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## Thty fimmere 勇mant.

## Board of Agriculture, Lower Canada. <br> Montreal, Tueslay, May 13, 1856.

By direction of the President, due notice was giren to the Members of the Board to meet at their Rooms in this city, this day at 11 o'clock, A.M., but there not being a quorum present, an aljourninent took place to the day folloiving, to meet at 10 o'clock, A. M.

Wednestay, $1441 \mathrm{May}, 1856$.
The Board met this diy at 10 o'elock, A.M.-Present:-
A. Pinsonneault, R. N. Wntts, E, J. De Blois, and Janes Thomson, Esqrs,, also J. W. Dawsoh, Esq., Principal of McGill College, and Professor of Agriculture in that Institution.

Mr Thomson, Vicc-President, laving taken the Chair, the Secretary submitted a letter from the Secretary of the Bureau of Agriculture, Toronto-stating the re-eléction of the four Memlers of the Board who retired by rotation-namely; Messrs. Pinsomeeault, Taclí, Thomson, and Dumoulin. Aso, a letter from the Secretary of MeCrill College, Montreal, stating that the Principal of that Colluge had been appointed Professor of Agriculture in that Institution, The Secretary represented that on receiving this intination, he had addressed a letier to Professor Dawson, inviting him to the neeting of the Board this day in that capacity.

It was proposed by Mr. Watts, seconded My Mr. Thomson,

I'bat E. T. De Blois, Esq., he elected President of the Board, but that gentleman having deelined the ajpointurent,
It was proposed by Mr. De Blois, seconded by Mr. Pinsoneault,
That IR. N. Watts, Rsq., be elected President of the Board for the present ycarCarried.
Proposed by Mr. Watts, seconded by Mr. Pinsonncault,
That J. T. De Blois be elected Vicelresident for the present gear-Carried.

It was then Resolved-That the Board learns with regret the cause of the absence of Major Cambell, From this Meeting, and syimpathises sincerely with him in his afliction. It begs to conyey its thanks for his zealous and able conduct as President of the Board for the last three years. The Secretary was instructed to send a copy of this Resolution to Major Camplell.
Whe Secretary placed before the Board a full statement of the accounts. for the past year-and Messrs. Pinsonneault, Thoinson, and Yule, were appointed a Committec to exnmine them, and report to the next meeting of the Board.
The Secretary submitted a copy of the Contract entered into with Messrs. McDougall for erecting the fences and necessary buildings for the Provincial Exhibition at Three Rivers, to take place nextSeptember.

Several applications for Sectional Agri-cultural-Societies, were made to the Board for their sanction.
The following were the decisions on the same:

1. From south and of the Connty of Drummond-not granted. It appears from the oplosition made by the original. Society For Drammond, the it is not adrisable to grant a second Societyifor the current year.
2. Trom the Coninty of Missisquo- not gramed. Notice having been given to the Comty of Missisquai Agricultural Societies, when it should have been given to the County of Rouville Agricultural Societies-the Parishes of St. Thomas and St. George. Corining part of the $K$ gricultural Dirision of the County of Rourille.
3. From the County of Sagienay tro ap phications. First from Malbaie- sanctioned, to be Society No. 2 in that Countr. Second from Baic St. Paul-sanctioned,to be Society No. 3 in that County:-
4. From the County of Stanstend-not grantel. Mr. Bullock to be informed that: the protest against the formation of Soniety No. 2 , is so numeronsly and respectably signed by inhabitants of Stanstead and Hatley, that the Board do not feel themselves justifed in sanctioning its formation:
5. From the County of Dorcliester, ap-. pheation for a third $A$ gricultural Society in that County-sanctioned.
6. From the County of Shefford, application for a hird Agricultural Society-inot granted,-the applicants not having complied with the regulations of the Bonrd. The proposel amendments to the laver nom before the Legislature, if passed, will meet the case for hex year.
7. From Ihree Rivers, County of St. Natice, application for a third Agricultural Society in that Countr-sanctioned:
8. Froin Agriculural Socicty, No. 2, in the, County of Ceinster, to have two parishes added to their limits-not granted. The notice requined by the Resolution of the Board not having been given to Socicty No. 1, the prayer of the application cannot be grantel.
9. Commmications from Agricultural Society, No. 2, Cotnty of 'L'wo Mountaims. Whe Board hare instructed the Secretary to say; that the Board has this day been or-- ganized according to law, and that the communication of the 27 th of December last, has been laid before them. Upon inquiry, the Board find that the question to which it refers, was decided by the former Board, on the 7 th of November last, and that the decision was communicated to the Saciety, which decision the present Board camot now revise. I'his conclusion is the more readily arrived at, as the new law, now before the Legislature, provides for a separate society for each new electoral county.
10. Application from County of Chanplain to sanction a public Granary - orranted for the current year.
11. Application from County of Beauharnois Agricultaral Socicty, No. 2, to be organised as the Socicty for the new Comoty of Chatauguay--not granted, as the new division of Counties is only for representation and muncipul purposes, not for agricultural.
12. Communication from T. H. Charest, Model Fiarm, Nicolet. 'Ihe Board camat at present recommend the establishment of a Model Farm.
13. Communication from Mr. Charnock, Hamilton, on the subject of Draining. Mr. Charnock to be informed that the Board will be lappy to consider any proposed Las that may be laid before it for the purpose, by the Board of Agriculture of "Upper Cinada.
14. Application from Sherbrooke respecting slating (ools missing by the "Sherbrooke Slate Company," and setting forth that they were lost at the late Exslibition held at that place. The Board have made every inquiry, and regret to say they can hear nothing about them.

- 15. Application from the Comity of Berthier Agricultaral Society, to be allowed to establish a Public Granary. Granted for the carrent ycar.

16. Application from the County of Michelieu A gricultural Society No. 2, to be
allowed to buy gypsum instead of seeds. Granted for the current year.
17. Application from Mr. Ossaye to lse paid $£ 1210$ s for seeds and implements for the Model Earm at La Tortue. Mr. Ossaye to be informed that the Board cannot entertain the application.
18. Application from the Secretary, Wm. livans to be paid lis travelling expenses to the Agricultmal Exhibition at Buston hast October. Granted.
19. Communications from Agricultural Societies No. 2 and 3 , in the Comenty of Othan, complaining that the limits of their operations prevented them from obtaining a due proportion of the Goverment allowance to the Comity. The Board on referring to the Census of 1851, is of opinion that the distribution of money has been made in aecordance with the number of the pupulation, and that no change can be made for the present.
20. Application fion the County of Chambly $\Delta$ gricutural Sociely No. 2 , to be allowed to have a Public Ciranary. Ciranted for the current year.
21. Application from Mr. J. C. Spence for 25 for services at the Provincial Exhibition at Sherbrooke last year. Mr. Spence laving sent in an account at the time, was prid the amount in full and signed a receipt. No supplementary account can now be entertained by the Board.
22. Commmication from the Principal of MeGill College in reference to its Agricultuwal Department, and asking for aid in procuring books and apparatus, and in offering prizes and scholarships. The Board direct that Professor Diwson be informed that the state of the funds at the disposal of the Board does not enable it to ofler any assistance; at the same time the objects in view are so very desimble that it is prepared to promise that a sum of fifty pombls currency, be appropriated for these purposes, should any surplus remain in the hands of the Board, after it has settled all claims to whieh it may he liable, arising from the ensuing Provincial Exhibition at 'jhree Rivers.

Resolved-In the opinion of the Board it is highly desirable that as the guardians of the interests of the agriculturists in Lower Canada, they should be consultel on all changes in the Laws relating to agriculture which may be proposed to the Legislature from time to time. It was therefore resolved that the Minister of Agriculture be
especially requested for the future to communicate all contemplated ehanges for the opinion of the Board of Agrisulture, in suffieent time to enable them to assemble and consider the same.

It living been suggested by the President that some of the members of the Board might attend such of the County Shows as may be held at phaces in the vicinity of their respective residenes, diming the ensuing autum, it was resolved that the President commanieate with the difierent members of the Board for the purpose of carying out that suggestion.

The business submitted to the Jown heing all disposed of, the meeting separated.

By Order of the Board.

> Wm. Erans, Secriy-Jreas.
> Board of Agriculume.

Montreal, May 16th, 1856.

## IROT Ereps,

(Second Article.)
In our last we referred to the varieties of root erops, the manures appropriate to them and the manner and time of sowing. But supposing the ground tilledand manured, the seed sown and above ground, and safe from the depredations of the lly, the next question is-how ean the farmer find lime for the subsequent eulture? Th is useless to allompt root culture without a sublicient amount of tillage to keep the ground free from weals, and without eareful attention to thiming. These operations too must be attended to in a busy time, and may interfere with haring. Let us consider then, first, the time for cleaning and thinning.

It is time for cleaning and thiming when the plants are about three inclies ligh, but it may bo a litle earhier or later according to the amonnt of weeds and the thickness of the phants; and by skilliul planning the time may usually be so chosen as not to interfere with the hay crop. Jhis will be all the easier if the farmor las sown his tumips somewhat early, and has his hay land in such condition as not to be burnt up early in the summer. Further, the tendency of rotation and root culture is to the production of heavier lay on a smaller surface, and consequently to redueing the time occupied in summer with the hay crop.

The next process is the ploughing. This may be efiected speedily with a common dight plought, passing it along the drills about two inches from the plants, and throwing the
soin iatn the space between the drills. Some persons at once commence thinning after this phoghing, hut it is betoer after a fow days to rim a enlisator or horse-hon hetween the drills, to stir up the soil and to some cxtent restore it to its place. Others use the horse-hoe alone without any previons phoughing, and this serves the fupose quite well where there are few weeds.

This operation being finishen, every procarable hand must be employed in simgling or thinning, a proeces very speedily performed by skifful workers will proper tools. The proper implement is a thin stee hon, with a light straght hatule, 3 to 4 feet lons. In the Ecotish method, in which the thiming is performed at one operation, the hoe used is 7 inches wide, but where the thiming is preformed at wo oprations it should be only 4. io 5 mohes wide. Inoes aro very cheap, so ho not put elamsy looks inte the hands of thimers.

In laming the worker shonh? stand with one font on each side of the dill next to the ons to be thimsed, and the phants to be removed are eitler guthecl or drawn ont of the difl, (the former is thatly considered the trettei way, leaving simele plamts at say 10 inches apart, or at $\overline{5}$ inches if the thinning is to be finishod at anoher time. Thming turnips is lyght work, hut it requires much skill and cate to leave the phats strgle and yet minjured. In Srothand and England wonen are prefured as fornip singlers, and in America, where the tumip erop ts at all extusively riltivated, melh of the work is done ', y chihren, who, however, are sehtom sutiaiently eareful. Where children or young people are emplojed, premiums should be given to them for the best work. In Efighand it is estimated that one experienced singler can thin hate an aere of turnips in a day of ten hours.

The thinning being finished, the horse-hoe is sent throtgh the trills, and when the singling is completed at ance, another hoeing is given. Whon the plants are only hall thinned at first, the secoad thimingr answers to this, and shond be carefulty done, so as to leave the phatits quite regular, and with theis roots sufhcienty covered. Finally the horse-hoe is aghin met, or the drills are shighty earthed up with the plough. 'The whote work is this reduced to three or four ploughings or horse-hocings, and two handhoeings, and the time oceupied by these last need not, even for an inexperieaced worker,
be estimated at more than three dags per acre.

