, they may be tied in the stall during the night, where they should be fed roots and hay, and be turned into the yard by day, where water should always be provided for them. This is often neglected, and the animals have often to walk a long way to water or go without, which they will often do in very I think every farmer who rough weather. studies his own interest as well as the comfort of his stock, will see the utilility as well as the convenience of having water provided for them in the yard. A good animal is worth keeping well, a poor one is not worth keeping at all. When fattening cattle is practised during winter, (and it is becoming very prevalent among farmers since the growing of roots of every description has become so general) strict attention is necessary. The animal selected for that purpose should be full grown, and in good condition in the fall. Our custom is to tie them up as soon as the pastures fail and the rough weather commences: give them plenty of turnips To an animal which when fat would and hay. weigh from eight to nine hundred, give about a bushel at a feed, and three times a day, always keeping plenty of good hay before them. For the last six or e ght weeks give them about four quarts of corn or pea meal extra. This seems to give them a fresh start, and we have invariably succeeded in making them first class beef at Easter. During all this time they should be kept as quiet as possible, never being disturbed except at the regular hours for feeding.

SHEEP .- Stock sheep should have plenty of room in a house with a small yard attached, and I think should always have access to water, as the quantity of roots which it would be advisable to give them would not be sufficient to supply them with that article. Lambs and those that are fattening should have sufficient roots to prevent the necessity of having water, and should be fed a little grain every day, always keeping a good supply of hay or pea-straw in their crib. Roots, I think, should always be cut for sheep, as experience teaches us that they injure their teeth when fed to them whole. All kinds of roots should be housed as clean as possible; they will keep better and do more good: dirty roots always have a tendency to scour the animal fed on I fear that I am trespassing upon your time; but I cannot close without saying something about that noble animal, the Horse, the animal upon which the farmer in this part of the country depends more than all the domestic animals together; yet, strange to say, he is often

neglected, and sometimes allowed to suffer during our cold winters. But we hope the time is near when the horse, as well as all other animals, will be better cared for. If you wish to have your horses thrive and continue healthy, you cannot pay too much attention to their comfort. Their stables should be warm in winter and cool in summer; to secure these conditions they must be properly constructed, so that the outside air (except so much as is required for ventilation) may be excluded during the coldest weather. Warm blankets should be provided for working horses. Ventilation in stables constructed for horses is of much greater importance than in those for cattle. Colts should be taken great care of during their They should have a commodious house, well littered, but without a floor; as it is found that by standing upon a dry floor the hoof is subject to become brittle. We practise feeding them carrots and hay twice a day, and about three pints of grain once a day. Much care should be taken in feeding grain of any kind, as it is liable to contract the feet when fed in large quantities. Many a colt has been spoilt by being fed too much grain when young. Horses that have to work during winter should have grain twice a day, as well as roots and hay, and should be fed regularly at stated times, and in much larger quantities than in summer, especially in very cold weather. Carrots, I think, should be the roots fed to working horses, as they contain less of the fattening quality and more of that element which gives muscle than either the turnip or mangel. I refrain from saying anything more at present, and leave the subject with those better qualified to do it justice.

The Effects of High Feeding for Show.

[The Mark Lane Express thus notices the death of some famous Shorthorns from over feeding for purposes of exhibition. Let us take warning:]

"The Queen of Athelstane," the first prize yearling heifer at the Dumfries Meeting of the Highland Society, died during the past weeks when she was just two years old. This really beautiful heifer was bred by Mr. Douglass, of Athelstanford, and was by Sir James the Rose, out of Ringlet, by Frederick, her dam Pearly by Royal Buck. We had to speak of her in high terms in our report of the great northern meeting, where the Queen also attracted the notice of Lady Pigot, who subsequently brought her south at the price of five hundred guineas, and in whose possession the heifer died at Branches Park. She was said to be in calf to Lord of the Valley. The cause of her death Lord of the Valley. The cause of her death was inflammation of the bowels, not the un frequent end of over fed cattle, either from indigession or on any exposure to cold. Her ladyship | body.—Guelph Herald.

has only recently lost another promising heits called Ethelgiva, from the same cause, out Duchess of Gloucester the 2d, a prize count Canterbury; and Lucy, another of Lady Pigoti herd, bought at Wetherell's sale, for 150 guines was killed, at Christmas, as butcher's beef. He ladyship feeds high, and it was only during the past year that we had to notice her exhibiting heifer in one week as a fat beast, and in the next as a breeding animal! Mr. Douglass als brings his stock out very full of flesh, and as consequence his famous Venus de Medici hu never qualified; while the sweet Maid of Atha stance, an own sister to the Queen of Athelstan stood upon the extra stock at Dumfries from never having had a calf. What a commentar all this is on our remarks of last week, on Me Fawke's protest, and on Mr. Carr's letters. Of course the poor Queen of Athelstane was a training for the Leeds Meeting, or in other work being pampered up like a bilious alderman, or a over crammed turkey, who drops down will the last ball of barley meal in his throat "What really is the meaning of bringing an animal of properly for showing?" Would not killing bea better reading for such a state?

MAY FAIR AND MONTHLY MARKET .- Guelph May Fair has for many years had the character of being par excellence the busy day of the trading community of the town. The fair this year scarcely maintained the prestige it has acquired. The weather recently has been in clement, the season is late and the farmers are in arrear with their ploughing and sowing. Tuesday night was cold and boisterous and the morning of Wednesday-the Fair-day-showd the streets, and the hills in the neighborhood covered with snow, which melting as the sawent south, rendered the roads in the vicinity, previously sufficiently bad, almost impassible. There were nearly 200 cattle brought to town, however, comprising several fine lots of prime fat, which were speedily purchased by dealers from the South, at higher prices than were obtained at the April Market. Mr. Scott, of Enmosa obtained \$4 per 100 lbs. live weight for four fat cattle, and another party sold two prime fat cows for \$70 each, which it was ed culated was equal to at least \$44. There were fut cattle, however, sold as low as \$31, the are: age, as computed by the Secretary of the County Agricultural Society, being pretty nearly \$4.

Milk cows were in request, and brought from \$20 to \$30. Fat stock was evidently in demand and more than were offered would readily have found purchasers at remunerative prices. I was rumored, perhaps on no sufficient authority that purchases were made to furnish rations to the Federal troops. Should such be the case we shall doubtless soon learn that such unwonter 'feed' has put them in a condition to hurt some

9.75

COST OF THRESHING.—A correspondent of he Northwestern Farmer claims that the cost fibreshing by large eight horse power malices, causes to farmers a great less. His estimet, from a practical acquaintance with the wak is as follows:

"We will admit that with a good Thresher, old stout horses, a full complement of men to adle grain and stack the straw, and with good eather and favorable wind, there can be breshed and partially separated, in a day two wadred and fifty bushels of wheat.

"The cost of this day's work I estimate as

othe Thresher, [he furnishing machine, 4 horses and 3 men] 4c per bush. \$1 3 hands exclusive of above, 75c per day. borses furnished by farmer, 50c "

bosses furnished by farmer, 50c " 2.00 and of 16 men, 30c " 4.80 me for 8 horses, 25c " 2.00 ting 250 bush. through Fanning mill at 14c. per bushel, 3.12

Total, \$31.67

eing a small fraction less than twelve and a alf cents per bushel; leaving out of the acount all contingencies, such as changing potion of machine and horse power, breakages fmachinery, rainy weather and adverse winds, lich in a majority of instances would swell the atvery materially. It is evident, therefore, me the foregoing estimate, that there is a balce of just five cents per bushel in favor of the d mode, as compared with the modern immed, Eight Horse-Hower Threshers."—
lichigan Farmer.

Horticultural.

