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# THE LOWER CANADA BOARD OF AGRICULTURE. 

Vol. JIT, No. 10, Monthal, Femuary, 1856.

## 

 To Agnicutimunaf socicttes.We have taken the liberty of addressing to each Seeretary of the difierent local societies sereral copies of the Journal, for the lastand present monthis, and we shall feel obliged by their circulating them in their resplective neighbourhoods, with the vie: of obtaining a large adlition to the list. When the Publisher undertook to issue the Frarmcr's Journal at its present low rate he was indued to do so by the consideration that there was an extensive organization throughout the province, in the stape of Agrienttural Socieiies, whose oflicers would doubtess use their best exertions to put it into extensive circulation, and who besides would furnish him with useful local intelligence respecting erops, mode of caltivation, proceelings at agricultural shows, \&c. In both respects he laa been unch disappointed, for, with a few praiseworthy exceptions, he has met with no aid whatever from the loed societies. Nor has the Publisher experienced more consideration in the matter of adrertising. He was led to believe at the commencement of the undertaking that his main source of profit would be derived from the publication of the particulars of the local Shows, meetings of societies, \&e. ; but only a very few have advertised at full leugth, others have sent in short notices, the charge for which is so triling as sometimes not to warrant the trouble and expense of collecting, white in the great majority of cases Shows were held without being adrer-
tised in any form in the Journal, although the Aet of Parlament directs that this stould be done. 'To improve the position of the Journal, tand render it a more useful organ of the agricultural hooly, the Publisher would respecifully surgest :-

1st. That the difterent local societies should subseribe for a certain number of copies, and distribute them amoug their members. Where 50 copirs are subscribed and remitted for, the price will be 55 , or at the rate of $2 s$ cach.

2nd. 'I'hat full particulars of the diferent local shows should hercafter be advertised in the Journal in accorlance with the Act of Parlianent.
3rd. That the Presidents, Secretaries and other freads of agriculture should statedy commenicate information of interest to be published in the Journal. The great secret of the suceess whieh has attended similar priblications in other countries, is to be found in the fact that the Editor is assisted by a numerous body of intelligent correspondents, whose tommunications, eoming for the most part from those practically engaged in and conversant with agriculture, gire interest and variety to the paper.

Unless the subseription list to the Jourmal is greatly increased during the montlis of Tebruary and March, the Publisher will be reluctantly compelled to uiscontinue it after the close of the current volume.

## the french empror-Experments with floun.

The Emperor Napoleon the Third, who has shewn himself in many ways to be a very
uncommon man, conceived the idea that it would be pacticable to compress flour so as to diminish its bulk, for convenience of trasportation, without injuring its quality. In July, 1Sōs, an experinent was tried at the suggestion of the Emperor, and with the object ol testing his views. It was found that flour subjected to hydraulic pressure of three hundred tons, was reduced in volume nealy 25 per cent., and on examination and amalysis it was found to possess all the alimentary properties it had before it lost its bulk. The flour subjected to hydraulic. pressure was then put up in zine boxes and hermetically seated. At the same time other llour made from the same whent, but not compressed, was packed in similar cases and sented in the same why. In October following sevural of these packages, containing both kinds of hour, were opened and examined, and that which was compressed was pronombed to be the best. Again in October, 1854, another examination took place, and with the same result. The two kinds wore then kneaded into separate loaves and baked. The pressed flour made the lightest and best bread. Again in March, 1855, more of the anc boxes were opened, and on examination the loose flowr shewed mouldiness, while the pressed hour was sweet and retained all jts excellent qualities. Made into bread a very marked difference was discernible.
The Emperor has ordered experiments to be made at sea, as well as on land. Men-of-war are to take out bolh kinds of hour, and both are to he sent on sea royages to . hot and cold latitudes, and examinations are

Prob 2s 6d. mer annum, in advince.

to be made and recorded of the inlluence of climate and salt air upon each.

Of late, bread has been included within the economical movement of an association of labor, so maniest in many parts of Europe and America. In Amsterdam, Holland, is a joint-stock-bread-making Company, organized to produce unadulterated rye bread for the million. Its capital is 250,000 florins. In Stultgardt a similar Association mauufacture 500 pounds of brad every 45 min utes, and in the 24 hours (the bakers work night and day) 16,000 pounds. . Ten journeytnen are employed, six of whom are constantly at work, while three rest, aud one is taking a holiday. 'The flour is kneaded by machinery: moied by a sinall stem engine. The bread is sold a kreutzer less than the police price, yet so swect and good is it, that every loaf is eagerly bought, and the capacity of the factory is to be doubled, and two larger concerns in the same city are to be started. Orders for this bread enine in from neighboring towns daily, and are daily filled by railway.

In J? russia, the ligh price of breal has induced inquiry into the waste caused by separating the bran from the flour at the mills. It is found to be from 12 to 20 per cent, wherens the great German chemist Thiebig has stated that wheat contains only 2 per cent of indigestible ligneous matter. There is a growing dispusition anong the better classes of that capital, to eat their bread herenfter unbolted. While their loaves will be cheaper, they will be more nutritious and digestible. And if the suggestion of the Erench Enperor is conlirmed by extended experiments and observations, the hydraulic press will come into use among the millers in flour producing countries like America, and a material saving will be effected in the cost of freight, with a corresponding advantage both to produrer and consumer, and Tive l'Emperear will be the exclamation in more parts of the world than one.

## AGRTCUBTURE, PAST AND PRESENT.

Professor Buekland, of I'oronto, delivered, on Triday, the 21st December, a rery interesting and practical lecture at the Mechanics' Institute, 'Toronto, " on Agriealture, Past and Present." In the last number of the Farmer's Journal we advocated the introduction of Lectures and - conversazioncs on Practical Husbandry in Lower Canada, feeling that viva-qoce ex-
planations and illustrations are calculated to interest in a very high degree atl engaged in agricultural pursuits. We are pleated to find that the same view is taken of the mat. ter in Upper Canada, and hope we shall be enabled to follow the example of our westerin friends, in this as in other points of progress.

By the courtesy of Professor Bueldand we were favoured with his notes of the lecture, and only regret that our synopsis of this valuable address must necessarily be short. We have reason, to hope however, that it will be published entire in the Upper Canada Agriculharist, and we refer to that pubilcation for a very masterly treatment of a large and inportant subject. Professor Buekland is a thorough prastical agriculturist, and we believe would have great and merited sucecss if le could be induced brour Societies and Instilutes to address limself to the farmers of Tower Cnnada.