We close this article with the following instruetive extracts hom l?eters and ste-phens:-

Hocing and Clotaning.-This is the most important part of nomp cuhare, for manme as hoavily as rom ploase, it this is neglected, or cavelessly or inpurlecely done, you will not have a good moj; a fow days delay, carclessness, or imntention bow, will make a diflerence of humdrads of limshels per acre. There is no erop on your fam which can so ill bear delay it this tine as your tumips, and maless you can afforit to throw away the tahour you have expronder, and to forego the benelit of a good supply of turnign for your stock, do this when th shouht le done, and do it well. If you are short handed, lit every man, woman, and clitd, who can lift a boe; or pull a weed, go to work in earnest, and the job will soon be aecomplished; and, what is more, your cinildren will become expert at tumip eutiure, on whieh all successfal faming in this Istand will, before lomg, depend: and remember that a good tumij hoer mever tates his eye from the ground until callud to dinner; recollect his yourself and inpress it on the children, and thene will be no stopping to talk, nor coasing work to gaze at erey basser hy, by which so nuch time is offen lost. 'Ilue method thave foum tost in hoeing, is this: as soon as the leaves are between two and there inelies long, run a plongh between the drills, taking anray the eartif on uach site of within abont wo in hes of the plants, this will make a liftle ridgetet hetween each drill, amb cover up all the weeds; and if the horse boe is ran about a weck aftervaveds, hory will be found quite roten and form a good manmia for the jamd; (some use the horse hoe only, but if there is much yar and weeds, the plough makes the best work.) 'Then set to work with the hand hoes, and thin the plants five inches apart: do not be afraid ofsiriping the roots of the plants, as the more they are exposed the letter ; when the plants are a grod size, and the leaves begin to toum each ather, a second hoting must be given, catting out erery other phant; this will leave thein ten inches asumder, taking awily at the same time any weds that are hetween them. 'This second hoving is very quinkly donc. If the ham is very werily, the horse hoe should be run between the drilis, once before the sucond hoentr, and once after, and this will complete the work.

Thee distance betveen the rous of tumips has been fised, eonventionally no donbt, at twenty-seren inches, which is a rery convenient distance for dritling up the lave in the first phace, with the common or double mould board plough, for dunging it with the ortinary tilt eart, atid for working the implements employed in turnip colture, such as the sowing drills, and the succeeding scuflers and
drill harrows. The distances between the plants should be about twelve inclues for the swedes, and nine inches for yellow turnips ant glohes, and to insure regular and proper distaness, the singitigg of the crap with the boe should be regarded as one of the most important operations when clams your athemtion. For example, 5 Ib. tumips at 9 inches astalitige a crop of 57 tons 12 rwl.; whereas the same weight of twaip, olema ineles apart give only a hale more hlan forty-sewen tons. Now how easy is it for careless people to thin out the plants to deven instad of nime inehes, and get hy so doiner no less than $10!$ tons of turnips are samenced.

Whe may add before leaving this part of the subject, that watering the turnip crop with liguid manure, not only remarkally aids the growih, but is a great safeguard against the depredations of insects.

## CORRESPONDENCE.

## Fon the falimbis jouras b.

Agricullural Communicalions and Agricultwrul Edlucation.
Hemmingfond, Marela $30,1856$.
Sm,-Having seen a wish expressed in yon cohamns, that you conld mect with innre correspondents amongst the Agricultural portion of the inhahitats of the Pro-vines,-1 lake lisis opportuuity of addressinw a few remarks to you. The reason that T conceive yon hive so much difticulty in oltaining communications is fiom the fact lhat fammers in geteral are not a literary chass of men, being composed for the most part of persons who hare emigrated to this commery with limited capital, and who are only now just beginaing to enjoy the benefits resulting from years of continuous labour ant hardship, and from their having been used all their lives to incessant toil, they are litte accustomed to even reading works of a professional naturc, still less of writing upon prolessional suljucts. Now, my object in addressing you mpon the present occasion, is to point out the bemelit which wouk result to the rising gencmation from a more general dillision of the theory and practice of agriculure. It does sem extmordinary to me that of so widely pactised and of so all impontant a profession as laming, so little slould be generally known of its theory and primiples, mbracing as they do so much of themistry, mochonies, and many other subjeess which of themselves require years of stimy to become masters of ; and that no sfeps are taken to provide any $i+f$ formation whatever on a subjert which aflects alike the interest of every member of the communty. Now, 1 think that something might be done to improve mitters, if a library of walt selectud works were attached to each Apricultural Soricty throughout the Prorince, and lurther inforination might be pro
pagated by the institution of courses of lectures through the different Townshijs which might be delivered by competent persons, under the direction and supervision of the Board of Agriculture, and recciving a recompense from Government grants. I do not think lant at the present time the country is in a fit state for the erection of agricultural colleges or schools, as labour is so valuable that farmers would be unable to spare their sons away from home for a sullicient lime to prove really useful to them. But as the government is now exlibiting every hadable desire to encourage education in general. I think that some portion of their funds might be very usetully laid out in promotitig this special braneh, either by the means 1 have pointed oul or by estiblishing classes for that purpose in dillerent schools throughout ench district. That the ignorance on these matters is a crying eril, there is no doubt, and if some initiatory steps are only taken, the best and casiest system of carrying out eduestion in this branch on a wider basis, would then be disenvered. The only dififulty 1 see, is getting any person to move in the matter, for, if once madertaken, I am cortain that the people would glatly a vail dicmselves of any means readily hrought within their reach, and wonder that they had got along as they have done so long blundering in the tark.

I hare the honour to remain your obedient servant,

Fannels Drumanona Tulpora. W. Evans, Esq.

To the Proprietor of the Farmer's Journal, ATontreal.
My Dear Sin,-T beg to hand you inclosed, an excellent letter, addressed to me by Francis Drummond Fulford, Esq., of H:Iemmingford, supposing, I presume, that T was connected wilh the Frarmer's Jomrnal. - May I hope you will be pleased to gire it insertion in your valuable paper.
I perfuetly concur with Mr. Fulford, as to the cause of the dificulty of obtaining communatations from agriculturists for your Tournal,-1 experienced the same difliculty for many years, while thad the mangement of the Agricultural Journal. Mr. Frulford's suggestion in regard to Agricultural Education, and Arricultural Lectures, is entitled to favourable consideration, but I fear, it will not receive the attention it deserves. I have frequently eudeavoured to attrart attention to the same subject, but with little success. It is very commendable in Mr. Fulford, taking so much interest in our agriculture, and to write such a letier as the euclosed. I hope this example may act as an encomragenent to other educated, and respectable young men, to give their views ou the same subject. It would be a great advantage to agriculture, if it was to become a favorite occupation here, as it is in Britain. Yery truly yours, WM. Evass. Montreal, April, 1856.

There is no doubt much truth in the reatsons alduced above by our Correspondent for the paucity of agricultural communications. We frust, however, that our readers will bear in mind that in such matters we attach far more value to sound practical facts than to mevely literary merit. We would also remind then that the winter evenings of Canda afiord to the farmer muel time for mental improvement, as well as for making, known to ohers the results of his experience.

All colighiencd agricullurists must agree with our Comespondent in desiring better provision for education in the theory and practice of farming. We are aware, however, that much difference of view exists as to the means by which this can be obtained. Por our own part, we hohi that, not one only, but many means must be employed. The country may not yet be prepared for the establistunent of proper Agricultural Colleges and Sehools in comnection with Moden Trams. We canuot doult howerer, that even now the Legislature would act wisely in providing for at least one such institution in Lower Canadi. Under skilliad management it would form a centre aud nuckeus for all other eliorts. In the menn time, we may at least have the following agencius-(1) Our Thiversities and Colleges might establish classes in agriculture, oficring their advantages on easy terms to young farmers during the winter months, and if they require aid for this purpose, the Board of Agriculture might assist either by giving bounties or seholarships to the most strecessful papil, or by providing the necessary apparatus, \&c. (2) Agriculural chemistry shouth be taught to the pupil-teachers in our contemphated Normal Schools. They might then, with the aid of text books which may be readily obtained, teach this subject in their schools or open creuing classes. (3) These agencies could scarecly fail to produce some young men qualified to become itinerant lecturers maler the Jioard of Agriculture. Provided with a portable apparatus, ther might in the winter months pass from settlenent to setlement, bringing before the mental rision of young and old the new lights whish modern science has cast on the most ancient of arts. (4) Under the auspices of such men, and of other educated agriculturists, meetings for discussion might be organised in conneetion with the Local Socicties; and Farmers' Chus and Libraries
might be establisted. (Tastly) Isectures and discussons in such metings might be mublisheel in our Tounal, for the encouragement of others and the dillusion of new farts in agriculture. Suel agencies, atting and re-acting on each orher, will constitute a combined effort in the direction of improved agriculture lhat must speedify be felt throughont the Province. Iet any of our hgher institutions of learning institute in the next winter a school of sciemtific agriculture, let the subject be thorouglly tauglt in the Normal Sehools which we hope will be in operation before the close of this year, and let the Board of Agricuhure devote a small sum to ad in such efforts in ony way that circumstances may render expedient, and the point of the wedge will be entered.

## Onions ami Squashes,

We camot say that we have much expericuce in cultivating onions or spuashes on the large seale; but the suecess chronieled in the following uxtmat from the Marsachussetts Plorghmam, shows that under tho care of our New Eugland neighbous, these vegetables, fom no small somre of prolit. The manure used was sta-weed, but well roted manure or compost with a dressing of guano, woullahnost exacily represent this.
Mr. Brown had eiglat aeres of hand in onions: the largest lot containing albout threc and a hall acres. This is in the underdained feed exhibited in the 'Jransactions of the Society for 1S54. A prition of this lot, (riz, that part which before mender-draining, was covered with stagnant water much of the year,) say from one-fourth to one-half an acre, has now upon it the greatest yielu of onions, beyond all controversy, erer rased in the county of Essex. Nr. B.'s estimate I believe was 1000 bushels to the acre for this spot. I eannot estimate it at less than that, and indeed find I hat marked on ing memoraudum as high as 1200 to the acre for the spot referred to; and in my present estimate of 1000 bushels I anm fully sustained by sereral gentlemen, 'Irustees of the Socicty, who visited, and examined this iield just before the outions were pulled. They were then lying upon the ground and perliaps secen to better alvantage. This amazing yibld, it is true, is confined to a comparatively small snot; but if the whole eight acres shall be found to have less than 5000 bushels of marketable onions, I slatil be disappointed. The average would be 62.5 bushacls, and as that anomit has not unfrequently been reached in the county, I camot believe it too high. The mamre was chiedly the tlecomposed kelp before mentioned, ploughed in wilh a strall quantity of
courpost manure. Mr. ]3.'s usual quantity of the kelp is 8 to 10 cords to the acte, but in $185 \%$ lie pul on 12 cords per acre, and undonbtedly that extra anount is felt in this year's crop although some lields lave sultered by the drompht.

A lesson is 10 . be fearned from the fact, that tpon one side of the under-dramed field, for prerhaps thirty rods, the hast year's crop was turnips-and there the onion top is yet somewhat green; but where the onion follows a currot crop, it is mearly as lipe as when following amions themselves. The onion rows in this and all other luts, are fourteen inches apart.

Other fields in onions presented crops every way equal to the one above described, with the exception of the guarte: or hath acre pardiculaly deseribed. One of these fields, now partly in grass, was taken out of the pasture in 1836 .

Mr. J3rown has live acres in squashes. One meabured acre las this year produed ten wagon loads, of one ton cach. 'The squashes are now all stored in lofts well rentilated, lying two deep, and they afford a sight worle any man's ride of a dozen miles to Marheliead to see. Of the live acres in squashes, two are of the pure Mintrow. 'hlose weighed thirteen tons, and they are a splendid exhibition of this delicious reactable. Of another squash, however, resembling the Marow, but regarded by Mr. Brown as interior to it, being a mixture of the Marrow and Thelian squasi, he has produced 133 tons from one acre! It can be afionded for two-thirds, or perlmps half the gried of the Marrow. On inguiry, it appeats that the destructive yellow bug, so dreaded everywhere, and which is usually destroyed by killing, troubles Mh. .B. but little. Tle uses lime. A cask or more is shacked in the usual way, only as atry as possible, and white $n$ is hot is sown broadcast, in a tavorable wime, over the vines.

## Fish Manare and Mman Refuse

All animal remains furnish very rich manures, and are especially valuable when mixed with a large quantity of earth or mould, through which their fertilizing properties become diflused, and in which, by theis action on the air and on the materials of the mould itself, they develope neir materials for enricling the soil. The following article from the Transactions of the Ilighhand and Agricultural Society, may give some useful hints on this subject.