Cobourg Horticultural Society.

We received some time since a Report, which fortunately got mislaid, of this young and ourshing Society, whose operations have exacted over only two years. The Directors say:

"It is with great pleasure we congratulate this seity on the continued success which has ataded it during the second year of its existence; ewould not attribute this success to our mangement, but to those spirited members, who, at reat sacrifice of time and much personal exermination which is the lite-blood of all such seities as ours, and without which failure ould be the inevitable result.

Our Fall show was remarkable in one particut, which we would here chronicle. The Velable productions were astonishing. Sever-of your directors had an opportunity of comusion by being present at the Provincial Fair

at Hamilton and other local societies' Shows, and they certainly feel called on to say this much, that the display made by the Cobourg Horticultural Society, in this particular department was altogether the best they had been privileged to see, affording proof that our particular locality is peculiarly adapted for growing the most profitable garden products.

The number of members, each paying a dollar for the past year, was \$8, and the financial condition of the society is good, the Treasurer having a small balance in his hands. We shall be glad to hear of the continued prosperity of this young and energetic society, and trust that Horticulture is destined to receive similar encouragement as Agriculture has long experienced in the old Newcastle District, and that the anticipation of the Directors will be fully realized "in obtaining a very large membership for 1861, especially as they see so many evidences that the dark days of Cobourg are with the past."

Culture of Annual Flower Seeds.

The soil for these should not be over rich, and should be dug deep; the surface should be rendered smooth and fine before sowing the seed; small seeds sown on rough ground fale ... tween the clods and into the crevices and get buried. Attention to this simple hint will save grovers much disappointment, and seedsmen a great amount of blame; for, in cases of failure, the quality of the seeds is almost invariably im-Hardy Annuals may be sown from the peached. middle to the end of September for spring flowering; the plants ought to be thinned out before winter, to prevent their damping off, and transplanted early in the spring, to the flower border, or, when more convenient, may be sown where they are to bloom. Many of the Hardy Annuals, especially the Californian, flower more profusely, produce finer blossoms, and remain longer in perfection during the spring months than at any other season of the year. For summer and autumn flowering, sow from the middle of March to the middle of June. A common error in the cultivation of Annuals is in allowing them to grow too close together; and many, of what would otherwise be an attractive bed of Annual Flowers, are ruined for want of thinning. We therefore say, thin early, and sufficiently to afford ample space for the perfect development of the plants left. It is also very important to afford support to such kinds as require it before they get broken or injured by wind or heavy rain; perhaps the simplest way of doing this is to place among and around the plants small neat branches, like pea stakes; the lateral shoots will extend among and hide the stakes, and the

support afforded by this simple and inexpensive means will in most instances be found all that is required. But perhaps the common practice of covering the seeds too heavily, causes more disappointment than all other errors. Small seeds should be covered very lightly, and with soil not liable to cake by exposure to sun and Common garden loam and leaf soil, or old dung, passed through a fine sieve and well intermixed, will be excellent for covering with. Half Hardy Annuals should not be sown in the open border before May, and the ground will require the same preparation, &c., as recommended for Hardy Annuals. But the best method of raising these is to sow in pans, or boxes, in April, or on a bed, about three inches thick, of light soil, placed on a gentle hot bed formed of stable munure or vegetable refuse, and protteted with a frame or hand glass. Water sparingly and give plenty of air when the plants appear, and thin out, or prick off in small pots, and be careful to get plants well inured to the weather previou to planting in the open border, and also to give water as may be necessary, after planting, till established.—Hand Book of Annual Record.

Improved Hollyhocks.

A taste for this fine old flower has of late been reviving both in Europe and America. The Gardener's Monthly says:—

"Radical shoots, taken off as cuttings in the spring, no doubt give the strongest spikes, but they may be easily propagated by single eyes in July and August. Plant eyes in March; the former month is best for early flowering, the latter for very late blooming. Never plant on new ground or in maiden earth, but choose a soil that has been well worked, and if well trenched, so much the better."

IN MOURNING.—The gardeners of Great Britain are mourning over the deaths of many of their most valuable productions, occasioned by the severe winter, and don't seem willing to be comforted. The horticultural journals are filled with obituary notices of the loss of many of the finest ornaments of the lawns and grounds, which the keen and unwonted temperature of five or six degrees below zero has converted from a delight for the eyes into only material for faggots.

Che Poultry Yard.

Do you want Eggs in Winter?

Then give the manufacturers materials to make them with, and a comfortable place to work in. Let the egg-less say what they will, we speak what we know, when we assert that it is perfectly feasible to keep the hens laying all

winter. Give them animal food to supply the place of insects they eatch in summer, and the let them have a warm place to run into, with plenty of unfrozen water, not snow, and after quent taste of green food, such as cables leaves, potatoes, &c., and remember to supply some gravel for their grinding-mill, and time is make shells out of, and we will warrant to animals to repay all the care and food, in the plump eggs—no matter what the particle breed may be. Try it.

A hen without some kind of meat and grand and lime, compelled to eat snow for water or a without, cannot make eggs. If she has to kee constantly changing from standing on one fell to the other to keep both from freezing, to can't stop to think about getting up eggs. If all she eats and can digest, must be expended in keeping the heat of her body, she has nother left to turn into eggs. If her body is all shading with cold, she hasn't room inside for an en of respectable size, and though her instin is an sometimes induce her to produce a thin sheld "pullet's egg" at the expense of the limed her bones, her pride revolts at such a dwarfd production, and she seldom furnishes beggt two or three.

Give Madam hen the odd bits of fresh med, and the other fixings named above, not forgetting the water, and make her quarters so fix from cold air holes that she is comfortable, at she can't help giving attention to her naturioccupation of manufacturing eggs, much to be own satisfaction and the profit of her owner.—American Agriculturist.

TREATMENT OF HENS.—Two flocks of hewere compared. One laid eggs almost all the time; the other scarcely any. On examining their treatment, the following differences were found to exist: the former had a warm cellar roost in during the winter; the latter roosted a stable where the wind blew in. The former had a fine place on an open cellar for scratching among the ashes, lime, and earth; the latter scratched in the manure heap, or in the stable when the cows were put out. The former had plenty of good water, with milk, &c.; the other had no drink, except what they could find—Rural American.

Veterinary.

Bots and Bot Insects.

[In Mayhew's Illustrated Horse Doctor, w. find the following excellent description of the bots, and the uselessness of attempts to destroy them:]

No animal which has not been turned out to graze during the summer months can possibly be troubled with these parasites. Such annormal summer months can possibly be troubled with these parasites.

arces form no light argument against the benefit accomplished by that which is, in slang prase, termed 'Dr. Green.' The appearance of the coat, and aspect of unthriftiness, after a nn at grass, generally declare bots to be present rithin the body.

Uninformed persons are always desirous to possess some medicine which will destroy bots; they wonder that science lacks invention sufficent to compound such an agent. An anecdate may probably dispel such astonishment.

A patron of the Royal Veterinary College was once conducted by a pupil through the museum belonging to that establishment; the pair at last stood before the preparation of a horse's stomach eaten through by, and also covered with, bots.

God bless my soul!' exclaimed the visitor, after the nature of the specimen had been explained. 'What a spectacle! What a myriad of tormentors! And have you no medicine to remove such nuisances? Can veterinary science discover nothing capable of destroying those

parasite?'

'Why, sir,' replied the student, 'only look at that preparation. To my knowledge, it has been put up in spirits of wine, and corked air ught for two years. The creatures must be either very dead or very drunk by this time; yet, as you witness, they hold on. What sort of physic could accomplish more than is already effected by the spirits of wine and close confinement? I am at a loss to conjecture!'