The Itecturer liegan by stating that he would attempt, for the information of the audience, to sketch the progress of agriculture from the carliest periods of authentic history to the pressit thes, and would glance mpilly at a few of the more prominent proints which have distinguished or chamaterized this invaluable art at its suceessive stages of development. We said be would oller no apology for bringing a subjeet like agriculture before a general andience; in a tountry like this, so peculinty adapted to agricultural pursuits, and in which protnbly three fourths of the entire population is eugaged, and on the cxtension and improvement of which the progress and prosperity of our country mish so much depend. A griculture can never want carnest and zealous alvocates, sincere admirers, and intelligent and ardent cultivators; the first and most pressing want of man being fool, and agriculture lecing the only means of obtaining it with certainty and abundance, it behoves cerery one interested in the pursuit to study the most judicious andsuecessful methods of cultivating the soil. The history of agriculture he contended was the history of civilization, and its various epochs constitute the listory of the world's progress in wealth, knowledge, happiness and frecdom.

The Lecturer then gare a rapid résume of the listory of agriculture, beginuing with the Mosnic account. Our first parents were phaced" in a garden to dress and keep it." Abol was a "Lecper (i. e. a feeder) of sheep." Cain " "tiller of the ground."

Bridence in the rery infancy of the human race, of the two great departments of hasbondry, precisely as they are divided and followel in the present day. He nest passed on to the records of agriculture in whieh Noah and his desecudant; were engaged, and thence to the Agriculture of Egypt, Syria, aud the Eloly Land. How easy, says the historian Play, is the husbandry of Erypu, Jor there the River Nile, serving the turn of a gond husbandman, begins fairy and gunly to rise and corer the land, and if it do not rise above twelve cubits, and lave its deposits to eniseli the land, the people are sure to have a year of scarcity. After the agriculture of the Asiatic: Fmpires, that of Greece and Rone was mpidly glanced at, and the rich and varied agrieultural literature ol these great empines was pointed out as evidence of their high agricultumal actuirements, aull of the tacte and genius displayed in the parsuin. 'lhe prose of Pliny and Cato, and the poetey of the prince of Latin Poets, Virgil, were guoted. to show how far the science was alranced so many centuries ago.

Afer dilating on the classic literature and progress of agriculture in the early ages, Prolessor Buelland passed on to its prorress in the mother country during the uiddle ages, and to its condition when the Sazons, Piets, and Scots severally possessed themselves of porticas of the British lsles, to the introduction of Norman Hushandry, and the tabors of the monks in extending agricultire, and the widences they hare left of those labors in many of the loreliest districts of the Britisfi Istus, and in the records handed Nown to motern times. Coming thence to the labours of Dary and Tiehig in agricultiral Chemisty, and to the impetus given to agriculture by the Lhighland, English, and Irish Socicties, atmirably copied and imitated by the Societies of Canada and the Uuited States, the Lecture concluded with the following beantiful preroration.
"Thus physical things and the science which relate to then beeme invested with garments of meaning and of parpose altogether new. The drained morass, the fresh turned fallow, the waving cornfied, the meadow with its herbage interspersed with flowers, no longer stand separately before us, as things of mere labor, utility, or beauty, or our relation to them as the accident of a day. "Day unto day uttereth speceh, and night unto night giveth lanowledge" of nature. A higher ordinance and appointment, enveloped
rithin their teaching, becomes gradually but irresistably revenfed, binding and disposing all to work together for the greatest ent ant of the individan only, tout of the when family of mat ; mot or his physical necensilias. or intellectual parsuits alone: but of his whole relation to that highest wislom, whose evidences and attributes are engraven upon the fabric of nature, not of power or knowlexige only, hut of unirersal and inexhanstible beneficence."

h.bgislation for the promotion of agriculture
As so large a portion of the propulation of the Jinited liorince follows that most ancient, and most useful of all occupations, agriculture, as the business of their hives; and as the legishature ansions to encourage improvement in this important pursuit, have legishated at maious limes, and have institutan Boards of Agriculture and Provincint Agricuitural Associations, whose duty it is to wate hover and promote the organization and developenmat of County Societics, who in their ham, eontrol the ]?orincial asoociations, by the votes nithe Delegates, the farmor has by his own rote, and the voice of the individual to whom he delegates lis authority, the power to ducide upon all questions that concern his own indwidual interests, and whieh are caleanated to promote the suecess of his peculiar puisuit.

It would appear, from recent erents, that these privileges are not rell understood, or sulliciently prized by the farmers of the Tower Provinee, or if mulerstood, we are utteriy at a lass to accombt for the apally exhituted by somany of the Societies at the last tall oxhihition. As was stated at the elase of the Sherbrooke Exhibition not one delegate attended from any Soriety in Tower Camada, exeept those from Sherbrooke aud its ricinity, and the very object of the Aet of the Provinciat Legislature in giving to the Combly Sacieties, who should best understand, their own interests, the power to appoint heir oflie-bearers and the places of exhibition is defeated, or becones a dead-letter by reason of the non-attendance of the delugates from the County Societies.

As it is possible some portion of this apathy may arise from a want of knowtedge of the scope and bearing of the provisions of the Aet, we have thought it would be an acceptable service to our realers that we should arn to the Provincial statute Book, and shew in a short, but suecinct mamer, the
objects of the Act for the betcer organization of County Agricultural Socicties, and the means by which those fiocieties cam, by systematic and combined exertion, promola the objects for which larliament has legislated.

The Board of $A$ griculture is composed of eight Directors, four of whom retire every year to be re-elected, or replaced by the votes of the difiereni County Societies, at their amual meetings in the month of February. It is of the utmost importance to the farming interest that these sulections siould be made with care and judgment. Those alone should be selected who are competent, resolute, and indefutigable men, earnest in scason nind out of scason for the promotion of this olject. If the proceedings of the Board have not been of such a chatacter as to satisif the agriculturist, or if the members have not shacm themselves to be pirrsons of sufirient vigor, activity and intelligence, here is the remedy provided by the vistom of parliament to effeet a satisfactory change in its procectings, and, if the farmer values his own privileges and interests, he wilhset himstlf anxiously to the considertinn of this matter, and apply a remedy if it be needed at the usual time of election.