Although the importance of all sorts of animal matier as a manure has long been familiar, and has been frequently insistet on both by science and practice, the inmense quantity of stech refuse has hitherto become very partially available. The main difliculty which has stood in the way of their profitable application has been the want of a good process by which they can be converted in.
to a porlable form. The enormous quantifies of fish-refuse ammally produced in Newfoundlaud, and eren on some parts of our own coasts, has been freguently pointed out as a somre from which agriculture might derive raluable assistance. Considerable interest was excited some time sinee by the proposal of various methods by which the desirable object of rendering fish olfal portable might be attained, and very important rusults were anticipated from them. As yet these anticipations lave not been fulibled, material diliculties having been oncombtered in carrying most of the processes into operation on the large seale, some of the plans proposed having prored too expensive in practice, while others are so ohvionsly unpractical that no one has been lound willings to invest capital in carrying them out. The error in most eases has lain in the employment of expensive machinery, which the conditions mader which such a manulacture mast be carried out may be said to preclude. It is probable that the quantity of fish oflial to be obtained at any one spot will not generally be very harge, and will be collected at one period of the year, so that the machinery woudd requite to be sullicient to work up with rapidity the whole of the offal produced, and would lie idle during the rest of the yenr. It is in some suclis way that most of the plans have litherto failed; hut I have recently analysed a sampie made by a patent process, which is said to be simple and inexpensive; and should the manufacture yiek on the large suale a material of unilorm quality, and equal to that I have examined, it will undoubtedly prove a vely important addition to the list of ammonitical manures.

The manure wask in the form of a yellowish powder, in grains about the size of fine oatmeal, remarkably uniform in appearance, rery dry, and almost devoid ol smell. Its composition was:-

| Water, | 8.00 |
| :---: | :---: |
| Fatty matters, | 7.20 |
| Nitrogenous organic matters, | 71.16 |
| Phosphate of lime, | S.70 |
| Alkaline salts, | 3.80 |
| Stlica, | 0.84 |
|  | 100.00 |
| Nitrogen, | 11.25 |
| Eypal to ammonia, | 13.65 |

Phosphoric acid in the alkaline salts equal to 1.411 phosphate of lime, 0.65

This analysis recalls 10 mind that of a flesh manure manufactured by Messrs 'Iumbull \& Company of Clasgow, an amalysis of which appears in the Transactions of the Society (New Scries, vol. v., p. 203.)

There can be no doubt, that if fish manure, of equally good quality, can be produced, a large demand for it will soon be created. It is, in fact, a very valuable manure, and its price may be estimated very readily, according to the mode employed for Peruvian guano, by taking the commercial value of cach of its important manurial
constituents as derived from other sources. The values usmally adopted by chemists have been at the rate of 0 gid per lb . for phosphates, and Gdper lb. for ammonia; or, expressed in tons, $\boldsymbol{x} 6$ for the fommer, and $\mathcal{E} 56$ per ton for the latter. Upon this plan, and takmg all the phosphates mater ome catogory, we estimate the value ol 100 tons of the fish manure as follows:-

10.11 of phosphate of lime, at $26, .60$

Talue of 100 tons, . . . . $\operatorname{ES2} 6$ or almost exactly $x$ ES per ton ; and this will probably be its average value. At the present time, howover, owing to the high price of bones and ammonia, its value would considerably exceed this. Sulphate of ammonia is now selling at 216 per ton, and at this price ammonia is worlli $E 64$, and phosphate of lime can scarcely be reckoned under $\mathcal{E} 10$ per ton, bones at present selling as high as $£ 6$ or eren $\mathscr{E} 10$ s. If these data be taken for caleulation, the value of fish mamre comes to be:-
13.68 of ammonia at $\mathbf{E} 64$ of $\dot{f} 10$. 5S75
10.11 of phosphate of line at $\mathcal{E} 10$,

Value of 100 tons,
$£ 975$ or $£ 9$ jos per ton.

In connection with this subject, it may be well to observe, that there are miny sourecs of animal matter which must, at the present moment, lie entirely wasted, aldiough they might, with a little management; be turned to good account. Of these perliaps the mosit prominent is the blood and other ofial of slaughter-houses in our small towns and villages. In the larger towns the blood is collected, although not very carefully, and finds its way to certain classes of mambatetories in which it is cmployed; but in countiy places it is for the most part allowed to escape. It would be a matter of some interest to ascertain the annual value of the blood and olfal thus lost, which is undoubtedly very large, and a great part of which might easily be saved by a very small expenditure of care. Such, however, is the carelessness of the workmen employed in slaughterhouses, that I have been informed, that eren in the large towns it is with difficulty that they can be persuaded to save the blood, although its price is really considerable. Fresh blood contains nitrogen equal to about 3 per cent. of ammonia, and is worth about 2d per gallon, or nearly $\mathfrak{L 2}$ per ton; and any farmer living near a small town might advantageously contract to take the whole of the blood at this price.

There are many other sources of animal matters which will at once occur to our readers as available for manures. Of these we may particularize the refuse of glue and oil-boiling works, which yied annually a considerable quantity of nitrogenous oflal; and the two analyses of seal and glue refuse which follow will show that, even when they are prepared without much care, they may become useful manures:-


The large quantity of asth in these cases is due to the admisture of carthy matters for the purpose of drying up and rendering portable the animal matter; and thongh this has not been done in tie most stitiable manner, the value of the manure is about live times as great as that of good farmyand matnure.

## Reccipes and kood Things,

A" farmer's wife" sent the following good things to the Rural Nele Yorker, From which joirnal we copy them:-

Cruckers.-Thirie quarts thour, 1 cm of butter, 1 pint water, 1 tablespoon salt. Pound until the dough smaps.

Another.-One pint of cold water, 1 teacup of hard, a little salt, 2 teaspoous of soda (or saleratus)-dissolved in a litte vinegar ; work in four with jour hands until quite lard; bake in a quirk oven.

Dorghtnuts. - Take 7 coffee cups of bread dongh when light, mex into one and a half cups of melted lard, with one of sugar, and a teaspoonful of saleratus; when it has again become light, roll it out, cut into what shape you please, and boil in hint lard. 'To succeed well, the dough should be mised with milk.

A vory Nice Fruit Cale.-One pound sugar, half a pound of bitter, 4 egess, 1 teacup of sweet mith, 31 cups of flour, 1 teaspoon of saleratus, intmeg, cinamon anal cloves-as many raisins as you can afinerd.

Cup Cale.-Tive cupis of sifted tivur, 21 cups of white sugar, 6 eges, 1 etp of butter, 1 of sour eream, 1 teaspoon of soda, nutnerg. If swect milk is used iustead of sour cream, put in two teaspoons of cretum of tirtar.

Hard Gingerbread. -Tvo cups of molasses, 1 of buttermilk, S tablespons of melted lard or butter, 4 leaspons of sallemitus, 6 of ginger, a little sall, flour enough to roll (nol very liard.)

Cinnamon Cakes.-One cup of sugar, 1 of molasses, 1 of butter, 1 tablespoo: of ginger, 1 of cinnamon, 1 of salematus, dissolved in half a eup water-flour conowh to roll ; to be rolled very thin and cut in round cakes.

Cookies.-I'wo cups of butter, 212 of sugar, 4 eggs , half a teaspoonful of sateralus, caraway seed, hour enough to roll-made very thin.

Cream Cookies.-Two eggs, 2 eups of sugar, half a cup of butter, hall a cup of sour cream, 1 teaspoon of saleratus, caraway seed, 2 tenspoons tream of tartar-hour enough to roll.

These receipes $T$ lave usel for some time, and find none belter. If persons who try
them do not suceed, they must blane themselves atone, if they have good material.

## Truning áphe Tres.

Now, don't, kind reader turn up your nose, because yutr theory differs from mine. What does the dnetor do when he amputates a leig ! O. he dresses it carefully as possible. Very well. So do 1 dress a limb of a tree after it is saved off, and enmmon sense requires it as mach in one case as in the other. But I find it pleasant, as well as convenient, on a leisure day to go out and tim ofl the shoots and dead bramehes, and whea a wato day comes in spring; t go all ores the oreliard with a ball of gratting Fas. or sone shailac dissolred in atcolol, and cover every wound. If you are not willing to dor this, then don't prome till the leaves are ser, or, which is, perhaps hetter, till September or Outober, which with me is a very hasy season. I sea where I have pactised proming and dressing in years past, as I have deseribel, that the bark is lively. and the healing process is going on all around the wound, a point of the greatest importance. Bly theory on this subject, is to take eare aul dress your wounds, make them when you will.-Cor. N. E. Furmer.

## Mant your Potatons Wariyo

Let those who are not yut satisfeed that this is a good rube, plant a lew rows or a swail patel as soon as the soll is dry enough to work well, and the balance of the land intended for this crop cither all at onee a few weeks afterwards, or in prortions at intervals of a week or so between each planting. Of each planting lea a square rod or same othe. area or measure be taken, and let the result at harvest-tine, both as to quantity and quality, be carefully noted. The result, W: are conilident, will prove interestiag and i siructive, not only to those who try the experinemt, iou also to many who, like oursolvers, would be glad to have a repiort of the expriments and the results given to the publi- through this pajer.

Until suchexperiments are made, and the results made publicly known, those who endeavor to conform their practice to be best aserrtinued facts, or best establisted rules, will phat early. EXp, Periments have already been made in sufticient munher and with sulflicient aceurary, to make it alnott a setided mitter that potatoes phanted as soon as the soil is mellow and dry, will yield a more athandint and someder crop than the same bind of potatoes on the same or sinilar soil, when planted 10,20 , or 30 days later. The most satisfactory of such experiments which have been reported to the public are those of Mr. H. 17. Eastman, of Marshall, Oneidi, Co., N. Y.e a smmary of whose various experiments in rotato culture may be found in the vols. of The Comitry Gentleman, and The Cultivator for 1555. For the sake of those who have not these vols. at
hend, we nay siry that to west the question of early, medium, and late planting, one plat was planted, in 13n2, on the 18th of May, another on the e3d or hay, and another on Tune Sth, and these plots yinded respertwely at the rate of 142, 131, and 100 busluls per acre. The experiment was again tried in 1553 , and resulted as lefore in favor of early planting. While those planted May 9ut yiothed 104 loushus, those phantid May 30 th gave hat 70 bustuls, and thase pitaned as late as June 18 th gave onily 45 hust:els per acre.

Previonsly to the javarion of the tot, potatoes were generally phated in June; bat the old rule must now be lain aside, and he new one at the head of this artirle sulstituted in its place, in ord r to sectre the best erops.-Cowntry Gentleman.

Gond and Tel Tubatamy of Hems. -Hens, we find, are like soils and some other things with which the farmer has to. do,-they treat him very much as he treats them. If he treat them in a liberal and generous manuer, they make hiun quite libural and generous moturns. If he neghert them, or provide for them but sparinoty, the ectuns they make will be correspmodingly seany.