For the above, the author is indebted to the admirable lectures delivered by Professor Spooner; but the conclusion drawn by the student must be more than satisfactory. Bots, once within the stomach, must remain there till the following year; when being matured, their hold of the lining membrane of the viscus will relax, and, in the form of a chrysalis, they are ejected from the system. No medicine can expedite the tranformation. It has hitherto appeared easier to kill the horse than to remove the parasite.

To the invertigation of Bracy Clark, Esq., V.S., the public owe all their knowledge of the by, whence the bot is derived. The common parent, according to the above authority, is the ostrus equi; and the author gladly avils himself of the original description by the above-named talented gentleman.

'ON THE ŒSTRUS EQUI, OR THE STOMACH BOT.'

'When the female has been impregnated, and the eggs sufficintly matured, she seeks among the horses a subject for her purpose, and approaching him on the wing, she carries her body nearly upright in the air, and her tail, which is longthened for this purpose, curved inwards and opwards; in this way she approaches the part where she designs to deposit the egg; and suspending herself for a few seconds before it, suddealy darts upon it, and leaves the egg adhering

merely touches the hair with the egg held out on the projecting point of the abdomen. The egg is made to adhere by means of a glutinous liquor secreted with it. She then leaves the horse at a small distance, and prepares a second egg, and poising herself before the part, deposits it in the same way. The liquor dries, and the egg becomes firmly glued to the hair: this is repeated by these flies till four or five hundred eggs are sometimes placed on one horse.
The skin of the horse is usually thrown into a

tremulous motion on the touch of this iusect, which merely arises from the very great irritability of the skin and cutaneous muscles at this season of the year, occasioned by the heat and continual teazing of the flies, till at length these muscles appear to act involuntarily on the slight-

est touch of any body whatever.

The inside of the knee is the part on which these flies are most fond of depositing their eggs, and next to this on the side and back part of the shoulder, and less frequently on the extreme ends of the hairs of the mane. But it is a fact worthy of attention, that the fly does not place them promiseuously about the body, but constantly on those parts which are most liable to be licked by the tongue; and the ora, therefore, are always scrupulously placed within its reach.

'The eggs thus deposited I at first supposed were loosened from the hairs with the moisture of the tongue, aided by its roughness, and were conveyed to the stomach, where they were hatched: but on more minute search I do not find this to be the ease, or at least only by accident; for when they have remained on the hairs four or five days, they become ripe, after which time the slightest application of warmth and moisture is sufficient to bring forth in an instant the latent larva. At this time, if the tongue of the horse touches the egg, its operculum is thrown open, and a small active worm is produced, which readily adheres to the moist surface of the tongue, and is from thence conveyed with the food to the stomach.

'At its first hatching it is, as we have observed, a small active worm, long in proportion to its thickness, but as its growth advances, it becomes proportionably thicker and broader, and beset with bristles.

'They are very frequent in horses that have been at grass, and are in general found adhering to the white insensible tissue or coat of the

stomach.

'They usually hang in dense clusters to this white cuticular lining of the stomach, and maintain their hold by means of two dark brown hooks, between which a longitudinal slit or fissure is seen, which is the mouth of the larva. When re moved from the stomach by the fingers by a sudden jerk, so as not to injure them, they will if fresh and healthy, attach themselves to any loose membrane, and even to the skin of the hand. For this purpose they sheath or draw back the to the hair; she hardly appears to settle, but hooks almost entirely within the skin, till the two points come close to each other; they then present them to the membrane and keeping them parallel till it is pierced through, they expand them in a lateral direction, and afterwards, bybringing the points downwards towards them selves, they u clude a sufficient piece of the membrane, to remain firmly fixed for any length of time as at anchor, without requiring any further exertion.

'These bots, as is also the case with two or three other species, pass the autumn, winter and spring months in the stomach, and arrive about the cormencement of the summer at their full growth, requiring a twelvementh fully to complete their structure.'

Distemper in Horses.

Dr. Dadd in the American Stock Journal remarks of distemper in horses:

About this season of the year we may expect to hear of a number of horses being attacked with influenza, or distemper, in stables that are crowded with "sale horses," and where the principles of ventilation are entirely disregarded. The disease is very apt to extend from the mucus surfaces of the nostrils, to the throat and interior of the air cells of the lungs; usually, however, the throat is the seat of soreness and exudation; while in some cases which have lately occurred in this city, a very profuse discharge from both nostrils was observed, which ended in a critical outburst of an abscess between the angles of the lower jaw. In two cases that have lately come under my observation, the disease ended in pleurisy, and effusion of serum into the cavity of the chest, which was attended with dropsical swellings in the legs, and external parts of the chest.

When distemper occurs in the system of an animal debilitated by previous disease, or one of a morbid or scrofulous diathesis, a profuse and protrac ed nasal gleet remains, and this is accompan ed by tumefaction of the thyroid glands in the region of the throat. The purulent discharge from the nostrils need not occasion any anxiety on the part of the owner of the horse or the medical attendant, for as it increases in quantity, the other observable symptoms of the malady grow milder; in fact the discharge may be considered an effort, on the part of nature, to rid the system of morbific matter, and any attempts by injudicious treatment, to arrest this salutary discharge may effect a translation of disease, which often ends in death. Death may, however, be occasioned by the re-absorption of the morbid nasal discharge; under such circumstances the nasal membrane takes on a livid look, and streaks or spots of extravasated blood are observed; the membranes of the eyes assum a dark red color, the pulse becomes indistinet; cold sweats bedew the body; the patient becomes emaciated, leses his appetite and soon after, his life. In a few solitary cases a partial recovery takes place—death refuses to receive victim—the animal lives to be the subject of confirmed heaves or broken wind.

Treatment of Distemper.—The animal should be placed in a comfortable location, where he can breath pure air, and be free from annonance of every kind; should the weather be chilly, the body may be lightly clothed, and the lower part of the limbs bandaged with flannel. It is very important that the surface of the body be kept warm, for when cold, the equilibrium of the circulation is disturbed; the blood then localizes itself about the internal organs, and produces congestion; a condition very unfavorable, in view of the speedy restoration of the sick creature.

It should be understood by every husbandman that this affection is of a prostrating nature, that the object in the treatment of the malady is to husband the animal powers-keep the horn alive while the disease runs its course-and preserve the tone of its system by adminis tering tonics and diffusable stimulants; a few doses of golden seal and ginger, accompanded by a rationale allowance of scalded oats, small quantities of hay, and water enough, are gener. ally all that is needed by way of treatment. And if this course be pursued the animal will recover, very little the worse for having had the distenper. A mild form of this disease is often make to assume a typhoid or putrid type simply from meddlesome medication and overdosing, with agents which depress the vital powers, by bleed

No matter what may be the stage is which we find the disease, the treatment must be life sustaining; no kind of treatment which contemplates a depression of vitality is at all admissable—this is my experience after a practice of many years—the most intelligent and I beral-middle physicians of the present day depend more on nature than art, in the treatment of distemper.

Should swellings appear under the chest and limbs, the proposed plan of treatment is not to be materially altered, only add to the golden seal and ginger, a little iodide of Potass; the egent is a glandular stimulant, and augments the function of the absorbents which take up the fluid and thus reduce the swellings, which are of a dropsical character. The proportions of the above agents are as follows:

Golden Seal, powdered, 2 ounces. Ginger, " 1 ounce. Iodide of Potass, " 3 drachms.

mix, and divide into twelve parts, and give one night and morning in food or gruel.

It may happen that the animal is unable to swallow, in consequence of soreness of the threat, as the saying is; in such a case we merely apply some stimulating application to the region of the throat, and want awhile; soon the sorcess

and the patient can then swallow all he needs and as much as nature requires.