Jhe Provincial Association is composed of the lioard of Agriculture, the President and Viec-Prosidenls of the Countr Sorieties, and all antal subseribers of five shallins: the Board, and the President and VicePresident of tle County Societies (or any taeo members in the phace of the latife whom a County Sociely may appinl) a.e the Dieestors of the Association. And these Directors are bound by the Aet to meet during the exlibition which tabes place during thei" term of aflice, for the purpose of fasing the phace for the loblding of the neat cxhibition, and appoiating a President and Viec-President for the Association.

If any section of the comutry is anxious to have the exlibition within its limits, it should take care to have its interests well represented at this meeting of Directors. At this meeting also the representatives of Counts Societies would have the opportuily of discussing many important matters with the Board, and the future proceedings might he so shaped, affer consultation and due consideration, as to alvance in the lighest degree the objeets comtemphated by the Act, and hence the importance of appointing, as
we have insisted, men of activity and intelligence to the trust.

Illac subject is ono of demp and abiding interest to the agricultural community. We shall return to it, and shell te glad to find own waming and adrice have not been uttered in wain. We were informed the other day by an extensive miller in the adjoming States, that Canadian Wheat is acknowledged tuiversally by American Nillers to be from 10 to 15 per cent. hetter than Americau Wheat. On asking hin the reason why, he repized that he believed the snow of our muel thaligued elimate burtured a more vigorous and productive phant. Owing to the superiority of our cercals, and the great demand likely to arise for them in the present state of Europe, many American farmers bave come over to purehase our wheats, and even want to purchase and farm our lands. Mich of the Sumons, Hour solld in Turope with the Genessec bond, is manufactured in that district from imported Canada What, which the miller prefers to that grown in the Genessee valley. It will be a deep reproach to our people if ohbers cen perceive and appreciate the alvanfages we possesp, and are prompt to profit by the circumstances of the timesand if we should be so slow or apathetic as to be insensible to those adrantages, or should fail to second the local legishature in its thonghteuland carelolly matured eflorts to promote out own agricaltural prosperity. In this case the fauld will be justly ascribed to those who neytect the important finctions they are appointed to fulfil, and who thus intict a serious injury upon the most productive interest of the Province.

## sTATE BOABHS OF AGMCULAUMA.

The Hon. Menry i. Garduer, Governor of the State of Massicluassetts, in his amatal address to the two branches of the Leegishature, refers in the following terms to the State Board of Agriculture, and its inflemee upon the agricultural prosperity of this impor tant prat of New Jengland:-
"No portion of tuy offecial duties has been more agreethile than those performed as at member of the state Board of 4 grienhture ; and, though the relative expenditure of money under this head is small, no departuent of government is intrusted with a suljecet of more intimate concern to our antire community. She wise foresight, which encourages the difierent conuty societies liy a State grant, and which gives to each of them a direct representation at the Central Board, where the experience of all is comitered and compred; and the prac-
tical sagacity which established the State Tarm, where, without annaal cost, valuable results are arvived at by experiments in fertilizers, in inproving breeds of stock, in introducing vegelable productions new to the State, and in testing theoretical probabilitics by actual trials, have largely contributed to raise the standard of faming, and to stamp that degree of excellence on our agricalture, which our soil and climate would seem to forbid, and to which, without these facilities, we should not have attained. By these methods, judieiously improved, as they doublless may be, it is possible that the agricultural perfection of Old England may he rivalled, or even surpasset, and our State becone the model farm of the world."
scancity of fami laborers in england.
The London Tarmers' Magazine, in alluding to the diffichty of obnaiaing hands, says that " instead of two men looking alter one master, two masters are looking after one mant" The war has something to to with this, the improved condition of Treland something, but emigration has been the preat means of improving the condition of the farm laborers of Bighland. The article alluded to says:
"Those districts which depent on a poriodical indux of Irish laborers for their harvest, receive them no more. They have solved the problem of a self-supporms enigration. The Highlanders who performed in the same way the periodical taber of the Scotish lowlands are emigrating to Canada, where they can obtain land of thear own. The English rural poputation are shaking off their tread of forcigu parts. They are acequiring a better knowledge of them, and of the prospect they athord to the laboring man of beconing a land owner and employer of labor limself."

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## THE CORN CROP OF THE COUNTRY.

Aceording to the best information, the corn erop of the United States for the present year is immense, greater tan that of last season. It camot be realized however to the full extent, for some months. The estimate in some quarters is a thousand millions of bushels. Corn constitutes a leading item in our agricullural products, and such a crop cannot but materinlly assist the prosperity of the mation. Ihbis cercal is used in many portions of the South and West as a substitute for whent and rye, while it is one of the essentials in feeding horses, swine, poultry, and in the manufacture of whiskey. A heary corn crop, theretore, is a great national blessing. We shat! have a surphus extending to millions of bushels, and already numerous cargocs have been engaged for cxportation. It should be remembered, however, that in order to render the corn of the remote $W$ est arailable in the Athantic ports, the price inust be reasumally high, for otherwise it cannot be
broughtover the various railroads and canals with adrantage. At some points. for example, com sells as low as thirty cent; a bushel, and at others as high as a dollar and ien cents. When it falls to fifty cents in New York and Philadelphin, it cannot of course be brought from the towns in the West, where it sells for thirty cents. INay, in such cases, it must be consumed on the spot, for it leecomes comparatively valueless. It is essentinl, therefore, in order to realize the entire crop, that the priecs should be remunerating in the Atlantic cities. Only yesterday; we heard an extensive dealer express the opinion that comn would sell in Philadelphia in May as low as seventy-five cents a bushel.- Philadelphia Inquirer.

## mapie sugar an article of commerce.

## To the Editor of the Mercury.)

Sri-'The material prosperity of every country depends so entirely on the extent and value of its matural prodactims, that it is the duty as well as the interest of every one, to use his exertions in promoting their developenent. This premised, I an desirous of calling the attention of the pablie and especi:tlly the agriculturists, to the following extract from the Medieal Chronicle for Tanuary, which has just come to hame. It is from the pen of my friend, the talented "London Medical Correspoatent" of that Tommal, George D. Gibb, M.D., Esq. athough it oniy bears the modest fuitial of the writer $G$. As the excellent periodical from which I copy, is necessarily, from its charater, confmed to a comparatively sunail einss ; 1 am anxions to give lie important suliject on which it treats, a publicity commensurate with its importance.