All this one may he aware of, may readly aseent to, and yet may practice as if repeated experineses hat never cominmed its truth. Wie lare long been hatuly persmaded of the trubt of the proposition with whirl we legam, viz., that hens will founth eggs rery nearly in the same meane that llay are firnistued with lood, linue, \&c. \&c.; hut this truth nevar made the drep impression which it did when some facts siving evidunce and illustration of it were broughtu unter more immediate obervatim. The lired man at ouc plare was worliug and conversing with the lired man on another fam, when one of then happesed to mention someding in regard to the nire tges whinh he had erevy day. The other suit: that at the house where lee lived they had seareely had an egs all wintro.
This great dilierence in two ncighboring foeks having attracted ourateminu we mate some ingurites as to the modes of management, and in the difierence in that resperet we found a completre explanation of the dilference hetween half of : whote llock baying every diy through the winter, and anobler flock of ihe stme breeds furvishing barify : siugle layer. In almost every particular in the management of these two neiphboring tlocks there was a very marked contrist. For example, white the one had only a small space in the upliper part of a prety ofrin stible into which hoth wind and snow could find therir way quite freely, the other lock had their ronsting place in a wam, will sheltered bari-cellay which was open to the: south, and closed on all the ohber sides. And while the one was thus much bether defended against the winds and colla of wintry nights thou the other, there was as great a
confrast in their opportunities for comfort during the day. While the one had nowhere to scrateh or exercise during the fong months while the earth was covered with snow, save the top of the manare leap, or the inside of the stable white the catlie were out of it during the day; the other flock had abomance of room and chane to serateb and exercise in lots of lime and gravel and leathed ashes with which the floor of the open collar was lepet well supplied. Ihen, again, white the note never hat a drop of drink of any kind, the ather had water, and inilk wath pieces of buckwheat cakes, potatoos, and other fragments from the table scaked in it, every lay. And, as to food, while the one had ouly a smatl portion of com once a day, the ot:er had a great variety, and that regularly twice a day. To provide the fowls of the latier look with lime so essemial to the formation of shells, they were supplied with a shovelfil every day from a barge box of lime, sand and gravel, which had been provided for this purpose, before winter, and also with egsshells pounded and nixed with other freigments from the table. The reason why eggs were senree in the one ease and plenty in the other, was obvious enough when these itens in treatment were made known.Country Gentleman.
Talur of Unine.-An experiment which goos lier towards demonstrating the great value and eflieacy of wine when ased matmurially, was publisthed not long since in an English paper. We present it in the atsthor's own worts:-

A box of fine white sand was exposed to a heat sulficiently intense to dissipate its moisture and destroy every particle of orgamized matter it contameal. It was then placed in a dry situation, and some spelis of the tigyptian wheat being planted in it, the whole mass was salurated with urine in a state of incipient putrility. 'The result of the experiment was that the wheat regetated -greev rapidly through the seasm, and in antum, rather before the maturation of the same grain in the open fiedds, produced a remarkeble yiutd of line and welf developed grain. 'The application of the liquid was made weekly during the season."
Such lacts lave an important signilicance, and slinuts be recorded and carcfulsy pondered ly the agriculturist.

Winclham, Mc., April, 1 s 50.
[In our last we gave a method for snving and applying urine and other liquid manures. The above experinent is an excellent evidence of their efliciency in the growth of wheat. Let any farmer who is sowing wheat on land not likely to yield a large crop, try the method on a large scale, by weekly, or as often as conrenient, going over every allernate ridge with a watering cart and liquid manure. We shall be glad
in autumn to have a statement of the yield of two neighbouring ridges; and we think we can venture an assurance that the experiment will be found to pay.]

Thick and Then Smemig Oats.Tinst.jear about the close of $A$ pril, $]$ soved $12 \frac{1}{2}$ acres to oats. Jight acres had been plamed to corn the year previous, and onefialf of it manured with stable manure, which was plowed under in the fall. Of the remander, 2 aeres were after onts, and 21 clover sol, broken up just butore sowing. Ihle whole was plowed fiom nise to ten inches deep with a Miclagan donble plow, and in good though not extra order.

The outs I sowed broadeast at the rate of $2!$ bushels per acre. We harrested 740 bushels by measure, and 1 doubt very muel if a larger yiedd would have been the result had less seed been sown. The straw was large and the onts on the sward, which was the richest part of the land, lay flat on the gromin. Tor the field, which is the poorest on the larm, I think the crop an extra good oine. Four correspondent "B," from less than 2 bushels harrested orbout 40 per acre -we, from 21, nearly 60 . His experinent dees not prove the theory of thin seeding truc ; nor docs mine disprove it. There are two sides to the question.-Rural. New Yorkcr.

## Meleorology,

The philosophic minded Batan has said that it is the province of man to interpret nature. There is certainly no more worthy study for the rellective mind than to trace the laws which guide the ever-varying changes of the atmophere. To the agriculturist, these are peculiarly interestitg, as it is upon climatic conditions, no less than those of the soil, that the suceess of any cultivation is dependent. With an extended knowledge of the climate conditions of any district, it is doubtiess possible to so select varieties of any of our cultivatedplants, as to extend the region which is at present ileemed its profitable limit of cultivation. A better acquantance wish the chander of the elimate would prevent most of those mistakes which are daily committed hy agriculturists, who, familiar with the system of cultivation of one district, and believing it equally applieable to others, mike the experiment, and find themselvos disappointed. Hence lailare followed by loss, which, when persevered in, almost invariably leads to an irrecoverable sinking of the tenant's capital. It the climatic laws were hetter understond, the peculiar system of cultiration pursued in a distriet-doubtless the result of the experience of mariy, and the gatherings, as it were, of success out of numerous fiilures-could be explained, and suggestions made for the further develonment or improvement of the systems. The kuowledge thus obtained
conld be rendered a a ailable in introducing improved systems of culture to any district. Climatic causes operate with equal, if not greater power, upou animal life. That remarkably correct olserier of Nattre's plenomena, Shakespere, makes frequent refercnce to this.

To understand the larguagr, and to interpret trathfully the plysinal combinations wbich produce wind and rain, rapour and cloud, Jeat amb cold, it is necessary to collect fact after fact, and, as it were, lefter after letter, to form syllables , aud ly this gradual process, acquive that elementary information, which will coable us to read the volume which is spread before us. I3ut to attain'to suceess, a certain uniformity must be observed, and the collecting of data must be mudertaken in a methodical and well armanged phan. Not only ment uniformity be observcd in the noting, but the instruments employed must be similar in construction, phaced under the same circumstances, ind, as far as possible, without any disturbing ciuses.

In the foumal diAgriculture Pratique, ]aris, there are publistied monthy the meteorological observations made over the various parts of limace, which seem to embrace a wile area. The system which is there followed, aplears to us very complete, and with a silght change might be adrantageonsly adopted by observers in this country. It would liamilitate observations, were printed schedules upon this plan issued. The first column contains the date of the month, the second the clanges of the moon, and for each class of olservations, there are separate tables, each being provided with the same two introductory columns. The fill of rain is intimated by decimal comentitres. : The sumlight is marked by dots; these, when bright, show uninterrupted sunlight; one-half obscure represents partial sumlight ; and dark, total obscaration. Thander storms are added to these columns-a circular figure, with two diagomal lines, representing stomms. The direction of the wind is indicated by letters, corresponding In the initial letters of the direction. 'The thermometer is marked by the two extremes. At the cml of these tables are given notes containing any remarkable phenomenon which has been observed, and the editor adds one or two tables, showing the extremes of temperature, and some other points deducible from the returns. Those interested in the subject, can examine these tables as published in the French Journal, and if the Association is to take steps to carry ont a system of observation over the whole of Scotland, some such method as has been indicated above, might be resolved on. In the meantime, we would recommend to agriculturists to take more interest in the successful prosecution of meteorological observations than has hitherto been bestowed on this depmartment of natural philosophy.North British, Agrioulturist.
.a. TO DESTROY bARK LICE.
Thake shong lye, and put in it as unch salt as will disnolve, and wash the bark of the trees with it by moans of a brush or swab. It will kill the lice, and they will soon rub off. The best time to apply it is in the sping belore the bods start, as it will kill the young leaves. It will answer any time, il kept from the leaves.
[Another way is to serape the bark, then wash with line, and dig in aromed the roots a quantity of well rotted manure, to give a vigorous growth. We have fontad this treatment capable of reviving trees appircully nearly dead fiom the spreat of the bark lice.]

NEW ENGLAN FARMEAS' WIVES.

- Perhaps the following lesson may not be useless in Canada:-
'linifly beings they are, and in their anxiety to do their whole duty by hard-working husbands, with a self-denial too little appreciated eren by its objects, they wear their lives away in endless and pitıless drudgery. Pride is mearly as muel concerned in the matter, as aflection. ' 'lo pride of the house-keeper-whici in this overllowing land lores to provile an actually wasteful protusion of substantials and "good things" for a lamily of chiddren and farm-assistants. And the pride of hearing on one pair of shoulders the burden of two or theee, and at the same time of loing everything a litile better than anybody else conuld do it. This is the peculiar pride of an American, whether inan or woman- to clo. heep doing, and do well. Under its pressure many a Yaukee mother, amidst the rugged bills of her native lamel, many a country house-wife in the fertile dis-tricts of the middle States, the wile of anay a sickly pioneer in the westurn country, has consumed her hest years, bearing all things and comphaming never. There is somethmg noble in the sulf-sumbilies. We would not discomrage economy nor deery labour. Bua. let the mother of a family remember the duties she owes herself and her chitdren. as well as the tashs expected at her hands. Let the liusband be careful to lighten and alleviate them, Let him not compel her to find the straw, as well as fill to full tale of brick.