The best stimulating application for the

throat is

Cod Liver Oil, 4 ounces.
Tincture of Casicum, 1 ounce.
Author perhaps equally as good;

Olive Oil, 6 ounces, Spirits of Hortshorn, 2 ounces.

Aportion of either of the above preparations may be rubbed into the thyroid region twice. daily. Under the above mode of treatment I have found that recovery is not only soon accomplished but perfect.

Cure of a Bone Spavin.

Levi J. Reynolds, in the New England Farmer, thus states how he effected a cure of a bone

spavin:

I have a fine mare, which, three years ago, became very lame from a bone spavin on the inside of the left hind leg. After pretty hard driving for several days, she became so lame that The spavin was very she was unfit for use. tender, and she rested the foot constantly on the toe when she stood. I took her to the blacksmith and directed him to put on a shoe without any toe cork, and with blunt heel corks two inches long. She immediately travelled much hetter, and when she stood, rested the foot on the toe and heel corks, thus relieving the contracted cord of the strain to which it had been constantly subjected. In a short time the infammation and tenderness subsided. The swelling abated, she travelled very well. She wore off the inside cork faster than the outside one, when she began to be lame again. I then had the shoe reset and the corks made of the same length, and she soon became well. After a few weeks I had the corks shortened a little, and the next time she was shod, a liitle more, but still have her wear heel corks an inch or more in length. There is a slight enlargement of the bone where the spavin is seated, but she performs hard service, and is not at all lame. Several of my neighbors have applied the same remedy, with equally good results, and I think that a little thought and observation will satisfy any one that this is the appropriate remedy. cords attached to the part where the enlargement is seated, become inflamed and contracted, and raise up the heel from the ground. When the horse brings the heel to the ground the cords are strained, and became irritated and inflamed. The long corks keep the heel raised permanently, and thus prevent the cords from being trained, and allow the inflammation to get well. Some enlargement and a slight degree of stiffmay remain, but seldom enough to affect the gait.

Transactions.

Abstract of Reports of Agricultural Societies received in the year 1860.

(Continued from page 286.)
NORTH OXFORD.

COUNTY SOCIETY.—One hundred and twenty-seven members; amount of subscriptions, \$130; balance from previous account, \$149.25; deposited by township branches, \$350.50; received for services of horse owned by Society, \$234; government grant, \$479.98; total receipts. \$1343.73. Paid township branches, \$659.89; paid on account of purchase and keep of stallions, \$397.10; paid in premiums, \$212; expenses and sundries, \$61.46.

TOWNSHIP BRANCHES.

BLEINHEIM.—Two hundred and eighteen members; subscriptions, \$234; balance from previous year, \$288 84; public grant, \$120. 37; sundries, \$5976; total receipts, \$702. 97. Paid in premiums, \$338.75; expenses, \$42.79; balance in treasurer's hands, \$321.43.

EAST NISSOURI.—Twenty-nine members; subscriptions, \$35; balance from 1858, \$28. 52; government grant, 47 23; total, \$110.75. Paid in premium, \$96.75; expenses, \$13.25; balance in hand, 75c.

East Zorra.—Fifty-nine members; subscriptions, \$64; balance from previous account, \$5.25; special subscriptions and entries, \$79.50; government grant, \$50.15; received in payment of a note, \$120; total received, \$318.90. Paid in premiums, \$94.50; paid on notes, \$173; expenses and sundries, \$27.52; balance in hand, \$14.88.

WEST ZORRA.—One hundred and two members; subscriptions. \$102.25; balance from preceding year, \$68.52; public grant, \$70; total received, \$240.77. Paid in premiums, \$128.50; expenses, \$17.75; balance in treasurer's hands, \$94.52.

SOUTH OXFORD.

COUNTY Society.—One hundred and forty eight members; subscriptions, \$148; balance from 1858, \$267.80; deposited by township branches, \$206.50; government grant, \$479.98; total received, \$1102.28. Paid township branches, \$474.48; paid premiums, \$330; expenses, \$96,25; balance in treasurer's hands, \$201.05.

TOWNSHIP BRANCHES.

DEREHAM.—Fifty-one members; subscriptions, \$53; public grant, \$75.56: received on a note, \$74.54; total received, \$203.10. Paid in premiums, \$171.75; expenses, \$16. 13; balance in hand, \$15.22.

NORVICH.—Ninety-six members; amount of subscription, \$100.50; balance from previous year, \$79.61; public grant, \$137.43; sundries, \$1.12; total, \$318.66. Paid in premiums, \$194.75; expenses, &c., \$65.44; balance in treasurer's hands, \$68.47.

EAST OXFORD.—Forty-two members; subscriptions, \$48.50; balance from previous year, \$102.45; government grant, \$74.89; total re eived, \$225.84. Paid in premiums, \$93; expenses, \$22; balance in treasurer's hands, \$105.84.

PEEL.

COUNTY SOCIETY.—One hundred and thirty-three members; subscriptions, \$182; balance from 1858, \$56.35; deposited by township branches, \$562.50; grants from municipal councils, \$180; government grants, \$599.96; receipt at show and ploughing match, \$194.81; total receipts, \$1775.62. Paid township branches, \$872.48; paid in premiums, \$478.50; copies Agriculturist, \$25; expenses, &c., \$171.11; balance in treasurer's hands, \$228.53.

TOWNSHIP BRANCHES.

ALBION.—Sixty-six members; subscription, \$66; balance from 1858, \$6.36; grant, \$34.95; entries, \$7; total, 114.31. Paid in premiums, \$105; expenses, \$13,85; balance due freasurer, \$4.54.

CALEDON.—Thirty-two members; amount of subscriptions, \$54 50; government grant, \$28.28; balance from previous year, \$21; receipts at show, \$10 50; total, \$114.28, Paid in premiums, \$90; expenses, \$21.56; balance in hand, \$2.72.

CHINGUACOUSY. —— Seventy-three members; amount of subscriptions. \$87; government grant, \$42.14; total received, \$129.14. Paid in premiums, \$98; paid balance due from 1858, \$10; expenses, \$16; balance in treasurer's hands, \$4.86.

GORE OF TORONTO.—One hundred and thirty members; amount of subscriptions, \$165; balance from previous year, \$49.74; grant from township council, \$28.50; government grant, \$112.39; total, \$355,63. Paid in premiums, \$248; expenses, &c., \$55,79; balance in hands of treasurer, \$51.84.

TORONTO—One hundred and eighty members; subscription, \$236.25; balance from 1858, \$81.12; entries, ploughing match, \$7; grant from township council, \$80; government grant, \$112.22; total received, \$516.59. Paid in premiums at shows and ploughing match, \$322; expenses, &c., \$77.62; balance in treasurer's hands, \$116.97.

PERTH.

COUNTY SOCIETY.—One hundred and eighteen members; subscriptions, \$224 50; balance from 1858, \$166 38; deposited by Townships Branches, \$273; received for premium wheat sold, \$51 84; donation from Canada Company, \$40; grant from Stratford Town Council, \$60; Government grant, \$599. 96; total receipts, \$1655 68. Paid Townships Branches, \$745 05; paid in premiums, \$410 38; expenses, &c., \$245 58; balance in Treasurers's hands, \$254 67.

TOWNSHIPS BRANCHES.

Blanshard.—Eighty seven members; amount of subscriptions, \$147; received from County, \$55; Government grant, \$136 25; balance from previous year, \$22 93; total received, \$361 23. Paid in premiums, \$219.25; expenses, \$78 35; balance in Treasurer's hands, \$63 63.