Under date of Lomion, 7h Deecuber, 185\%, he sats:-
"Of the solids and furids consmued by all ehasses of her Majesty's subjects, none are in such demand as siggar ; it is not only very searce bat very tear, an! many of the lower orders can only purchase it in vers small quantites. This scarcity is helieved by many political ceonomists as likely to conthua some years. Now it is a question worth considering, whether the sugar of the maple might not be exported from Canada with adrantage to the manfacturer ; but in a gramalar or crushed form, and deprived of its colour, to some extent. I merely throw' out the suggestion which some may think worthy of consideration. Looking at the point in a physiological sense, 1 believe the deprivation of sugar anong the lower chases likely to be followed by general emaciation, and a tendency to many of the exhausting diseases, especially chronic pulnonary courplaints.
"I have endeavoured to show, elsewhere, and I think satisfactorily, that the great source of combustible fat in the cconomy is a proper supply of sugar, and although we may ahready have a good deal of inherent
sweciness in our composition, a supply from without is a matter of necessity, and at the present time one of ansiaty."

That Camada possesses almost houndless forsts of the sugar maple (Acer Stiecharinus) which are eomparatively unproductive, camnt be denied; therefore an extensive field is open for the manutacture of a commodity, that, according to Dr. Gibb, is almost an essential to life and heallh. No douht can exist, but immense quantities of maple sugar may be manfactured at a twifing cost, and at highiy remumerative pronits. Ivo nativation is necussary, nothing bat the preservation of the trees from the woodman's axe, and the season at which the maple gives its sweets, is when no other agricutural lahour can be exsercised. I will not at present enter at length upon the exproliency of preserving the maple forests and groves of Canadi, hat merdy drop the hint For legisfative considemation.

Some very fine spectiueas of mapla sugar have from time to lime been extibited at our Lecal Imbuthiat Exhibitions (of which I have the satisfaction of having been one of the earliest and thust zealous promoters), and for which premimas were crrated. Some of these sperimens from the Eastern Townships, among which J may mane the products of Mr. J. R. Inably of heeds, inegantic, were far superior in colcur and taste to the rey best muscovaloes, and hittle if at all inferior to the crushed whites, (not bastards,) and were, as suggested by Dr. G., in gramar erystals.

I would respectlully suggest for the public benelit, that the District Agricmharal Societies shoull offer premiums for the best quality, and largest quanity of sugar manutictured in each district, and, that persons possessing the best method of making sugar be invited to commanicate the same durough the public press, which will 1 am confident be freely open to then. In conchasion, is the seasen is not far distant when the amual mannfacture of maple sugar will conmence, pernit me throigh your columbs, to enlist the services of the press generally in giving prompt and active circulation to this subject. I am, Sir,
Yours, \&e., W. Mansidn, M D.

Quebec, 15th Tan., 185 (i.

## agmiculture of lower capada.

1 suppose it to be an esiahishled fact, that Agriculture was the first Art practised by mankind, and as it was the most necessary Art from the ereation of the fist iman, Atam, ve might matually cxpeet that it would by this time, have attained to the greatest perfection it was capable of. Experiene, however, convinces us, that though: our teaching has continued for a period of near six thomsand years, without the interval of a single year, except during the time of the Ilood covering the enarth, we have not yet learned perfectly cither the Art or the Practice of

Agriculture, - notwithstanding that the Art and practice is, by most persons, considered rery simple and eusy to be understood. No doubt the princighes of the Art are very simple, and consint chielly in first draining the land it stperfluous moistare. Secondly, -broaking up the soil intended for growiag crops thoroughy and effiectually, by the plough ir otherwise. Thirtly,-by supplying the soil with manure when required, to restore fertility to the soin if exmasted by produciug crops. Fourlhy;-to sow good, clean, and unuixed seed, of whatever maisety, in the proper scason and in a judicious manner. Pifthy, -uot to allow ang: plant to grow with the cultivated arop, except such phants as are the produce of seed sown. Sixilily,-to establish a rotation of crops, suitable to the soil and the locality, and to carry out this pina of rotation as elosely as circumstances will admit, constanly obserying the rule of not allowing the same species of grain or roots to succeed each other upon the same soil two years in succession, and not to cultivate any species of erops whiel the quality of the soil is unsuitable to produce in perfection. Seventhly,-when hadds are let out of tillage, with whatever object, to seed them down invariahly with some variety or varieties of griass seed, and thos give the land a chance of being eovered with verdure, as when first brought under culture, whe ther of trees or grass. Tllis would be doing justice to the soit, for which the soil will make a generous return. The subsequent management of crops. I with not diseuss on the present necasion. In my Treatise on Ampiculthee, published many years ago, I embeavored to deseribe this; manayment, and $I$ could not give any better description now. If the rubs I have above enumerated were properly executed and carried ont, we should not lave much to somphain of in the tilhege part of our agriculture, and, though they are very simple, yet they are manifesily to be observed, in order to insere good erops and preserve the quality of the soil from deterination. No doult, Agriculture in every depariment, Las attained io a great degree of perfection in the British Isles, though all circumstances considered, this perfection is not surprising at this alvanced age of Agriculture, contimucil down from the time of Adan. LIowever, it would appear to be our duty to imitate the improvements so successlully introduced in England so far as they have grone. Oar lot has been cast in a' country possessing a very superior soil, that lins lieen leit in a state of mature-accumulating fertility, mobably more than five thousand years longer than ofber parts of the word supporting a large popmation. Unquestionaldy these are fiverable ciremustances, and we should stow our appreciation of them, by endeavouring to attain a high, if not the very highest rank in the pratice and productions of Agriculure, as I am confinced we are capable of attaining.