## Agricalture in Lowcr Canada,

If any proof was required to convinen us that Lower Canada was cipable of producing excellent wheat, barley, onts, peas, bunds, timotly seed, fec., the Exhibition of these grains on the 25th of March, in the Bonsetours Market, at the instance of the County of Montreal Agrimultural Society, would demonstrate the fact in the most satisfa lory manner. The samples, which, I belirve, consisted of about 20 bushels each, were numerous, nad I may contidenly say, there never has been a better show of these grains
in this couniry, than upon that necasion. 'There was no wheat exbibited except spring three months' wheat, of the variety Fife and Black Sca, all of which were of very superior guality, clean and unmixed. Of courst, spring wheat coudd not be expected to connpeto in appearance with choice samples of tail wheat ; hut with this exception, 1 have no hesitation in stating lhat the grain of every deseription exlibiled on the or casion alluded to, would compete faromably, and, I have no doubt, successfully, with any samples of the same varieties that could be produced in Canada West, or in tle Uniled Slates. I have hat opportunties of seeing exhibitions of grain in hoth countries, and, as I have stated, with the exception of fall wheat, 1 hare un doubl Lower Canada cam compete successfully with any part of North $A$ merica in the production of any other grain, and also in hay, and every variety of root crops. I admired particularly the samples ex hibited, for their perfect cleamess, and appearance of being unmixed. The Montreal Agricultural Society are entitled to the thanks of the agriculturists for this judicious move, and I hope they will bare an annual exlibition. The premiums paid were very liberal, and amounted to about E45. The greater part of the grain was the production of the Island of Montreal, though the first prize whent was from the Tsle Jesus. I alhule to this cxlibition of grain as an encouragement to agricalturists to introduce improvements in their system of lushandry, where it may be required, as it must be in every instance where there is not farourable and remunerating results obtained from farming. We may be assured, if we take the trouble to enquire, that the cacellent samples of grain exhibited at Nontread on the 95 of March, was not produced by chance, but that in every instance, good samples resulted from skillul and judieious cultivation and manmgement; and any farmer who desires to produce simifar samples of good grain, will be certain to suceerd, provided he adopts the same skitfull and judicious cultivation and mangement of his land. These are cevilent facts that cannot be controverted. The suecessful agriculturist has the same climate, and generally no better soil than the most unsucerssful agriculturist, and, therefore, the very diferent results obtained by each from their land and labour, resuits solely from the cultivation and management of the snil. Farmers need not expect to cxcuse their want of success, by complaining of insufficient capial, Nec. I have known many persons lere, who, with scarceIy any eapital to commonce with, have succeeded in making themselves very confortable, if not independent, and altogether by their skill, industry, and good managoment in agiculture. Any extuses for badimanagement in the practice of agriculture should not be admissible, while better manarement is possible. It is quite absurd for a farmer, when he witnesses the successful practice of another farme:, to suppose that he could not
adopt the same practice. The feeling that. should animate and predominate with every andeulturist ought to be a desire to agual, if not excel, those formers who practice a judicious and sucecssful system amongst them. J cannot undersiand why any farmer should rest contented with raising only onethird or one-hall the produse, whirl he sees another larmer can raise with the same climate, and on soil that is not matuaily beiter than his own. If I see my neightione's land well drained, well pourhed, sublirintly manured, good erops growing upon it, free from all weeds, live stock of lair guality, provided with suliciont pastare-while my own land is not well drained, is not plonghed in the best maner, has not an adepmote and regular supply of manure judicionsty applied, my crops not very ammiant or chan of weeds, my live stock not of gomel qualicy, or sufficient pasturage, surely I camol be at any loss to account for the different results ohtained by my neighbour and myself. Hence it would appear, that there is not in reality any excuse that our system of agriculture is not generally better thin it is. I am sorry to be obliged to admit, that what we should understand as good farming, is the exception, and not the rule in Lower Canada; nevertheless, there are sufficient specimens or examples of good lirming in every district, to show whal it is, for our instruction, and this remores all grownd for excuse for continuing a defective system of husbandry, because we can sue before us contimally, the practice, and the results obtained from grood busbandry to encourage us to follow the example. It may probahly surjrise farmers, when I tell them, that the productions which are obtaned from the most defective system of hashander, and the least expenditure of labour and rapital, costs the farmer more per bushel, than the produetion which resuits lrom the most perfeet system of agrieulture, and the ample but necessary, and judicions expenditure of rapial and labour, practised in Canada. 'lhie famer who is able to raise a produce of 30 bushels of wheat per acre, and of other crops in the same proportion, can to this at less expense per bushel, than it will cast the farmer per bushel, that will only mise 8 or 10 bushels of whent per acre, and of other coops in propmotion. If we compare the avernge produce olstaned per arre by one of our best farmers, with the average per acre obtained by the great bulle of Canadian agriculturists, who practice a defective system, we shall be able to form some estimate of the great advantage of a grod system, and the very great loss to the conntry gememily, which results from a defective system of agriculfure. I would be the last who would recomnend a large and extravagat expenditure of labour and capital in agraculture, because I know that heyond a certain limit it would not be expedient or profitable to do so. In fact, capital should ouly he applied as far as its employment lower's the cast of agricultural production. This is the grand
secret of all improvenent, and where the cost of produetion is not atilually diminished in proportion to the expenditure, I would not consider it an inprovement in agriculture. T'be skilful agriculturalist, who employs eapital or labour judicionsly in the cullivation of hand, is sure to diminish the cost of prontuetion, or is I hefore observed, he will raise a quantity of produce from his land and labour thas will not cost him near so much in proportion to quantity, as it will cost the farmer, in proportion to guantity, who mises the least produre. In the present circhmstamees of Camada, if we desire to mantain the credit of the enountry, and the high charaeter we have attained, the improvement of agrin ulture is no longer a matter of choice or fancy, but a mather of comparative necessity. All the great things that have been done for us, and the line things that have been said of us, will be of little avail, if we do not help oursulves, by making a good use of what has been done for the eneonragement of agriculture, and thas proving that we are not unworthy of the high character we bave athamed with the world. We should endeavour to come up to the full standard of perfection in our system of agriculture, when we have abundant examples of a system that is very near perfertion. I think 1 an perfeenly justified in stating, that upon a well managed agrieulamal establishment, of which there are a great many to be seen in the Juitish Jsies. if not in Camoda, the practical arl of agriculare, in every department, including the managementi of land, the live stock, and the implements amployed, are as well understood, ambl brought to as great perlection, as is the produce of any ther art or manmeture practised in Britain. The inprovements in agrieulture are decidedly yood, boh as regards the inmease of quantity and the improvement of quality, amd this is more that can be satdia redation to all oller ants and mannfactures. There is no manalacture practised by man that can compare wits an agricultural mannfactory that is well ronducted, in the excellemes and pertection of its prodewtions. There is no deectit or deception in a fine ammal, or in the productions of a well mamaged field or garden. I have never sem any of the products of manulacture brought to so great perfertion, and so free from deterination, as the prodicts obtained from a perfect system of agriculture,-where the animals of every variety are of perfect form, and adaptation for their several uses,-and the products of the fiefd. of the finest quality, with. out any deterionating mixture. We cannot bring our oxen to the size of elephants, nor would it be adrisable il we could do so,nor call we bring the groin of wheat to be the size of a horse bean, and I believe it woull not be an improvement if we did. A nimals, and fied proluctions are, however, hronglit to a high derree of excellence, if not to actual perfection, and if this can be accomplished by many agriculturists, I cannot see why it should not be possible to all,
who would employ the same means, with a favonble climite, and a naturally good soil. I mention these circumstances because agricolturists are often`taunted as being behind this nue of progrese, in the innrovement of their atf. No doubt many farmers are very buckwari, indeed, in adopiang the necessary improvements in their system of husbandry; bui I am persuaded, nevertheless, that apriculture in momerous instances, has attaned greater perfection than any obler manufacture that we are aequainted with. I'lis is an important point achiceved, in favour of general improvement. Aud it is no wonder that agricultare shoufd hare been bronght to this great perfection. In the Britisti Isles, the best educated and the most wealily of the commmity are engaged in agriculture. and connecting science with practice, work it out in the most julicious and successfin manner: and hos, by their capital, experiments, and example, instruct and encourage tenant farmers to adopt improvements that are proved to be advantageous. I'his is a pronf of the vast importance of education to agricultural improvement. Without any wish to give the slightest offence, T may submit that uneducated men certainly may he indused to alopt inprorements which they can see practised successiully and profitably before them; but improvements in agriculture sildom originate with them, thought they may work them ont when they have a good example before them. Agrienlare is a seience thut e:an be best explained by actual experiments in the fiedd, and il would not have attaiped to anything approaching its present pertection in Britain, were it not for the lead taken by the wealthy and educated, by having these experiments judiciously mate, both in the frek, and in the management of their flocks and berds. It is from these circumatances only that agrientare, in all its branches, is brought to greater perfection in Jritain than in any other country, so that it las become the admination and example of all the civilized nations of the carth.

The suhject of education las been fully discussed lately in the Jegislative Assembly; but $I$ was surprised to see no allusion to the necessity that agricultural instruction slonld be directly provited for in the system proposed. No wonder our youth shovid not estimate very bighly the occupation of the agriculturist, or regard it as a respectable profession. He perceives from lis childlhood that education is highly prized, and considered aetually necessary for the successful practice of any respectable profession, or cren handirvafi thade: but for the oceupation of the farmer it does not appear to be an essential qualification, and he therefore despises such a profession, as only fitted for the most ignorant and illiterate. I have frequently endeavored to show the injurious effect on agriculture that the youth of the country, who do receive education, are more disposed to other prolessions than to be agricufturists. 'This I attribute partly to the
course of education they receive, wherein the science and practice of agriculture is never mentioned or alluded to, no more than if there was no sueh suience to be lenrued; also, to the circumstance of wiluessing in mumerous instances the delective practies, and unfavorable ami umprotitable results obtained from agricaliure All these causes operate urfavarably upon educated young men, and lead them to suppose that farming is only fit for the ignorant and laborions, on' for the weathy clases, who engage in it for the pheasures and ambements of a country life, and work the farm by hired haborers. It must appear strange that, attongh livesixths of our population have to make then living by agrieulture, there is no dibuct means provided for instrueting them in the suience ami art of agricalture, exeept what they may learo from those who are not the most apable of instructing then. Every other profession and occupation las a suitable education provided, that bas direet reference to their future pursuits, while agriculture is denied any similar abrantage. Schools for the rumal population should at least be furnished with standard and suitable books on the science and art of agriculture, and these books shoulal form a pant of the study of every male scholar. 'Ihere are excenlent Agrinentural Catechismis, and other books on the suliject mighe be selected which would be plaim and easy to comprehemel. At atl remots, such hooks woudd convince ibe seholars that there were means of teaching the seience and art of agriculture as well as any ohber art or protession, and it migh have the eflect of giving many a taste for agriculthe, and a devire to maderstamd it thoroughly, which they are never likely to leel, if their entacation has no relerence whatever to it. We should atso have properly qualified persons to deliver practical lectures on the subject at atl our colleges and schools. Howerer agriculture may be despised and neglecterl, it is an oncupation, above all others, which we camot. do without, and therefore it: will be for the general benclit of the commmity that it showd be understood and practiced in the most perfeet manuer that is possible ; and if we are in carnest in ow desires that our agriculture should improve and thontish, we must give it imporfance and respectability by a direct educifion for it at our schools and colleges. Of course the properly educated can duly appreviate the importance and respectability of agriculare, and do not require to be told that it is the most important and most bonorable, because it is the most useliul and necessary of any art or profession practised by mankind, and is more particularly dependent for successful results upon the goodness of the Creator,-after man has excented properly the part which falls to his lot to perform.

1 have now endeavored to give a truthful picture of the present state of agriculture in Lower Canada, and offered suggestions for its amelioration. Many parties who take
the tronible to read my communieation may think Thave made matters appear in a mone unta comble fight than they are in roality, and I wish sincerely that I may have done st, and there will be less necessity for inplowement. I haje bad frequent oprortmities of know. ing ibe country, and the stock and erops of the firmers, and could not butp imanining how much ronn there was for infrovement. and what a great adumbege it would be to make the required inprovements. 'lhroughout the Valley of the sit. Lawrence, and in mais other sections of the combiry, the genemal quality of the lam, and its adapation to agrieufture camot be surpassed in any part of North Anerica, and there cannot be any donbe whaterer that a large proportion of this hand is not manged to the hest adrantare, and does not juoduce anything near what it is eapable of profuenge. We are most amxions for the extersion of commerce and trade, and I adrocate the improventat of agriculdure as the only eertain means to promoteand support commerce and trade, by the increased anmal produce it would create. Stadic in foreign productions will never angment to any great extent the eremeral wealth of a country, and we mity assure ourselves that the woblth of Camada will chicfly depend upon her own produrtions, obtained from ther land. It is these productions which direedy and indireetly provide the means for maing almost all the clams agaiust the comatry, whether for revenue, or imported gonds. From any other source except the land, ne noed not expeet muen assistance it hais country toder existing ciremmsaness. If this propositios. be ahmitted, amd I link it canmot be risputed, how moch does it behoove every lover of his comitry to lemd his ait, and every inthence be ean exereise, in promoting inprovements in which all are interested. I wish it was in my power to indnee others to virw this subjeet in the same light I do. If it was a political subject, or anj other on which l. might be mistaken, 1 . would not presume 10 have kept it constantly before the publie, as I have done, for the hast quarter of a centary.. It may be replied to me, that if iny views, or suggestion I presume to ofles, were considered of that importance which I attach to them, they would be inmmediately acted upon by those who hare the power to do all that is necessaty lor agricultural ingrovement.

We have many able men in Canada, who could do wonders. ior angiculture, if they would only be perstaded that they could not devole their talents or elojuenee to any subject of so mush inuportance to the whole Canadian commanity. Perhaps it may not be thought oflensive, if I express my regret. that when reading the debses in our ${ }^{3}$ roviucial larliament, and admiting the eloquenee of many of the speeches reported, I searcely ever meet with one sentence that has any reference to agriculture, or its state, and requirements. As the humble adrucate for agriculture, it would be a most gratify-
ing "siun of the tines" if $]$ could only see a smatiportion of the eloquenee expemded on other subjects given to the cathe of agriculture, and to terommend its improvement to the rami population. If this poptelation was only to learn, that then remersentives in Parliament acoupicd themedres with the considemation of the inemests of agriculture, abal made efognent specehes uton ils rast importance, and the atrantages to be derived from its improvemment to the uttermost, we should soon sete a chame for the beter, and the occupation of the larmer regarded with more favour. Our Legishature may certainly hate numerots inferests to occupy beir altention to, but I lumbly conceive that there is not one of these interests, that is to be compared in insportance with that ol agriculture, whith is the ocompation of the proat majority of those who have elected the mombers of the Seristative As-sembly-and as their representatives, agriealure is entitled to every possible athention to its inturests so fin as they can be promoted, without injustice to any other intrerests.

I cannot better or more apropriately conctude this commanication, than by copying a few lines from a late number of that excellent newspaper- The Mark Lane ISpmoss. Tinmors 1 know are gencralds disposed to feel profound gratitude to the chearon for his never fibling groodness, in the ammal increase of their bud, their loocks, and their herds - which has continued from the ereation of man, to the presut tianeand they maly with periect condidenee vely ugun a continuance of the same goodness." 11 e shond f. el that we had fery madequately noticed this period of the yen if wo neglested to remind our reaters, of the agricultural class, of the sontet: from which they derive their prosperity, ant the power on whom it depends. The lamer ahove all other men, musi feel how helpless he is alter all his ellorts to secure his own welfare, or insure the safety of his crops. A blast of wind, a tempesi, vegetable pestilence, may in one shorl day lay his hopes prostate, and defeat his best aranged phans. On the other hand, gratitude for the past and hope for the future, multit to lill every heart, and constitute a motive for incrased eforts, and enterprise. Whiks with humility we should recognize the hand of a supentending Providence, we should consider who it is that lias given us faculties and powers for use, and not for inaction or abuse. That we should holis "plough and sow in hope" as if all doponded uran ourselves, beatiog the event to lim who hath assured us that "while the earlin remaineth; seed time and barvest, day and night, summer and winter, shall not cease."