Fullarton, Logan and Hibbert.-Eight members; amount of subscriptions, \$122.75; Government grant, \$138.67; County grant, \$70.45; premium refunded, \$30; sundris, \$1.40; total received, \$363.27. Paid balance due treasurer from previous year, \$15.05; copies "Agriculturist," \$12; paid premiums, \$225.50; expenses, \$117.25; balance due treasurer, \$6.53.

Wallace and Elma.—Thirty one members; amount of subscriptions and government grant, \$80 00; balance from previous year, \$40 45; total, \$120 45. Paid in premiums and expenses, \$106 75; balance in treasurer's hands, \$13.70.

PETERBOROUGH.

County Society.—One hundred and three members; subscriptions, \$109; balance from former account, \$99 06; received from saled seeds, \$128 90; deposited by Townships branches, \$264; Government grant, \$479 98; receipts at show, \$34 40; total \$1115 34. Paid for clover seed, \$122 50; paid Townships branches, \$589 98; premiums, \$355; expenses, \$42 78; balance in Treasurer's hands, \$5 08.

TOWNSHIP BRANCHES.

ASPHODEL AND BELMONT.—Twenty-five members; subscriptions, \$26; government grant,\$2713; received for seeds,\$53; sundries, \$975; total received, \$11588. Paid for seed; \$61; premiums, \$3988; expenses \$8; balance in hand, \$700.

DUMMER AND DOURO.—Sixty members; subscriptions, \$71; balance from previous year, \$134 99; Government grant, \$87 67; ital received, \$293 66. Paid for clover seed \$132; ploughing match, \$15; expenses, \$21 92; balance in Treasurer's hands, 124 74.

OTONABEE.—Amount of subscriptions, \$74 02; Government grant, \$77 79; regived for seeds sold, \$17 61; receipts at how, \$23 50; total \$192 72. Paid Treaturer, balance due him from previous year, 556 16; copies "Agriculturist," \$10; paid prejums, \$89 87; expenses, &c., \$34 40.

Extracts from Report.

In presenting their annual report on the tate of agriculture, in the Township, the Diectors beg leave to introduce a short history fits early settlement and progress:—

The first settlers arrived in the township bout the year 1820. At that time it was nunbroken forest. The price charged by govmment for the land was £7 per hundred cres, but large tracts were granted to naval nd military officers, who had been discharged com service a short time before, at the close the Peninsular war. These located themlies along the front of the township on the onth Shore of Rice Lake, attracted by the icturesque and beautiful scenery which there bounds. Had these men remained, the adanage to the settlement would have been very real, as most of them were in receipt of anval pensions from the British Government, d thus a large sum of money would have en brought into the township yearly; at the novelty of their position soon wore off. omen who had been accustomed to move in e aristocratic circles of Europe, and sur .mded by the refinements of wealth and thon, the isolated and laborious life of the madian pioneer became irksome and intolerle, and within five years from their first thement, they had all abandoned their loca-... and sought homes and occupations more genial to their tastes and habits. And as that time the regulations in regard to ab-

sentees were such that the township derived no benefit from their land, the progress of the township was very much retarded by large tracts being left unoccupied; as the actual settlers were compelled to open roads through the lands of the absentees, and by improving their own property were at the same time increasing in equal ratio the value of the property of those individuals who had deserted them in their greatest need. In consequence of the township being situated so far inland, and having Rice Lake in front of it, great difficulty was experienced by the settlers in conveying themselves and their necessary stores, to their places of destination. Most of these had to be transported on the shoulders of the hardy Pioneers, from the shores of Lake Ontario, a distance of from 25 to 30 miles. But little inducement offered for clearing land, as the cost of taking produce to market would have been equal to the price obtained for it, nor were there any mills within reach to grind that required for home consumption. In view of these facts, it will not be wondered at that many were discouraged, and left the township during the first 3 or 4 years, and that only the most dauntless and energetic should persevere in the face of what appeared almost insurmountable difficulties, until the most adverse circumstances yielded to their indefatigable industry and unwavering purpose; and until they had succeeded, after long years of toil and hardship, in converting the frowning wilderness into pleasant and comfortable homes for themselves and posterity.

The Township of Ontonobee contains about 70,000 acres, and it is computed that fully one half of this is cleared and under cultiva-Along the front, and for some distance back from the lake the land was principally timbered with pine, the soil varying from a light to a heavy clay loam, well adapted to wheat, and most of the cultivated cereals, and Where heavy clay loam prevails, the land generally requires draining, further back and in the middle of the township the timber was chiefly hardwood, and the soil a calcareous clay mixed with small limestones, the surface rolling, in some places thickly covered with boulders of lime and granite, from 100lbs. to a ton or over in weight, and adapted to all cultivated crops. Along the northern boundry the land is more broken; narrow swamps and ridges alternately prevail; the land here is not so well adapted to wheat, in consequence

of the mucky nature of the soil.

Cleared farms are worth from \$20 to \$40 per acre, according to improvements, actual sales have been made in diff rent parts of the township, at from \$16 to \$40 per acre; the fences are generally of rails and are equal to any in the country. Some farmers have lately commenced to build stone fences, which, as far as tried, have proved efficient.

The original log buildings have nearly given place to frame and stone dwellings, frame barns, stables, sheds, &c., &c., mostly of a

very superior description.

The leading product is Fall Wheat; on land properly cultivated, sown at the right season, and otherwise well cared for, the yield is 25 bushels per acre or over, in some cases 41 bushels have been raised; although much of it is inferior, from being sown on land in poor condition, and improperly cultivated, yet probably one half of all the wheat grown in the township, will reach the figure indicated above.

Peas are sown to a considerable extent, and the product is 25 to 30 bushels per acre.

Oats are grown chiefly for local consumption and produce, and produce about 30 bush, per acre, with the very best cultivation, and in favorable seasons, as high as 80 bushels per acre have been obtained.

Spring wheat is not much grown, the proportion not being over 1 to 5 of fall wheat; the average yield is about 10 bushels per acre, the climate and soil being much better adapted

to fall than spring wheat.

Formerly turnips were grown very sucsessfully on new land, but for several years past very little land has been cleared, and farmers have had to resort to old land for that purpose. Root crops are now very generally though not extensively cultivated; the quantity of land devoted to ro ts, exclusive of potatos, does not probably exceed 1 per cent. of the cleared land of the township. Turnips produce from 400 to 800 bushels per acre, Mangel wurzel about the same. Potatos about 200 bushels per acre.

The prevailing system of cultivating and cropping is: wheat after summer fallow,—then oats, followed by peas, which is sometimes succeeded by wheat, then seeded to grass, which is mowed one or two years, then pastured one or two more, and again summer fallowed for wheat, and so on again. The current wages for farm laborers, during the past year, has been from \$10 to \$12 per month with board. Carpenters \$1.25 to

\$1 50 per day. Masons \$1 50 per day, all with board.

In 1858 it was computed that the wheat crop was injured to the extent of 30 per cent. by the weevil or midge; in 1853, the damage to fall wheat was hardly perceptable. The Fife wheat also almost escaped uninjured, while Club wheat suffered to the extent of 10 per cent; fall wheat suffered considerably in some places, by the sevene frost of June 4th; in a few cases the damage was estimated at 50 per cent; but the greater portion of the township escaped without mjury, the lands on which its effects were most severely felt, were mucky soils, and very light sandy loams.

The hay crop of 1859 was a complete failure, the principle cause of which is ascribed to above mentioned frost, although it is believed that the ravages of the Grasshoppen the previous fa.l had an injurious effect on the plants by stripping off the leaves, and leaving

the roots more exposed than usual. Potatos were a full crop, and not affected with rot except in a few cases. Turnips were above an average, in several cases 800 bushels were obtained; Mangel Wurzel and Carrou were also good, but the quantity raised is in-Several small parcels of the significant. Hungarian Grass seed were sown last spring; on very rich garden soil, the produce was computed at 4 tons per acre; in one case of an acre was sown, in a piece of dry calcareous soil, of an average quality, without manue, with the view of testing its value for general culture, as a forage crop; the quantity of seed sown was 15lbs, time of sowing 1st of June, and the yield 13 tons per acre.