The Agricultural Products sent from Lower Canada to the Paris Exhibition of
the Products of all Nations, were not very carefnly selected, bectuse there was not suflicient time or notico to make the sulection, and it was also so late in the season that most of the produce was disposed of by Arricultarists, particularly the best samples. This circumstance I bad an opporiunity of aseertaiming in my capacity as Secretary to the Montren! Central Committec for the Paris Exhibition. But, notwithstanding these unfarorable circumstances, ahmost all the products sent, axeept Fall Wheat, of which I believe there was not any sample sent, took first class prizes. I can futher say, from experience; that there are humbeds of thousands of acres of laud in Tower Canada of equal, if not of superior matural quality, to the lands which produced the samples of erain, Sce., sent to the Paris Exhibition. This is an monestionahle fact, and wh; then slould we be second to any country in any departunent of our Agriculture, or the quality of any part of our produce be inferior? Now is the time for action, when the products of Camadn have attaned so high a position, whea in competition with the prodicts of the first countries on earth. We siall have numerons visitora to see the country whose productions, and other wouders, stand so high in the Pexhibition of the promucts of all nations; and it becomes on duty, in order to secure a consistent character, that our practical system of Agriculture in every department, should be in a strict accordance with the high character our products hare attained in Pavis.
Probably tany who may have read my late comanfuncations on the state of our agrienture in Jower Camala, may be disposed to entertain a different riew of it from that which I bave given. It is not by any means my wish to give an unfavorable view of our agriculture, but only to state things as thes really are, and suggest improvements which I think might be adrantageously introducel. It may he replied that the changes 1 propose, if they are desirable, can only be introdaced gradually, and will require a long period to bring them into operation. It is vertain, however, that the longer we pat offimprovements that are required, so much longer do ve put oft obtaining the advantages ve might expeet to derive from them, and they will have to be adopted at last.4 At the present moment there is more encouragement for agriculturists to produce abundantly, than cyer was offered to them before in Canadi. What does it signify to farmers that there should be high prices-many good matkets, with easy and cheap means of aceess to them, if they have no surpius produce to dispose of? What is the advantage to us if we have millions of aeres of gool land, in tillage, meadows and pastures, and hundreds of thonsamls of horses, enttle, and sheep, if all are not juliciously cultivated and managed so as to yield the greatest amount of anmal production, or, at all erents, what might be considered a remunerating ayerage of proluction? There is mother incentive which should have as
powerful an imbuence upon agricultarists as upon any other class of the community-the desire to possess the means of obtaining all the necessaries, conveniencies, and even the clegancias of life, to as great an extent as possible. Now, it is quile certain unless we are able to raise a considemble surplus from our farms orer what is required for simple food and clothing, we cannot have many of the enjoyments which are common to other classes of this community. Farmers are - generally proprictors of the farms they cultivate. (about 100 arpents) and under good cullivation and management, they should affords means of comfortable liring to their owners. Of course, what might be thought a comfortable or respectabie mode of living by some parties, might be considered quite the contravy by otlers ; bur I shall not attempt to detine the standard of what should constitute the one or the ather. It is sumbcient for my purfiose to say, that the larger the quantity of cacellent produce we obtain from our lands in erery way, the more we shall have at our disposal to expend, and undoubtedly, the means to expend is calculated to aftord a great amount of satisfaction both to ourselves and others, if we know how to expend on laudable olpgiects.

When 1 hare expressed regret at the backward state of agriculture, it las frequently been replied to me, that the farmers rere perfectly satisfed with their condition, and were not desirous of any change, and that it was nothing less than offensive intrusion to fiud fault or oljeet io their modes of cultiration and management, or to recommend new systems for their adoption. To avoid giving offence I have been always very cautious, and rather endeavoured to demonstrate what was ohjectionable, than condemn it withont explanation. I have ever wisled honestly to submit the result that might be expected from dificrent systems, and recommended that for adoption which I. concerved to be the best and most profitalle. It would be rery lesirable that agriculturists in Lower Canalia would not eling to a defective system and practice of hushaudry that must be unprofitable. We ove a duty to ofr combtry as well as to nur own interests, to adopt all practicable means, that the dands we oceupy shall produce as much as they are capable of producing, and there is not any one who knows the country that will pretend to say that we do so at present. There is another circumstance wortly of note, that the lands we occupy, unless they are constanty improving, must be deteriorating, and if chey are deteriorating, as they must be if our system of cultivation and managenent is defective, what must result from all this at last, but that they will become worthess. There is a simple fact conmeted with sheep which I omitted to mention under the heading "sheep." It has been ascertained that the careful and regular feenting of sheep has a most important influence on the ralue of the wool. As the genemal rule, whatever keeps the animal in
a heillly stale promotes the regular growth of the wool, and thereby renders it nowe valuabla for whatever purpose it may be apphed. It is iomalin Eugiand that when sheep have rot a sultiviency of grod food, the wonl grous irregularly, and ite wool is tonder and weat at that part whirl was growing when the check to its supply of food took phace. Wilh such faets before as, what caul we expect from our sheep if not sulfiesenty provited with suitable food at all times? It is by hearing the resuits of practice in other conntries that we can best under stand the pirstice ive should adopt. I have sem latelj some intererting statisitus of English and French agricuthre, which wore given in a lectane delitered in Cornsall, Engrland, by M. Li, de La'Trebounais, an eminent Ereneh A griculturist, who has purchased largely English breeding stork and sent them to Frane. He stated that the aserage produre of wheat in England was 23 bushels to the acre, and in Erance it is a jittle less than 14 bushels to the acre; that there is 11 sheep kept for each acre in England, ind only $1-3$ of a sheep kept to the acre' in Framee ; that $4,000,000$ catte are slaughered annally in Trance, we:ghing oa in aremge only about 2 cwt . cach, and in Tiggon lle:s than hall that number of cattle, bul weighing on an averige about 5 cwl. each. 'I゙longig in this mriew, I have un! oubtedr foumil great fiult with the general management of catle here, yet l'behiere that lhe aremane weight of cattle shagitered in Lower Cianda would execed the weight of the Freneh catle, if the - ecturer was convel fiut howner all this may be. I ronceive 1 was periectly justified in all I have said in relation to our cattle and sheep. Our aim shonld be to e:qual, if not surpass, ohers and not excuse any defeciancy, hy magining that we are not inferior to other agriculturists. I have trespassed to a - great extent on your commas, but must beg your indulgence a litule longer before 1 can. conclute my task.

Wm. Erans.
Cute St. Paul, Jan 10, 1556.

HHE NEW-YORK HORSE MASKET.
Tho principal sule stables aro located ons $T$ wout $\mathrm{y}^{-f}$ fourth street, hetween Second :and Lexington avenues, where Buil's Head tarried a few years on iss mareh from the old location near the Bowery Theatre to its presemt location in Fiorty-fourth street. This part of the street is known as the Horse Market. We have never visited it it a time When it wore a more cluil appearance than it did on Tuestay, December 4.
We have seen 8100 or 800 horses in the dozen stables along these two llowks at one time for sale. There is one stable-keeper who has sometimes had 300 sale horses on hand at once. He has about 40 now. There is another stable with stalls for about 200 horses. In this we connted 21 -grood bath, and indiffercin. Another stable cinable of holding about the sunte number is not one-lifh full. Sone of the smalter stables are still triore ompty.