What more can I say, or rather ought I to say. I may have been too bold, il onsuch a subject, I could be too bold. However, if I have said anything oflensive I hope I may be pardoned, because my only motive is the good of my country. Wa, Evans.

Cote St. Paul, Nay, 1856.

##  elab,

## fitchen gamoner.

The second regnar meremp for diseussion of this Club sas held on Tueshay, 18th March. 'Jhero was a moderate altendance of gentlemen present ; the President, Mr. Allan, and several other leading members being untortunately abent from unavoidable rauses. Mr. James Pleming, one of the Vice-Presidents, otenpied the elanir. The subjeet for disewsion, "The importance of libtehen Gardens as an appentage to Farm llomes " was introfuced by Mr. Mandie, Landseape Gardener, of this city, whose interesting paiers we regret we cannot inser in full. Our space will emble us to give the pratical directions, only. The imbodtuelory remarks on the value and importance of the genden and its produeds, as well as the couclating argmaents by which Mr. M. enforced his theme, were excecdingly wetl put. Those who may wish to see the entire paper will fand it in the Colousist of the egnd Miatel.

A kitcleen garden of the present laty, may be delined as a piece of land fenced in and set apart for the growth of reputables. roots, herbes, aid small fruits for cooking or kitchen purposes as the mame of the garden inplies. The term small fruts, comprobends the various sorts of goosebernios, curvants, raspberries, strawberries, crablerrits, Ne.

In choosing it piese of lant to hy out a kitchen garden, the situation should not be rery liat nor very elevated. Tu very low situations, the moisture of the almosphere remders the eraps of all sorm more liable to be injured by frost, and on very high !atul the cathine winds of spring and eardy stamaer aro abo inguine; !am blossom and yeung froit are often damaged, as aho the leaves of tender vegreables ami phanas of allatescriptions, when in a foung and growing state.

A piece of moderately light hand, sloping very gently towards the Soull or SouthLast, avoiding the extremes of sitiation mentioned abore, will mader good management give every satisfacion. $\Delta$ point to the Eash will give inereased carliness.
'The farmers', or conbtry kitehen garden, (and of which I am more pariarularly spaking) should be near the dwelling house, and should ocenpy a position if olherwise applicable, partly between the dwelling and barn or stock yard. .ll so silmated; it will be convenient to manne, conyenient for gatloering regetables at all times, and adso conrenient to cuitivate, allowing every half hour to be employed to the best adrantage.

I'he size of the gatden shonht be renulated according to the wants of the lamily; for a finmily of six persons, half an acre will not be too much, and tor any larger number the ground may be increased in proportion; always bearing in mind, that a small garden reguiring to be crowded, is more dilficult to keep that a larger spate where diere is roon for proper regulation and rotation.

The shape of the garden may be adapted fo evistine circamatinees, bat if otherwise applicable, a quadrangular, or an oblong spare can be cropmed and entivated to mort: adrantage than irreguar forms, whela should only be alopted in case of mecessity, rither from the fand or other dithentlies whieh cannot bee controlled.

The lencing is better to be elose, to the Evom side, and prolly so on the East and Wiest mads; at shelter of trees outside the parden lenee on the North side, NorthEasi, and Mrorth-West corners, should be misisel as soois as possible. 'Jhe diferent lends ol evergreen trees (such as tha balsam hi:, the Notway spruce, the hembocis spruee, and the dikeren rarieties of cethar) will best answer the purpose at least those trees next the fence shoulif be of this kind. Thry give mont shafler at the line when it is most wanted. and their roots and branches are not so troublesome in undermining or overhanning the borders, as deciduous trees, or those trees which throw their leaves erey suason.

The frat slep towards the cultivation of the space which may thas have heen set apart and fenced lor a kituleng garden, is, to dian it thoroughly ; some situations and soils there are which may mit require the operalion, lont those are mare exceptions; and as a generate rult, mosily all soils will be benetited by draining. Ithe extent to which this may he necersary. mest be determined by the nature of the soil to be operated upon; however, there is no fear of overdoing as the arore drains there are pat in, the neaver perfection will the garden be; and on no accotna should dmaning be neglected when the garden is lajing ont, as if onee it is phated aud furnishod, dmaning cannot be done so woll; nor can it be thone at all, without undoins and destroying much that may have been atready accomplished.

Having selecthd a point of outlet for the drabage water of some of the lowest comers, an! from whence a sufiecent fall or rom can be got to camy it off; a main dowin shonht lan be led thoug the lowest side, to receive water from the hateral or banch abains, which shoula be sn had out as to cata or intoreept the mational sug or trituration of the water in the land, that is always going on from the higher to the lower hevels. The dmans shoulal be extended through the border of the shetter trues on the outside of the fente, whish being on the North side of the garilen will consergeently he the highest, and the point from whence the water proceads.

In most cases the drains will answer a;iry arary purpose intented, if dug about thee fert in depth; fuisling the boitom to a araled slope or rum, in the divection to which the land lialls. The best materials for permaneney are stone, or draining tiles; but no one should he detered from proceedng beranse he cannol obtain any one material, as although the materiats above mentioned are the most durable, yet good substitutes
may le found in either fence mails or bush woind, any of whirh if well put in and carefully covered with a lough green furf as all drainage for trituration should be) will dain the had eftectually for a periot of from forty to lifty years.

The whote garden and tree border outside, should then be subtreached, 10 a depth of nor less than two liet ; preserviug difteen inches in depelh of the oripint surface soil ifron the fuished surface ; he subsoil below this fifteen incles shouht be durs and loosened to the desined denth, hut heft in the botiom of the trench (hence the term subtrenehing, and fifiecn imehes of the son from the surface of the next french thrown on the top of the loosened subsoii, atul so on until the whole is linisleed.

The benetits of this subtrenchiug are manifold; it allows the sumpratmandant water io percolate eanily and puickly through the soil to the dains, leaving a decply loosened porous boty ol soil fully saturated wib moisfure, bum never to stapnite or get sour. It allows a prifecty free circulation of air lusat, and other atmosplaeric influeners, to pass into and throngh the soil, more misfare is retained and helal in solution daring diry weather ; the braporated moisture from the bottom (which in shallow soils is hrompht to the sinface and absorbed inte the atmosphere) being absorbed and retained hy the tepth of soil, in its passage upward, a small surphis only passing of by slow degrees into the armozplies.

The roots of alf plants and vegetables penetrate this loose soil to such a depth, as that even doning long continuanes of dry weather, they are sektom or never what we woud call bame or seorched; and having at greater range of pasture, they are much inereased in size and ralue. But this is not all, their properties are also guite different: is from being produced upon a soif perfeedy drained and ventiated (so to spicak) and which allows all the organic elements free scope to play a part in their growlh and maturity: we may be well assured that they are superior 10 the productions of an undrained, untrenelied, sour soil, as a man who feeds upon grood, wholenome, well prepared fool, and lodges in a well drained, well rentilated house, taking sulficient exeroise, is sujerior to a man who lives upon inert matter, and lotges $m$ in ill drained, ill reatilated house, taking little or no exercise. (The cultiation of the surlace represents esercise.)

When the trenching is finished and the surface brotgoht to a graded level, the walks shoul, next be marked out. Cross walks may be put to to divide into convenient sized quarlers, but one main walk all round the garden, at about from nine to twelve feet from the fence inside is essentially necessary, because the borders next the fence being on some sides the warmest, and on others the stadiest, sloould be oecupied with all kinds of sumall early and late erops, to cultivate and to gather which, it is necessary
to have riady access at all times from a main walls.

Gooseberies, matans,and mopherries, with probably a dway pear in enrh corner (to hreak the sameness which would otherwise prevail) should octupy a border of abont live ferd wide, round eneh quarter, the bushes to be set in one line, about sis leat apary, along the centre of this howner ; the bharls curtant aud gooseberry in the shatlest places. Raspbervics stonth have a siluatien opens to the star most part of the day, is otherwise the wood will be winter killed. 'They may be planted thres: feet apht in lim. Strawbertes will do bevi in one ai the opra quarters, they should lo renewead by replanting crery second or that year, and always on a fresh gutrier. IWharb and aspatagn may be adratageondy pantod in two exposures, the one in the sum, and the other in the shade; by athating to this, the suasn of thess mosi exceflent regetahiles will be prolonged. The gromed for those should be mate very rich with ohl and wel! rotied manure; to be right, the manure and soil should be hald and balf.

I would not recomment planting flowers alours the fruit borders, as fiey dyaw of the nourishment liom and deterioriate the guality of the froit, at the same time, from their tendency to nowish weeds and to habour the seedes of weeds, they are the caluse ol the bushes and edgings being so over-fun, as perhaps from a temponary neglect to get beyond all ${ }^{\prime}$ ossibiliiy of ever being claned. The walks of a garden of hat an acre should be ubont four feet sis inches wide, and so in proportion to harger andens. The soil from the walks to the degith of from six to right inchess shoutd be thrown upon the borters and quarters of the garden and the space so estatrated, lillod in with hroheth stone and grawel on the top, or with the best hard taterial for making walls, which may be within the reach and means of the ownen.

Gond eutivation includes not only the entire extirpation of all weots as soon as they appear, but also, (ind more especially in dry weather ) licquent stimings of the whole of the surface of the ground, in the borders, and among the varions crops as they adrance in growti. ']t this be allemded to, it will ant largely as a prevertive of weeds germinating, and also open the surlace of the soil, encouraging the acirculation of the air, as lefore spoken of, to proceed more freely, which is of essential benclit to all growing crops.

In some measure corresponding to these meliminary remarks, there must bean antount of preparatory lahour hefore a kitchen garden can be expected to he either satisfactory er productive, and to any one not acquainted with the operations thus described, especialby if they view the whole of the various improvements at once, garden making on this standard will appear to be a formidable business: but by directing the attention to each part of the work separately, and pros. ecuting that at all convenient fimes until
finished in the best manncr, and so on in succession proceeding systematically, I do not hesitate to say, (and that even to a farmer whose hands are sometimes pretty full,) that the work may be aceomplished, without much incourenience, and all the more easily fyom knowing, that by doing it in this thorough maner suecessiful results are certain.

From a good kitehen garden attached to a farmer's or other countly house, and laving been prepared as above stated, the owner with his family may engoy a large portion of cither finit or vegetable diet wery day in the year ; but that ean only be accomphished by carefully attending to the sowing and planting, cultivating and gathering, storing and preserving, all the various proluctions at their proper imes amel seasons; yel, when this is gone ahout systematically (proper conveniences being provided) it will rather result in being, in a great measure, a pleasure than a toil.

As early as the end of $A$ pril or at furthest in May, asparagus, thutharb, winter spinach, lettuce, radishes, and top onions, may he gathered in profusion. When at the same time, from the former years stores may be supplied, turnijs, carrots, beets, onions, parsnips, kidney heans, and cabbages, if they had been preserved in pits, with dried parsley and ails the varieties of seasoniug herbs such as mint, sige, lyssop, marjoratn thyme, savory, Ne.; mal also preserved fruits and celery. with the varinus speries of squash, and gourls will have been in use.

1 have inentioned the months of Aprilame May, because most people know that in those two months vegetables are scarcer than during any other period of the year ; yet during those two months we have here a very good variety, all plain to be sure, but rery valuable as an addition to a family sliet: and 1 have taken particular care not to put down anything but what is quite easy and practicable to have at the season spoken of.

The saving efleeted from the addition of a plentiful supply of roots and vegetables to a family diet, will at the year's enil be a very large item; as by that means, more of the products of the dairy and poultry yaril, with flour and flesh meat of all kinds may be marketed ; but the saviug in pnint of economy is only a suall portion of the benefit resulting from a proper mixture of vegetables with the aliment of a family.