The season of 1859 has been regarded as very peculiar. Notwithstanding plowing commenced at least two weeks earlier than usual, yet vegetation was exceedingly late, and was again checked very early in Autumn; thus while the growing season has been shorter than usual, the working season has been much longer, the average plowing season may be regarded as commencing April 1st and continuing until Nov, 15th, or about 7½ months, while the past season, plowing commenced on the 18th of March, and continued until the 2nd of December, or about 8½ months.

But little care has been taken in improving the breed of cattle; a few importations have been made of the Durham and Devon breeds; the latter have not proved successful, as a cross with the natives. The Durhams have proted

perior to any other for feeding, and it is being that a cross of the Durham and the alires is best adapted to general purposes.

Horses are a mixture of breeds which it is add, possible to define, and require to be approved in size, being in general much too

mall for heavy plowing.

Several importations of Leicester sheep have en made, which are now diffused throughout be greater portion of the township; most of be flocks having been partially crossed with bem.

The breed of Pigs is very good, having een first crossed with the Berkshires, and ore lately improved by the introduction of a tree white breed, said to be imported from

ngland.

Untl very recently cattle-breeding was onfined to the wants of the locality, but the last four years a considerable umber have been bought up by drovers nn the United States, the price of 4 ear old steers being about twenty dollars. but 500 head of cattle, 500 sheep, and 000 pigs, have been taken out of the townip during the past summer, in this way, the winter of 1858 and 1859, Thomas bort Esq. fed 150 head of cattle for the ontreal and New-York markets; and he "dothers are again engaged in the same The result of ziness the present season. a Short's operations last year, chiefly in mequence of the scarcity and high price of d towards the end of the season, was unsafactory; but it may be stated that his catwere fed wholly on hay and grain, while, epresent year, straw has been substituted for y, and roots in some measure for grain; and perience thus far seems to indicate that this use is equally efficacious, as it is evidently uchless expensive; although the system of all feeding is evidently attended with more ould and risk, and may not yield so large a er profit as selling in a lean state, yet by the ge quantity of manure it produces, it must pidly improve the soil and ultimately result the greatest profit.

Thorough drainage cannot be said to have their commenced, although quite a number repartially drained, some extensively, and

result has been very satisfactory.

It has already been remarked that roots but extensively cultivated; but the quantis increasing every year. One farmer a field of fourteen acres last season, which the largest quantity yet raised in the subject.

The subsoil plow was introduced several years since, but the expectations regarding it were not realized. The pa-t year two farmers have used the Michigan double mould-board plow, of which better results are anticipated.

A great improvement has taken place in agricultural implements, most of which are now manufactured in the township, at an extensive establishment erected by Thomas Short, Esq., M. P. P., and leased to John Moscripp, by whom it is well worked. The machines and implements made are of the best description. Pitt's 8 horse power thrashers are generally used. Plows are of almost every description. There are a few reaping and mowing machines, but most of the land requires improvement in the removal of stones and stumps before they can be generally and efficiently worked.

The greatest improvement required in farm management is, deeper plowing and some means of increasing the quantity of manure. Although it is not admitted that the township is inferior to others in general farm management, yet it is beyound a doubt that with thorough and deep tillage, the produce of the land might be increased 100 ps cent.

SMITH.—One hundred and eight members; subscriptions, \$108; balance from previous year, \$5.81; government grant, \$133,36; total, 247.17. Paid in premiums, \$52; paid for clover seed, \$65; paid for plaster, \$70; expenses, \$60.17.

PRESCOTT.

COUNTY SOCIETY.—Fifty members; am't of subacriptions, \$50; balance from previous year, \$9.60; deposited by township branches, \$160; government grant, \$374.40; total, \$594. Paid for copies of Agricu'turist, \$13. 25; paid township branches, \$384.64; premiums, \$163; expenses, \$32,90; balance in hand, 21 cents.

TOWNSHIP BRANCHES.

CALEDONIA.—Forty members; amount of subscriptions, \$40; balance from previous year, \$2.50; government grant, \$56.16; total, \$98.66. Paid in premiums, \$86; expenses, \$12; balance, 66 cents.

HAWKESBURY.—Forty members; "subscriptions, \$152; government grunt, \$112. 32; total, 264.32. Paid County Society, \$36; paid premiums, \$184.62; expenses, \$36; balance in hand, \$7.70.

LONGUEUIL.—Fifteen members; amount of subscriptions, \$45; balance from former acc't, \$8.45; government grant, \$56.15; total, \$109. 60. Paid in premiums, \$84.65; expenses, \$21; balance in treasurer's hands, \$3.95.

PRINCE EDWARD.

COUNTY SOCIETY.—Ninety-four members; subscriptions, \$94; received proceeds of a note discounted, \$93.40; deposited by township Societies, \$239; government grant, \$570; receipts at show, \$40.26; total received, \$1041.66. Paid balance due treasurer from previous year, \$57.09; paid note, \$100; copies Agriculturist, \$36.80; paid township branches, \$580.80; premiums, \$158.30; expenses, \$20.60; balance in hand, \$88.07.

TOWNSHIP BRANCHES.

AMELIASBURGH.—Forty members; subscriptions, \$40; balance from previous year, \$8.09; government grant, 56.28; total received, \$104.37. Paid in premiums, \$90.48; expenses, \$7.83; balance in treasurer's hands, \$6 06.

HALLOWEL.—Forty two members; subscriptions, \$42; balance from previous year, \$6.68; government grant, \$54.29; total, \$102.79. Paid in prizes, \$86.58; expenses, \$12.75; balance, \$3.64.

HILLIER.—Fifty-six members; subscriptions \$56; government grant, \$78.80; balance from previous year, \$22.25; total received, \$15705. Paid in premiums, \$115; expenses, \$29.20; balance in treasurer's hands, \$12.85.

MARYSBURGH.—Twenty-nine members; subscriptions, \$63; government grant, \$80.32; total, \$143.32. Paid for clover and timothy seed, \$138.60; incidental expenses, \$4.72,

SOPHIASBURGH.—Forty-five members; amount of subscriptions, \$48; balance from previous account, \$35.72; government grant, \$69.10; total received, \$152,82. Paid in premiums, \$131.40; expenses, \$15; balance in treasurer's hands, \$6.42.

Miscellaneous.

JAVA WHEAT.—" Despise not the Day of small things.—The introduction of this variety of wheat has added so much to the agricultural wealth of New England, that its history is worthy of record. Until within a few years the cultivation of spring wheat was scarcely practised in this vicinity. The weevil, rust, and other enemies of the wheat crop, were considered so

sure and destructive, that few farmers could at ford the experiment. So generally did this idea prevail that the State offered a bounty on the erop, in order to induce farmers to attempt the culture. By the returns made to the authorities in this town, I find that the largest crop raised on the choicest fields, was less than twenty bushels, while the average was but about fifteen -not enough, even with the state bounty, to encourage farmers to sow wheat largely. About twelve years since, a young lady while burning some Java coffee, found among it a grain of wheat. Struck with its line plump appearance, she planted it in the garden. It came up and grew vigorously, maturing some half dozen heads, all well filled, with no appearance of weevil or rust. The product was sown in the garden the next season with the same favourable result. The third year, a portion was distributed among some friends, sown upon different soils but in every instance yielded abundantly. From this small beginning, the "Java" rose rapidly in value and in the estimation of the community, until it has become a general crop with us, being considered not only more profitable than any of the grain crops, but more sure than even the corn crop. The yield the past year varied from 25 to 12 (or more) bushels per acre—worthin flouring purposes \$1 50 per bushel, and atres more for seed. I have not heard of a failure with this variety within the two past years. For flouring it is said not to quite equal some of the winter varieties, nor the Scotch Fife. vices of the lady who was the means of its introduction, have not been acknowledged or a warded by individuals or associations; but I think entitle her to at least a vote of thanks, and could she have one cent on every bushel of Jan. wheat raised in New England the past year, i would not be an undeserved though abundant re ward .- C. W. G., Holden, Mass., in Coun Gent.