It is probable that 150 woukl come all the horses for salo in the street, and while wo were present, we only saw or heard of one buger on the lookout for a norse.
The price of a common horse does not vary materially from the price a year ago, but the sales are very much fewer aid diflicult to elliect. As compared with two years ago, there is scarcely one tenth as many sales. Ore reason is the large sale of mules for a year or two past. One dealer told us he had sold 150 mules to one railroad company in this city.
About the average price of such horses as are used in our cily stages is $\$ 125$ to $\$ 130$; cait horses range from $\$ 125$ to $\$ 175$, and matehed work horses for $\$ 300$ to $\$ 500$ it pair. Carriage and fancy horses always sell for. fathey prices, just now but fow persons are in the funcy of buying. The asking price is pretty high. It is said that a good many horses have died in this city of some epidemic, within a year, and that has deterred owners from briuging such stock here, and deterred gentlemen from buying.
It is perhaps owing to this that prices are higher than last year, to those who do lony, and sales slower to llose who wish to sell.

In the present state of the market, it woukd be rather a lad speculation for a farmer to come here and wait for a chance to sell

The attention of Western drovers, daring all the past Summer has been turued toward Cincinnati, Chicago, and other Weatern towns, where the prices have been as good as in Now-York, and kepping lower, ind sales guicker.
In conclusion, we must alvise our comatry friends that the New-York Herse Markel is now decidedly tull, and very likely to remain so during the Vinter.--Ncev Forli Tribunc. Dectuth.

## antwerp raspbemmes.

The Poughkeepsic, (N. Y.) Piagle gives at very good ateount of the details imdextent of one branch of "Fruit Culture"' thas:-
But few persons are aware of the extent and importance of this comparatively new branch of the Agricultural, or maller lionticulmal business.

Ihte most extensive operations in this part of the coumry, are carried on at Milton, Ulster combly, although the fruit is largely cultivated in this connty.
There are now about 100 acres of raspherries in bearing in the immediate ricinity of Milton, and immense quantities of phants itre baing set ont every year.
$A$ feev days ago we visited the raspberry plantation of Nathaniel Hallock, at Milton, in order to learn the modus operandi of the culture. Mr. Hallock's being one of the jrincipal phantations.
The pickers were in the fields wilh their baskets between eight and nime oocloek in the morning, as seon as the dew was ofl the plants, as the berries do not keep so well whon pickea wet.
. In it short time the pickers berran to bring in the baskets of berries. Theso baskets hutil about a pint, are very neat looking, being made of wilhow, and muels superior to the baskets in which strawberries ure sold, in fact the berries would hardly sell, if sent to New. York in strawberry biskets.

There were abont fifty pichers at work, men, women and children, the women being the most expert pickers of course. One jer-
son was comployed constanty, and a part of the time severai persons, in precking the baskets. The buskels, is soon as picked and examinecl, are packed into boxes of different sizes aceorting to the erop of that day. the object of putting them into boxes is to ensure their sifo tramsit to the matket, and in orter to do this, 1 le packor has to work carcefully to lit the baskets in so hat each ono bracus the other: whei the bases are filled to the top, the tid is closed and locked, and the boxes are realy for shipment.

The geason !asts ahout six weeks, ant this perviod is one continual round of husiness, the berries being sent oll to New York every night excepr Sathriay, (here being no sale for them on Sunday.)
The berries wore all picked ahont six oclack, and aftor supper they were convejed Wh the hathing, the baskess making two very hicary lorse loads, and as near ats we conld calcutate, the stemboan took offabout fo, (000) baskets that night, making :about 20 tons of berrics, exclusive of the weight of boxes and baskets.
The baskets are imporicd from France by humbreds of thousands every year, ind although such quantities are manufactured overy year, the supply is inalequate to tho demand, the letter exceeding the former by aboun one-half.

The cultare of the plants requires the services of at large number of people.

The pickers constitute a small amy, there being from five to ten, and oflen more reguirof for each acese, ateserving to the time in the seasm, which was at its height this yearabout the second week in duis:

The manufacture of the loxes in which the haskets of herries are packed is no small item, and de stemboats thea earry this extra freight are obliged to employ extra men to hande it.

This business, ihough at first view it sems small, gives employnemt to, and distributes its grians among theisamels of persons.
Front the Mithon landing, hle averape daty export is 10,000 baskets, and the retail price in New York averages abou ten cemts per basket; thus the proituct of Ifio acres amounts to 81,010 per day, or $\$ 42,000$ per senem. We call to mind no other crop which produecs as much per acre, or which gives employment to so many.

A mbiculitune or lowell canaba.