The humerous varieties offered for sale by gardeners and seedsmen, sometines perplex the purchaser, and it often happens that the best are not chosen. The committee appointed to make the following list was composed of gentlemen well qualified for the purpose. Their names are Professors Croft and Buckland, and Messrs. Fleming, Mundie, Leslie and Gordon, practical gardeners:neport.
The Committee appointed at the meeting
of the Club, to make out a list of the most uiseful and best kinds of vegetable seeds, roots, and small fruits, (with their proper names), to be appanded to Mr. Mundie's piper, have recommended the following varieties as heing the inost suitable for the propese. 'They are all of the best kinds that are now in cultivation for general crops (taking their qualities and productiveness into accomint.)
IThey are placed in the order of their earliness, and also of their merit, and can be obtamed from any regular seedsman or nurseryman by the mames given in this list.

Teyetables.
Name.
Asparagus-Giant.
Fidhey Bean-Yellow Six Weeks.
" lied Specked.
" Scarlet Rumers.
Bect Root-Early Turnip rooted.
Long Blooi.
Caulifouer-DEarly Lomion.
Late Trench.
Carrot-Early Horn.
" Red Altringham.
Cabbage (summor)-Tarly York (small.)
"" " Endifild Narket.
(autumnt)-Shilling's Gueen.
" Large York.
(winter)-Quintil.

* Flat Dutch.
". Sawny DwarrCurled.
" Red Dutch (pickling.)
Celery-Thed Soiid.
White Solid.
Cucumber-Short Green.
Toug Green.
Lettuce-Mallese.
Vietoria Cablage.
Mrusk Mclon-Scarlet Flesh Cantelupe.
" Green " Nutmeg.
Water Melon-Loug Island.
Onion-Linge Yellow.
Crpsicums-Large Yellow.
Parsley-Douila Curled.
Parsuip-Dutch Hollow Cromned.
Peas-Marly Kent.
" Jlue Inperisal.
" White Marrowfat.
Rulishes--Scablet Shart Top.
" Long Salmon.
" Red Turnip Rooted.
" White "
" Black Spanish (for winter,)
11hutharb-Myatt's Victoria.
"~" Albert.
Spuash-Scolloped Bush Squash.
" Boston Summer.
Potatocs-TLady June.
" Gold Finder.
" Shaw's Seculing.
Spinach-Round Tealed.
" Prickly Seeded.
Tomato-Large Red.
I'urnip-Early White Stone.
" Golden Ball.

```
Merus-Sage.
            Thyme.
            Summer Savory.
            Swert Basil.
    " Sweut Majoram.
            smabi, prums.
Currants-Black Linglish.
                                    :* Naples.
                Tied Duteh.
            " Grape.
            * Victoria.
            White Grape.
Ruspuerrics-S Cd Fastolf.
    ": "Antwerp.
Goosebcmics-Red Asiton.
                                    ". Warrington.
                                    " Ironmonger.
                                    " Crown Bob.
                                    White Wlitesmith.
                                    " Tagle.
                                    " Caroline.
                                    Yellow Giolden Drop.
                                    " Lyon.
                                    Grem Ocean.
                                    " Lungleys.
                                    " Gascoigne.
                                    ":Willov.
                " Jaurel.
Strawberies- Early Searlet.
    "
Grape Vine-Tsabolla (black.)
            Sweet Waler (white.)
```

Note.-Asparagus and Rhubab, when it is possible, should be purchased in roots; seeds may be need when rools eannot he had, only it should be borne in mind, that as regarts thathath, seeds will sellom produce the " same varicty from whic! they were taken, the plants so mised bueig almost always a hybrid sort, and that by asing two year ollt asparagus plants, just so much time will be gained, unless where there may be the convenience of a hot-bed or frame. It will generally be found best to purchase celery in plants insteal of seeds.

Round Spinach for summer may be sown as soon as possible in Spring ; one or two suctessive crops may loe sown at from three to four weels intervals alierwards.
Prickly Spinach, to stand the winter, should be sown about the middle or during the latter half of September. It will come into use with the first growih in Spring, and will last until the spring sowing comes in.
Peas should be sown at dfferen! times, to produce a succession of cropis, saly the first early sort as soon as the frost breaks up in spring, the second sort about tinee wecks later, and the third sort from three to four weeks later still ; always proportioning the quantities to the probable wants of the family during the time that each sort may be in seasom.
In dry wealher, such sceds as peas, beans, radishes, turnips, carrots, parsuips, de., should be soakel in soft water from 12 to 20
bours before buing sown; this will mane their roming uf. Jis the cetse of thmipes a good plan is to soak hall the seed and sow mixed with the uther lind unsoaked. This will gre fwo disfinct baids, and conserpentIf two chaneses aginst the Hy. 'The seed must not be kent ouer alfer having been sorked.

The Agriculture of the Troneh Eahibition. By John Wilson, R. H.S.E. T. (r. S., Sce. Professor ol' Ampiculture in the Unirevsity of Edinhurgh. Edinburgh: Adam \& Charles black. 18.50.

## From the Canadectm. Journal.

The work which stamds at the head of this artiele was prepared in the form of a lecture, and delivered by the athor to bis Agricultural elass in the University of Thal inburgh. Prolessor Witson is farorably known on this side of the duantic. He was appointed one of the J3ritish Commissioners to the New York ladustrial Exhibition in 1S5e, when he athented the Prorinemat Bhows of both sectiens of this Provines. Camado is moner what obligations to him for the interest he took in our department of the limalon lixhlubiton, in 18:51, and the favomable disposition he has subsequently shown towards Cimadian productions, hoth in the Paris Exhinition, and with reference to their introduction 10 the Crystal Talace at Sydenham. The British departmant of Agryentare in the Paris Exposition was curbusted to his care, and he was also appointed a Juror in the general examination and adjudication of a mards, We need scarcely sity, therefore, that Trofesson Wilson must be highly qualifed, from previons acquirenents and professional duties, to speak and write on the Agricoltare of the French bxhibition. We proceed to hay before our realers a fow facts and statements relating to this department, gleaned principally from his lecture.

Ilhe Agriculture of France continues as yet very delective in reference to two of its most important dematments, drainimer, and the use of spocial manatics. 'The former, l'potessor Wilson says, is daily becoming more appreciatoh, and some few plans of drainge were exhibited, with a compabative statement of results. $A$ Erench writer on agriculture, who has adready established a Thuropean reputation, Leonce de Lavergne, observes in a mecent number of the Recute cles Deven MIoneles: "That with badly worked and buelly manmed fiehis as is still the ease with three fourths of Euance, deainage can produce but little good eflect. Great progress has to be made in most districts before that. 'Jher adoption of a good rotation costs less, and may prove as productive. I'hen comes the employment of some improved implements, as a good plough, a good harrow, threshing by machinery, and the use of improvers for the soil."

Guano till quite recently has been but
very sparingly used in Trance. During the lerst sir memide of 185 s , out of $22 \mathrm{a}, 000$ tons exported from Ilic Chinetha lshands, 113,000 went to England, 98,000 th the United States, ami only jefss to France. Tn 185̃, howerer, limace imported 100,000 tons of this valuable tertiliser. Considerable attention seems lately to have been given in that conntry to the mamfature of attificial mamures, several of which were exhibited. "Of these," the Professors remarks one, the Pish Guano-

* Parficularly clamed attention, inasmueh as the practicability of the mandacture was Jatedy the subjeet of much disenssion in seigntile as well as in commercial ciredes. It was mandiactured, I was informed, tyon a consilemble scate, the process diblering somewhat from that suggested in this combtry. The fish, cither the refuse of the marlet or ollerwise, is cat into pieces, and submitted to the action of high pressure stemen (four or fire atmospleres) in suinable vessels, for about an hous. It is by that time sunticiemly conked, and is then ready for the presses, whel exped a great proportion of the water, and leave the resitue in the form of a eake. This sake is, ly means of a coarse rasp or grating machine, broken up into a sort of pulp, which is spread ont in thin layers on canvass, and difed by means of warm eurreuts of air. It is sold nither in this state or more miminty divided hy incans of the ordinary griming processes. Ti is slated in this condition to eorrespond to $9 ?$ per cent. of the crule weight of the fish, and to contuin from 10 to 12 per cent. of nitronen, and from 161022 per cent. of phosphate. Thu price was 20 franes per 100 kilogrammes (ahont $£ 8$ per $\{0 n$, and the demandregularly increasing. Prohably there are few phaces where this manufacture could be camied out more advantageously than along the northeast coant of this combtry, where both the raw materials,--fish and lud,-ire so abundantl; provided; and I certainly think the simple process of the "Ingrais Poisson" is more economical than and prefurable to the processes hitherto recommended."

In the agrieutharal implement department there was an extensive display, but nothing parlicularly novel or superior to what had been previously celilitited elsewhere. 'I'here were no less than 350 exlibitors, whose productions as might be expected indieated very different orders of merit.
"The practical trials of the implements were of a somewhat integular:and jrotracted character. Those coming immediately thder the adjudication of the Agricultural Thry were carried out satisfatorily, considering the dificultius attendant upon the operations of such a large number of machines and implements, most tillering from, and many of them entirely new to the agriculture of the land. The trials ocrasioned considerable excitement,- cach time the country sent its representatives from far and near. Ministers of State and lmervel

Commissioners, with their Presitent, the Prinee Napoleon, Arals ehicef, and foreiguers from all parts of the globe, rame to see the experiments; while the presence of a batalion and a brigude, with bimir matial necompaniments, conferred a nonolly, if not a charm, upon the tield. Alter all, these warlike acempaniments formed a striking background for such a living pieture of the praceful ants. The results of all these comparative trials wall be oflicially made known by the Tary. The chamater of the langlish implements was well sustained. in none per haps more than in the ploughing trials, when the dynamometer showed. Ibar white it required only a force uqual to 17.01, to turn over a corkain quembity of earth in a cortaize time, with the best Einglish plough, it required a foree of more that 27 to do the same work with the bost French one, and 32.3 with the hest lielgitn plough. Bany other ploughts were tested, some brequiring a loree of ( $\mathbf{i 0}, \mathrm{SO}$, and imbed nearly 100 , so that practirally one horse witl: the Euglish plound woud be as efticient as forer or five herses attached to some of the other phonels. In die triak of Reaping Alachines, the Americans were ench lime victorious; the work was admirably done. An English and a Camadian machine, on $\overline{3}$ c/l's principle were lored to withuraw from some derangement of the working goar. These machines, frow the is economy of labor, and rapidity and excedlence of work, appeared to produce a great elfeet upon the erowds who witnessed their opemtions. I fear, however, that the agricultare of France is not sulliciently advanced for their successfal introduction. What Palinditus said of old, is equaliy crue now,--What thry are only to he used when the liedls are large, and the surface level,and these are cortainly not the present conditions of Trathee."
"Of all implements," says M. de Tavergne," the most necessary is the most difficult to perfect: Here is not such a thing as a perfect plougri, and it is very doubtlul if it be possible to find one which shath satisfy every condition. All the plonghs were tried by the jury ; those which did ipparently the best with the least draught, were, the English Honvarl, the Anericam [Camadian] Bingham, the Belgian Odewrs, and the Erench Frignon. As the experiment shewed no very marked superimity in any, it is probsble that each mation will keep to its own. That which is defective and inporfect in the work of the plough has to be supplied by other implements; as scariliems, diggers, harrows and rollers. For these the superionity of the lionglish is incontestable. Nohhiug can match Garrett's cineasc, Colman's weeder, and the Norwegian harrow and clod crusher of Crosskill. I'hese superior implements are now copied in Prance, as far as the light mice of iron and the means of our cultivistors athnils."

In the trial of implements we unlerstand that Mouse's plough, manafactured at Mil: ton in Upper Canada, stood next to Howard's
in Hightness of dranght and quality of work, then cane Jinghan's, an iron flongh, the irons of whinh wers not polished like Morse's -a areumstance that will, to some extemt at least, account for the small difieremes of draunht on a lirs trial. These two ponghs wore purchased with many other artioles by the Chnadian Covernment, and trausmitted to the Frunels Exbibition. It is momall honor for the diughter to be but slighily excefled by the mollur, in that most aneient, important and chatacteristicgmplement, the plough.