Great Destruction of Russian Grais a Locusts.—The following is from the circular Messrs. Carr, Rostock:—The total shipments wheat from Russia up to the end of September were 684,871 quarrers, against 508,105 quarters, and Found a Russia, Russian and Austrian Poland—the account the sad have done by the locusts in the whole of Souther Russia, Russian and Austrian Poland—the account the state of the destroyed—and considering the from the St. Petersburg, Riga, and Archaugheitstricts, and from Poland the yield is not grant the reverse, I think I may estimate Russian Poland's capabilities or exports the next campaign at one million quarters. Having so often been written to and asked give an idea of the devastation committed by locusts, it may not be out of place, once for a now to do so. In the distance a swarm of leusts look like a dark thunder-cloud, and sitk

mach a whistling sound is heard in the air, dar to a violent thunder-storm; the sun, if ingat the time, is darkened, and the temperbecomes 5 or 10 deg. Reaumer cooler, as narmth of the sun is prevented from peneof the mass. The swarm takes from twelve fleen hours to pass over, and the enormous or quantity of this fearful scourge in the ephere, as far as the eye can reach, makes an overpowering impression on the human that a person feels an inward depressing ing such as difficult breathing, and inability take off the horror-stricken nervous sensa-Business is suspended. If these plagues conce reached the ground, the earth is for ral miles in extent a foot deep at least with and they do not ascend until they have nevery particle of grain, pulse, grass, &c., the soil then looks as if it had been laid ebr fire. These insects can only be got rid hen they are not tired and are able to fly , when a great noise is made, and several ands of persons set to work together; init often happens that the Government stwo or three regiments of soldiers to assist farmers; if, however, the swarms are tired so enormous that they cover the fields a foot or more, then it is not in the power of hubeings to prevent their committing sad and when killed and left on the ground, hould a swarm be driven into the sea and wards washed ashore, the stench is past ing, and generally is followed by a pestilent e. According to a map drawn whilst the emor-General of Odessa made a tour of intion early last May, about 75 Russian square were covered with the eggs of these insects. e fields surrounding the small Polish town omaszow, no less than 625 baskets of living ts (each basket containing about 6,400, and gornats of 15,600 eggs each, making in all four million locusts and nine million eggs) delivered to the burgomaster of the place.

SINESS QUALITIES OF THE FARMER.—The thitld farmer may find a hint of value in the sing, from Chas. Betts, in the Ohio mer.

If the farmer needs any two qualities more others, as business qualities, it is forecast orce—qualities which will enable him to forward into the coming years, and lay his, and then with a vigor which will over-ride stacks, push them into execution. In any ess where investments are made to-day and is reaped to-morrow, reliance is chiefly on ready capital, and the circumstances e hour. But the case with the farmer is eat. He must exercise forethought; his ations must run through the year, and on sha series of years; and, to be successful, many collateral influences to weigh, and casive one ations a complication of influshich require for their proper adjustment

and direction, the highest skill, judgment and forethought. His success, like one of those mysterious and almost stranger planets, takes ever a varying course, and is sometimes lost to view. But if he is a true Le Veirier, he will count, and weigh, and demonstrate the bearing of all controlling causes, and, with master ability, usher in the grand result."

SHADE TREES IN PASTURE.—Upon the first subject you mention, viz: "should shade tree" be allowed in pasture fields?" there may be, per haps two opinions, but the one most generally held is against shade, nuless it is in the immediate vicinity of water.

Themost important object to be attained in grazing, next to good and plentitul grass, is that the cattle shall be free from any disturbance whatever, and that they shall take as little ex-ercise as possible. In the first place, then if the shade trees are at any distance from the water, the cattle will collect under them, and in hot weather will often stand there until their drinking time arrives, and then run in a body to the water, where they will push and fight for the first drink, and then run back again to the shade. I have seen them do this often. Then again, one of the greatest enemies to fat cattle is the biting-fly, which loves the shade as well as the cattle, and when the latter are huddled together under the shade, they suffer a great deal more annovance and worrying than they do in the open field. I have seen bullocks smart enough to leave the shade and stand in the sun all day, and they seemed to thrive better by it. If, however, a man has a stream running through his field, where the cattle can stand over their knees in water, let him by all means have abundant shade on the banks. His cattle can then stand, their legs protected, and whisk the water over their backs with their tails, and bid defiance to the flies.-R. W. Downman in American Farmer.

APPLES FOR STOCK.—All kinds of stock relish apples during the winter months, almost as much as do children. They will eat them with avidity, and in preference to any grain or roots fed them at the same time. An experiment of feeding stock with, say, half a peck to a horse or cow daily, will soon satisfy any person that they conduce both to the health and spirit of the animal.—Ohio Farmer.

SALT, OR LIME AND SALT, TO PREVENT GRAIN CROPS FROM LODGING.—In looking over our foreign exchanges we not unfrequently meet with passages like the following, from which we infer that the power of salt to strengthen the straw of grain crops, even when the growth has been rendered very luzuriant by guamo or other nitrogenous manures, has been often tested, and is now well established: "When the crop is liable to lodge from a weakness in the straw, three cwt. of salt should be mixed with the

guano. Lime and salt will prove equally beneficial, but this decising is more expensive, while the lime and salt require to be mixed for some weeks previous ro application to the land."

Excessive Cleanliness - Even cleanliness can be exaggerated, as in the case of the Pharisees, and the late Dike of Queensherry, who would wash in nothing but milk. Our own Queen uses distilled water only for her toilet; but this is not a case in point, since it is for the sake o' health, I believe, with her. A sid case however, was that of the lovely princess Alexandrina of Bavaria, who died mad from overcleasiness. It began by extreme serupulousness. At dinner hour she would minutely examine her plate, and if she saw the slig stest speck on it she would send for another. would then turn the napkin round and round to examin: every corn r, and often rise from the table, because she shought she was not served properly in this respect. At last it became a monomalia, till or plates, napkins, dishes, tablecloth, and everything else, she believed she saw nothing but dirt. It weighed on her mind, poor thing; she could not be clan enough, and it drove her to insanity.- English Hand Book of Eliquette.

GLACIERS —Among the most remarkable ob jects on the surface of our earth are the great rivers of ice that are forever slowly creeping down the valleys of the Alps. The globe on which we live is sweeping through a region of intense cold, the warmth which is essential to anmal life extending at farthest but a few miles The rays of the sun, which from its surface. produce the heats of summer, pour through the cold space above without leaving in it any traces of their power, The water which is evaporated from the ocean and rivera, as it floats upward into the cold regions, is there condensed, and, falling upon the summits of the mountains, covers them with deep layers of perpetual snow. As the snow a cumulates in vast masses in the valleys which furrow the steep sides of the mountains, it is pressed downward by its own weight along the valley, and when it rescues the boundary of perpendal frost, it is converied into clear solid ice. From what we know of the properties of ice we should suppose that a mass of it hundreds of feet in thickness, wedged in between the rocky and ragged sides of a crooked valley, would remain immoveably fixed in its position; but careful and repeated experiments show that this is not the case. Professor Forbe = n Edinburgh, by placing rows of stakes acroglacier iolite, and observing them carefully will a oving ascertained that the whole mass w slowly and steadily downward, at the e of a few inches only in 24 hours.