## Horses.

With respect to horses, there js, perhaps, more attention bestowed upon then gencrally, than upon any other farm stock, hiongh their munagement is, neverthelcss, fir from leingr unobjectomable. It maty be sait that we have 110 distinct breed of horses in lower Canadi, but a mixture of every lreed known. This confiusion of breeds is to be regretted, particularly so far as regards what was linown as the true Catadian breet of horses- so weil adiapted for the conutry, and for agrienlumal purposes. I know there have been oljections made to their size for farm parposes, but if this defect really existed, it is one perfectly eapable of remedy by proper selection and judicious breeding and feeding, The form of the true Canadim horse was unexceptionable, and I have no doubt he wonld weigh considerably more in proporion to his hcight, than any horse of the mixed breeds we have al present. It would be impossible so fimd a more perfect slaped horse for dragitht than a first class Canadian horse, and while we havo
such animals in the eountry, the breed mieght be brourtht up to any slandard of si\%e that would be thourit neeessary, ly judieions managrament. It is by urefal selecion and judicions management, Hat olher breeds of firm live stoch hate been brourht to the sreat perfection they hare allaned in bist fant. It is not acelual size and height which rives strenght to a horse, though size and hoight may be necessary for certain purposes. it is the form of the horse that indicates strourth or the absence of that quality, I have fregumaty seen horses not of harge size perform their work mueh better and with nome apparent ease than larrer horses. I do not atrocate forses that are foo small for their work, is at considerable pontion of our present stods extainly are, from neglect in breeding and inssfiicient food. The pmre Canalians hneed of horses when ! liss canus to this contatry was of moderate but sullieiont sime; strong, active, atad havdy, wel! whaped to arriculamal purposes. It is, forwever, aliflicult now to tind any of this breed in its purity, and the erosses wit! other brects have not genernlly been an improvemont, eithor in form, streneth, aetivity or onduranes. ?lere are execptions, I balieve, where the cross has been with inported English breeds of honses of very aood quality, and of very similar com to that of a geond Canadian horse. These crosses have sucecoled very well, and have endared the size of our horses. The irue canse, however, of delicioncy of size, is actaally mismanargement, both in breedmer and feeding, so thin there is scareely a groud specimen of Camalian horse now io the famd. If muth be a groat loss in a country to have a mumemus stock of horses not staliciently siront for the work thoy have to perform. It is quite impossible that any bread of homes enuld be kept up to the proper statidard of size, while there was so lithe attontion aiven to selection for breeding, in cither the mate or the fermale ; and the iater have, in momenms instances, been allowed to breed when only: wo years old. We could not expeet any other resalt from stob mismanagement, buit a dwadled and inferior race of horses. Fortunately, it is in the famors power to adopt is romedy; first, by strictly confininer all stallions, atal not allowing tham to go at larige on any pretence; sucendly not to lread from mates of inferior quabity, nor allow mares to breed nutil of proper are: thimbly, to keep only such stallions as might be expeeted, from their excellence, to prodnee grool, and porfectly somal progeny. If these simple rules were strictly obsemved, and horses supplied with suitable food from their birth, we should have guite a superior stock of horses to those wo possess at present. llorses would be a rery profitable stock to cultivate here, if judiedonsly managred amb kept ip to the required standard for gemeral purposes. 'lhere is a constint demithd and a titif priee athamable for almosl overy description and size that we have now, and We shonld have a vory much better market and higher prices, if our loorses were what they might be. 'lhe pure Camadian breed of horses is highly prized in the neighboring States, hut thej complain that it is a hmost impossible mow to prucure any of the true breed. In Lower Cimida there is every encouragemont to cultivato a good deseription of horses, both for our own use, and for sale to foretigh citstomers, who come to the farmer's doors to purchase thom at a good price. If Canadian furmers residing at a considerablo
distance from Montreal and Quebee were to give duoattention to the breeding of thorses to it ratsonable extent, they would pay them, perhaps, as well as any stock they could raise; but, bike all other Jarming live stock, the sticcess atid profit wi!l depend upon the skill and good management bestowed upon their breeling and lueding. Thers are many Camadian farmers who understund the manfrement of horres much botier than 1 conld inform then, and keep oxealent horses, but it is not for such farmers that [ sulmil these suggertions. I an perfectly aware that we hare ats grood fammers in Lower Camadat as can be found on this continemt, and who farm as well in every deparment as tan be desired. We have also some excollent live stockhorses, neat cantle, sheep and swine, and thoy are well managed and atiended to. It is not, however, for agriculturists who understand their own basiness, and who are perfectly conseions of their skill in everylhing which belomes to their profession, that I womld ever atleapt to write on the sulject of agrieulture. I only write for those farmers who may think That some of my sugrestions might be aldynfageonsly adopied, alld wond le an improvement of their presentisystem of fashandry. I therefore reguest that skilfal and praticad igricultumists who may lappen to read my communications will do me the justice to believe, that I do not protend to wrrte for their instruetion; but rather to irduce farmers who may not be so woll qualified or instructed in their protession, to alops the improvemonts that are manitustly reguined in their system of husbudry, and thes be mpon it more equad footing with itue most skilful agricnlturalists, which they never cata be while thoy practice a defeetive system af auricuture.
genhama bemabies.
I believe it is very gememally admitted that the ambie lands of Lower Canada might very readily be made to produce on an average, over double the erops they do at present,-notwithstading that we raise some excellent crops,-by a more judicious syeten of husbandry. l'here is not any donlt that the live stock of the comotry, thongh wo maty lave at considorable proportion very georl, is capahle of improvement to filly the same extent on an avemare, so as to be worth donble the amoun they are woth in their present condition. It may be jmasinesi, then, how Yasily the property of agriculturists might be incrensed by the introduction of im improved system, that is guite pussible. I have not in niy power to give the exach numbers of our live stock at present, Dut supposinger lhem to have increased within the last twenty years in the same proportion as our pophlation have inereased in the same period, our stock of horses would now be litte shor of 900,000 , ment catte 700,000 , shaep from 500,000 10 900,000 , and swine from 500,000 to 600,0000 , and jerhaps there is from $3,000,000$ to 4,000, .. OW arpents of land in tillage, meadow, and pasture. If this estimate le nearly correct, and that almosi all these live stock; and this freat extent of arable land, are only producing now, lalf as much as they would he eipalje of producing anmadiy under a better system of arriculture, shond hot this fact be sulficient to show that the necessary improvements should bo introduced by allmeans that are possible. If we are satisfied that our system is dofective, ind that those defects are of such a natare as to be under our conthot, and capable of remedy; as they nuquestionably are, there is no excuse for allowing
a defective system to continue. One of the greatest difficultios to firmers in a new country so extensive as Canadia, was the want of easy access to market with their produce. Jeretofore, this circumstance was felt to be a serious elrawback, and exereised it very unfavorable influence on ingriculture. liarmers had no encouragement io produce mued in excess of the sinply of their own wints in simple food and elothes, from the difficulty and expense of taking any surplus to market, and disposing of it. Now, this difliculty is to at great extent removed, and the means of rapid and cheap aceess to market is already very weneral, atid likely to become more extended every day. The Recipucity Treaty lats given us the United States for a market, in addition to the markets we had before. It is almost impossible that our position could bo move tavorible and encomaging for tho improvement of our agriculare. When 1 came to this commtry, we had neither cand, ribilroad, nor tampike road, and only abont half a dozen steamers on all the numerons rivers and waters of Lower Canada. Compare what we have been with our present proud pusition. We lave the most splendid line of camals, completing an inland water commmiteation, hath is unequalled in the world, for more than a thousaud miles from the sea, for ser-going ships and large steamers. We lave over one thousand miles of railrond, and, I suppose, about five humdred miles mure under contract, and all these roads are construcled, in the very best possible situations for aflording accommodation and convenienco to all classes and interests, and 1 have no doubt, from the high character of onir comitry; railronds maty be extended to answer all our requirements. We have turnpike rotids infroduced as an experiment where most rerpuired, and thoy may be extended by our Municipalities where considered to be necessaty. We have numorous bridges over large rivers, where there was not one: and there is now constructing over the great River St. Lawrence-a bridge, that when completed, will be the grentest in the world. Our navigrable rivers and inkand sens are covered with stomers of all sorts and sizes. We have a weekly line of Mail steaners, Jong established between Enghind and Halifax, and a contract is made for a similar litio between Eugland and Montreal to commence in spring. These advautages are all, or nearly all, calculated to act as an encouragement to our agriculture, provided the charges for transport are not too high, and I may saly, that all these advautages hive been introduced within the last twent5five years. In addition to all these, our agriculture is represented by it Department in the Government and the Legislature have gramted an aid of fio50 ammally to the Agricultura! Societies of cach county, on the favorable condition of the sociely subscribing the one-third of that amount amongst themsolves for the same object. I enumerato the advantages which our anriculture has at present, and which they did not possess twentyfive years aro. There is another circumslance worthy of notice-that whilo the cost of transport of our produce to market has generally been greatly diminished, tio price of our produce has been vasily inereased. I must, however, admit that with all these adrantages, farmers had some draw-back, to which they were not tiable previons to tho yoar 1835, I allude to the ravages of tho wheat fly, and to the potato disease. The
first of thase inflictions patucularly, was a very great injury to agrieulture in Lower Canada, and it was the more felt, beciuse farmers did not immediately adopt the remedy of cultivating other crops instead of wheat, but elung to the cultivation of the jatier grain before they had discorered any means of checking the ravages of the fly, by substitnting now varieties of seed, and sowing at a later scason than usual, remedies which havo been found to check consilerably the power of the fly to damage the crop, though it does not prevent the injury altogether. Under present circumstances the wheat fly is not so sorions an evil as it has been. By skilful management soma farmers are ablo to grow very fair crops of wheat, and if some farmers can do this; others may do so by adopting the same means. The great mivantage of skill in agriculture is, that it enables the farmer to understand and overcome difficulties that may arise in the practice of his profession, which the unskilfiol farmer is mable to copo with. The markets of the United Siates, which are open to us at present, render the cultivation of peas, barley, and onts, as profitable as wheni, particularly if these latter grains are sulbstituted for wheat on lands that are not suitable for producings it in the greatest perfection. Farmers may rest assured that a grood crop of peas, barley, or oals, which I may add, are certinin crops here when cultiyited properly, will pry much better than an inferior crop of wheat, or any crop of wheat that is undor a fair average. The markets of the United States were not only closed to us by heavy dutios twenty years ago, but there was a considerable importation of agricullural produce from that comitry. Now theso markets ate open to us, and the importation of agricultutivil produce to Canaila may be saild to be at an end. These advantages are more than sulficient to compensate us for the damage of the wheat lly and the potato disense, particularly now that a remody for both these inftictions is better undersiend. I havo no donltt that with the advantage of the Reciprocity 'Irealy, Lowor Comadian farmers will find it their interest to grow barley, peas, ind oats, rather thin wheat, whero there is any uncertainty of a fair crop. It is better to allow those who can, to grow wheat, and we can exehange the grain we grow in perfection for whent. It appents to be a very proper subject of enquiry, whether our agriculture has made that progress in improvement within the list twenty-five years which might reasouably be expected, under all the favorable circumstances I have enumerated. So far as I am acquainted with the subject, I have no hesitation in saying that very considerable improvements have been introduced, and with every prosplect that these improvements will rapidly extend ; but, at the same time, it must be minifest, from this review whieh I have attempted, that our agriculture generally is still in is very backward state, and is susceptible of vast improvement in every department. My chiof object in preparing this reviow is to bring this subject, that is of such vital importance to Camada, prominently before the public, and agriculturists in particular, that means may bo adopted to correct any defects that are found to exist in our systen of husbandry. I know that the progress of ayricultural improvement must be slow but at the same time we should accelerate its progress as moch as possible. I must, however, conclude for the present,
but I shall have to trespass upon you on a fulure occasion.