In the fourth seetion, relating to the produce of cultivated coros, the first and foremost phate is assimned to the Preneh Colony of $\Lambda$ guma, whirh, after heing for many years dapendent for at consideratile portion of its food and a drag on the inother country, -ims been changed hy the adoption of an imfinned system of tillage, into a large expmlem of the nucessaries and of sone of the lusuries of life. But Alonera is sot withont her rivals. Professor Wilson remates:
"Rivalling the line sampless of hard whent from Algeria, were the athite wheats of Anstratia, 'Jamamia, tha Cape, Comada, amd Sweden. France, Spain and Befgitm also exhibited beaniliul wheats, boll white and red; white the red wheats of Yortugel were very hiuhly commended. Austria mad biaden bolt furnished very compretumsive and well arranged collestions of agericulatial produre, and hae quatity of the wheat exdibuted by 'I'whes shewed the richatss of lier soil, while the dirty mmarketable condition testitied to the want of care of its inhathitants. Denmark, Sweden, Canada, and Aungary exhibiterd the fitest samples of - broloys; ame I'asmama sent a sample of onts equal 10 any in the buiding. The specinens of mazize were verj numerons athi of ahmable guality; the finest perhans were from Algeria, Canada, Anstalia, Porbugh, Limgrary, and Styria. Raye and buckeohert, two crops latedy hown as beead rorn in this combtry were contributed by France, Bohema, Demmark, Sweden, and Canala, in which countries they are very largely consumed. Eanples of rice were contributed by South Carolina, of remarkaWhe size and cotor ; Algiers, Poritgal, luscany, and the Vontifual States atso exhibitad iteer profuce. Bavaria, Bohemin, amb Brhaium sent fine collections of hops of superion quatity. Camada also exbihited gamples showiner a marked improvenment in quatity since 185!. 'ITue advanced state of the flax cultivation in France, Holland, Belgium, and Austria, was well represented; from cach commy an extensive serjes of samples of varions pratities, and in the difterent stages of prepuration was sont. The tobaceo specimens, $I$ was informed, were of estraordinary quality, in many cases, I an sory to sity, superior to the samples of grain of the exhiniting country. Those most enimmended were co. tributed by Alperia, Fuane, Ausira, Balen, Suin, and CormBat From greece a small collection of
grain was sent, as also a potch honey from Wount Hymettus, which the umpires, still faithitul to the trallitions of the poets, pronomecd to be lhe best in the Exhibition."

British atgrieultuma produce was confined to one collection, exhibited by the Brilish Govermment, and entmisted to the care of Prolessor Wilson, who manilested no ordimars amount of taste and skiil in procuring and amanging the several articles, which oxcifed much praise and ahmintion, both from the risitors and the press. The ollisial Manl-bogok has the following remaks:

* Yegetable productions oceupied a large space in the contributions from the Piglish Colonies. 'Their modigions ramety, their relations with manofacturing industry, and with the alintatation of the comatry, assigned to them naturally a prominent prosition m the Exposition of TSinh. But we were not prepared to see the agricultural produce of England represented with such tolat. Whist the contributions from the Thdies struck us by their varicty, wheh, so to shy, prevented atl methontical chassification; those from Enshand weat arranged in admimble order, and thus emabted us 10 apprectate at a singte glanee the resulfs of that high calimation whiel the necessity for a farge groduction has foresd upon this nemat hation. The ecreals, legmbinous and forage plants, aud the indigenous timber woods, were represented by spocinens in their matfural state; the rools and cultivaten froits wore represented hy was models: the domesticated abimads by earelially panted portmits. Jhis eollection, in its enemble, does the greatest honor te those who made it ; our only regret is that the place assigned to it in the Amexe was smewht remosed from the preat lines of cirenation."
'I he spirit of the author's conchading observations will lind a rraly response amoner the trus bearted of ow race, nos only in Camata, but in every civitised nation of the earth:
"This bief slocteh which I have given you has touchad but the surface-ibe satient points of interest which naturally present thenselres to the ordinary ohserver. But a man cannot long remain an ordinary observer whose duthes lead him, day by diy, and weok by weok, to the eximiantion of chese. great and yaried evidences of Divine benefieeme. He camot compare umored the produetive ratio ol skilled and Christian Europe with that of the dark, enorangelized natinns of the East. He camont but trace the hand of Providence in adapting the wants and produce of a country to each other, - whether he seeks for it in the contritations from the ice-hound shores of Scandinaria or the sumy lands of sonthern latitules. The leets, alter all, how poor are man's eflorts, and how small is his sucess, when-with all the powers of athanced civilization, the maturea intellect. and the developed skith-he vamot rival the beanty and the riebuess of those productions which Nalure has bestowed on lands oyer which her sway is stilt undis-
turbeti. Tis infellect may orgimate,-his shill may apmy,-science ami art may lemb mans for the adaptation of Nature's rifts to lis daily need, hat his own fimitencss mast ever come home to his minil with the great trath that-though as Puab he may mant, and as Apollos may water,-it is Gool hat giveth: The inctease."

We too, in Canadi, have many great and wise lessons to leam from the pare we have phayed in these pataes of Indastry mand sucecssively in the two chicef eqpinals of Jitrope and of the worlu. We bave muela to be justly proud of in the apperamo we lave mode; but our experience will have been to litile purpose, il we do not also learn from it how much we hare yet to acenomphisl in eremy way, to place is on an intellectual as well as an industrial equality with these, the foremost mong the nations of the world.
(i. $\mathbf{1}$.

Tntali of lewovatis-The 'Iria! of Ploughs spoken of in: this loumal, came of on the 29th Aprif, wew York Nitts. There was a good attendane of lamers, as well as several disthyuished persons from a distante. live Plonrlis wire tusted with the dymameter, viz., Moreland's, Einelmin's, Hownd's (Euglish), No. I Tap Furow (American), and the fron Scolab Plough. The following gentleme were nameal a Commillec to report on the trial : D. Claristie, M.PD., dohnWade, Esp.; Col,'Shompson; and .1. C. Akens, M.P'.

We have not sprese in this Nimber for the Report of the Committee, but we give below the result of the trial as indicated by the instrument:-


## MONTREAI MARKE'F PHSCES.

Rutes at which produce is murchused fiom the firmers.

30th Mry, 1 Sa 6.
Lay from 7 to $\$ 9$ per 100 buadies.
Shaw from 2 to: 3
Fresi Butter, per lb. from 1 s at to is 3il. Salt Butter, do from 10d $1011 d$. Comitry Cliecse, from $6 d$ to Sd .
Wheat, 6s to 7s.
Barley, 4s to 4s 6u.
Rye, none.
Oits, from 1s 3 il to 1 s Gid.
Yellow Indian Corn, fronil 3 s Gd 10 ds.
Indian Corn, (Olio) is 9il to 3 s .
Buckwheat, from Is yd to 3s.
T'imolly, las.
Peas, from is $3 d$ to 3 s fit.
Bect, per 100 lt s, from 36 to 8.
l'ork, 89 to 810 per 100 liss.
Multon, per lb., from bit to Sd.
Yeal, 7 d to 7 di.
Eggs, 7d to $7 \frac{1}{2}$ (.

## 

(Latco A. A. Allen \& Co.)
Mamficturer and bgaler in all kinds of Agriculturan and moriculural moplemants,
FIELD \& GABDEN SEEDS; FRUIT \& ORNAMENTAL TREES;

Such as Permvian Camoo, Bone Dust, Super-phosphate of Lime, Plaster, Poudrette, \&xe.
 NEW YokK.
UPWARDS OF ONE HUNDPED

## PATTERNS OF

Plows, Cultivators, Horse-Hous, Rollers, Sued Suwers, Itowe Rakos, Mowers \& Reapers, (of every molec, 'Threshors, Fim Mills, Horse Powers, Hay Presses, Corn
Mills, Corn Simellers, Hay C'utters, Cider Mills, Chums, ['muls, \&
隹il fill Cattrogute of over One IFundred piages sent by mutit on application.


##  patesit jamboved

 AND commneo
MOWER AND REAPER;
Strong, Simple in Construction, Not litbje to gret out of order,
COMIACT, LJGHT, EASY OF DRAFT,
Perfectly safe to the Driver
And nay be warked at a Slow (iait by Horses or Oxets,
NO CLOGGING OF KNIVRS,
Works well on rough ground, also on side hills-sidt and fresh meadows-and in
any kind of lodged grass and clover.
Warranted to give Entime Satisfacmon, MANUFACTURED AT"
The Agricultural Implement Manuftictory atid for sale at the Warehouse of
R. T. ALLEEN, 189 \& 191 WATERSTREET, NEW YORK.
The Mower will ent and spread from ten to fifteen acres of gmas per day, in it workmanlike manner, wihh a good pair of horses.
The Reaper will cut from twelve to eighteen aeres of grain per day, with a good pair of horses.

## 1856.

THE COUNTS OF MONTREAL. Agricultumal Society, FlUERS the following Promimes for the following Crops:

ENGIASH CLASS. Shillings.
Polatnes, 6 Prems. 50 $45 \begin{array}{llllll} & 40 & 35 & 30 & 25\end{array}$
Carrots, 5 do. $40 \quad 35 \quad 30 \quad 15 \quad 20$
Mancol Watzel,5do
Turnups. 3 da.
Indin! Corn, $G$ do. 40
d) 3
d) 35 Horse Heans, :3 do.

3530 :25
Sumuar Pallow, I do.
For Cieneral Comprtition.
The Best Surfied Drained Fam, : premiums,
$30 \quad 90$

## RURES AND RHGULATIONS.

A Fiold of Four Aypents, at Joas, will bo required to entite a limmer in this Class to compete for Potatoos and Summer Fallow.

One arpent for ludian Corn.
One arpent for Deans.
Mall ant arpent for Turnips, Comols, Mangol Wutzel, the whole to be Fied Culture.
No person allowed to compete miless a Member of tha Society.
No Preminm to he triven mbess Fam is free from noxious weeds.

She parties to whom First Jreminms ate awarded, shatl repont to the Sociely, He system adopted in the producion of the crops.
That suel Premiums shall be paid only upon Interrogatories boing allswered, and Cirenlars metumed filled ni, addressed to the Seenetiry-Treasurer.

This Ṙule will be anforced strictly.
Notice of Competition to lue give to the
 July nexi.

By Order,
JAMES SMITH, isec.-Treas.
Montran, Ist May, 1856.

## Lower Canada Agricultural Implement Warehouse

AND

## SEED S'IORTE,

## St. Amms Itall, orer the St. Ann's Market.

IHE SUBSCRIBER has just received from FRANCE, a considerable quantity of FHELD, GARDEN and FFOWER SFLDS, amongst whide will be found several kinds of CLOVER and other SEEDSS never before introdnced into this combry. He has also on hand every varidy of SEED GRALN, all of which wifl be found pure and manixed.
The IMPLEAJLN' RRANCH wil comGrise cvery thing necessary for the lam, Garden, and Dasy:
The Subseriber would also intimate that ho has been appointed Areat in this distrian for the extonsive maturaturing binse, known as the "Faris Furnase Co." Or Clayville, New York. And has now on hand a considemblo quanity of their Agriculamad Implemonts: they are of superior quality, and will be disposed of by wholesale and tetail on liberal terms.

WM. JVANS, Jumr.
Genmine Perluvian Guamo and oller Fcrtilizers.

Seeds and Fertilizers.

G Pavine pernuvan guano, Bone and lid delle. SI:EDS-Grass, Clover. Wheal, Oats, Burley, Corn, and all mher Fiohd, Flower and Giarden Seds-WARRANTLED lUNE.
PLOUGIIS, Harrows, Seol Sowers, Rollers. Threshers, florse Powers, ind every thescription of Agriculmal and? Horticliftama Thplements-ithe largest assonthent in the Vhited States.
Allon's Putcul Alfowing and ilcorpings
and all other approved mikers.
S. L. ALLEN,

3 p 190 and 191 Water Sirect, New Fork.

## Notice to Jammers.

T
 sures the prequetice of firmers of Mowerneab, in-

Apply at the flice, She surament Shen, Montreal; th the Agents in the Country ; os to the monersigued liremens:-

Wint Macdumbt, Psy., Prosident, Lathinc.

$\begin{array}{ll}\text { Eduarl Quin, } \\ \text { E. M. Mulis, } & \text { Gomsuc Pointe. }\end{array}$
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John Donss, "E Petitecole.

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