Within a few years glaciers have been thoroughly investigated by Agassiz, Forbes, Tyndall and many others, and hundreds of ob- bly larger circulation this year than evertee

servations of their motions and phenomena has been m de with suitable instruments. It: ound that the motion is more ravid in the mid dle than at the sides, at the surface than at # bottom, in the summer than in the winter-m like rivers of water, glaciers move the me rapidly in the steepest part of their course of motion becoming very slow indeed where their spreads out to fill a broad part of the valle When the earth falls d wn from the eides ofe valley upon the edges of the glaciar, it as there, forming long lines or walls, which a called moraines. When two streams of it unite, the moraines upon the continuus edge come into the middle of the combined street ard thus the glacier in thelower part of its cour becomes marked with rows of earthy math and broken rocks extending lengthwise along When separate mas-es of rock r down from the sides of the valley and rest an the ice, they protect the ice directly beneat them from the action of the sun's rays, and the surface around is melted away, there red remain lifted up in short pillars, presenting very singular appearance. Isolated masses gravel also protect the ice from milting when that around melts away, the mass fallsin a conical form, and thus the glacier become dotted with cones of gravel the hearts of whi are of ice.

As the glacier moves down the mountaining the warm regions, it is melted on the surfa . and thus its vertical depth diminishes ati lower portion, though it generally terminst abrup'ly with an end of considerable thicker a stream of water usually flowing out of a de. cave in the end. In summer this end me' more rapidly than the glacier moves down a the terminus retreats up the valley; but winter the head of the frozen monster is push: downward along the valley, plowing up to round, tearing trees from the earth, and som times crushing in the walls of houses.

The Himilayas and other mountains whi rise into the regions of perpetual frest produ glaciers, as well as the Alps. Near the po the gluciers are sometimes pushed quite intot. sea, when their ends break off and float and forming the icebergs, which are occasions encountered on the voyage from this country

Europe.—Scientific American.

Editorial Notices &c.

A few more Subscribers wanted

We have much pleasure in being able to st Agriculturist has attained a consider wits establishment. Having commenced par however with a largely increased edique have still about a thousand copies on afrom the commencement of the year, and consequently able to fill orders to that rot for he whole volume. If as many of correspondents as possible will favour us with a more orders, they will enable us to district these back numbers in their various localimhere of course they will be of more sertian in our office. We regret that owing a pressure of occupation we are not able yet amounce the list of subscriptions up to 1st the. We hope to be able to do so by next there.

FRESH CLOVER SEED FOR SALE.

BUSHELS OF GOOD CLEAN SEED, Canadian growth.

fice on application and samples sent by lorotherwise. The seed is put up in two hellwags of the best quality, and can be for-led with safety to any part of the country. escriptive catalogues of seeds furnished is to applicants.

JAMES FLEMING,

Seedsman, 350 Yonge Street.

SHORT HORNS.

R SALI!—FIVE BULLS, all entered in American Herd Book. Prices, from 100 to dollars Also, a few HEIFERS, at low 3. Apply to

T. L. HARISON, Morley,

St. Lawrence County, New-York, the Agriculturist office, Toronto.

rch 9, 1861.

6t.

FOR SALE.

FEW pure bred Devon Bulls, Cows, Heifers, Calves, &c., of unquestionable see.

GEO. Z. RYKERT, St. Catharines, C. W.

nil 10th, 1861.

3, C. W. 3,t.

FRESH GARDEN, FIELD and FLOWER Seeds for Spring Sowing.

The Subscriber begs to inform his friends and the public that his stock of Fresh Seeds is now complete, and very extensive, embracing almost

EVERY VARIETY OF SEED

that is adapted to the country. The stock of Agricultural Seeds is large and well selected, and the vitality of each sort being fully tested, the genuineness of the seeds may be fully relied upon.

Merchants and Agriculturial Societies ordering Seeds in bulk will be supplied at wholesale prices. Complete assortments of garden seeds neatly put up in small papers, with directions for sowing, and sold by the box containing 150 papers for \$5. Twenty packages of Flower Seeds, choice sorts, will be sent free by post to any part of the Province, to the address of any party remitting \$1, free of postage, or 25 packages, postage unpaid.

The Subscriber wishing to give parties who reside at a distance an opportunity to test the qualities of his seeds, will on the receipt of \$2, free of postage, send free to any Post Office in Canada, 25 full sized packages of VEGETABLE SEEDS, many of them containing an ounce of seed, and 12 papers of choice FLOWER SEEDS with descriptive catalogue and box included—the seeds to be of my own selection. None but the most useful and desirable varieties will be sent.

Descriptive catalogues of Garden, Field and Flower Seeds furnished gratis to applicants.

JAMES FLEMING, Seedsman to the Agricultural Association of Upper Canada, 350 Yonge Street.

Toronto, April 22, 1861.

9---3t.

SEEDS! SEEDS! SEEDS!

200 BUSHELS WHITE POLAND OATS; weighs 42 lbs. to the bushel.

100 bushels Hungarian Grass.

100 bushels imported Swede Turnip Seed. 200 bushels of Early and Late Potatoes, fine sorts for seed, with a full and general stock of all kinds of Seed for the Farm and Garden.

Descriptive catalogues of Garden, Field and Flower Seeds furnished gratis to applicants.

JAMES FLEMING, Seedsman to the Agricultural Association of Upper Canada, 350 Yonge Street.

Toronto, April 20, 1861.

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THE Subscriber has on hand upwards of a hundred bushels of this new and superior variety of potato to sell for seed.

ALEX. SHAW, Oak Hill, Toronto.

April 15th, 1861.

SEEDS! SEEDS! SEEDS!

TORONTO SEED STORE,

CORNER OF FRONT STREET AND WEST MARKET SQUARE.

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FIELD, GARDEN, AND FLOWER SEEDS,

Comprising large quantities of Turnips, Carrots, Mangel-wurzel, Cabbage, Onion, Parsnip, and everything worthy of cultivation in this latitude. They are all of the best quality and procured from such sources as to warrant their genuineness.

THE SIXTH ANNUAL EDITION OF HIS PRICED CATALOGUE

Of seeds, contains full directions for the treatment of various Seeds and Crops, together with much valuable information regarding this subject, and may be had gratis on application.

It forms a neat little pamphlet of 45 pages, and a perusal of it will show purchasers the advantage of procuring their supply of Seeds from responsible Seedsmen, instead of from parties having no knowledge whatever of the business.

The satisfaction so generally expressed by those with whom he has had the pleasure of dealing heretofore leads him to hope that he will continue to receive a large share of the Public patronage.

Orders per post or otherwise will receive prompt attention, and are are requested to be addressed to

J. A. SIMMERS, Seedsman.

4-t.

4-t.

Toronto, April, 1861.

FOR SALE.

A PURE bred young short horn Bull; Sire and Dam imported in 1857, and both took First Prizes at the Provincial Show in Brantford the same year.

Address, R. R. Bown, Brantford.

N. B. Full blooded cow stock taken in exchange, if desired.

Brantford, April 8th, 1861.

BOARD OF AGRICULTURE.

THE Office of the Board of Agriculture is at the corner of Simcoe and King streets, Toronto, adjoining the Government House. Agriculturists and any others who may be so disposed are invited to call and examine the Library, &c., when convenient.

Hugh C. Thomson,

Toronto, 1861.

Secretary.

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