WM. EVANS.
Montreal, December 28, 1854 .
Montreal Gazelle.
$\qquad$ :0:-

## AGRICULTURE.

The sustenance, clothing and comforts of the human race come mainly from the soil; and whilst commerce is absolutely necessary to distribute its fruits, yet it is evident that we cannot too highly apprecinte the dignity and importance of that profession which produces them. The cultivation of the soil is the first and most important of all secular employments, and io it slould be lurought, even more than 10 any ollicr, all the powers of intellect and all the attainments of seience.

Nor does the soil yield an ungrateful re-turn for the application of intelicet and science. The man who first applied the principle of rotation of crops more than doubled the produce of Britain. Jlie man who introduced the cultivation of turnips and other root crops doubled it again. Ilie man who applied thorough draining to the soil introduced a principle which has doubled or will double it once more. Thus, with the same area and natural capabilities to work upon, the surface of Britain produces probably eight times as much as it did a century ago, and we may well ask where is the limit to this progression? Phe old Fly Coach yielded to the Royal Mails, dashing along at a speed of eleven miles an hour, and those who thirty years ago chronicled this marvelous elingere, doubiless thought that the utmost linit of rapid lacomotion bad been attaned. But in that short time, all these dashing coaches have been hopelessly distanced and driven on by the long Mailway Irain: Aul cren that, lor the transmission of intelligence, has beed left creeping behind by the Electric Telegraph. In like manner, the present perfection of Agriculture in the Lothians, East Anghia, and Belgium; may be utterly distanced by some future appliation of the simple principles of science. The great truth, that the man who doubles the depth of his productive soil virtually doubles its extent as mucls as if he had added another farm of equal dimensions, is capable of indefinite application: and it is, we confess, in this direction that we look for the greatest improvements in modern agriculture: Thorough draining and deep ploughing ale approximations; but, inasmuch as the roots of most plants will, under favorable circumstances, penctrate to a depth of three, four, or five feet, we think there can scarcely be said to be a commencement made yet in the science of deepening the soil.

Were every intelligent farmer to consider his farm, in some respects as a laboratory, and he himself ns a scientific experimenter, with a view to benefit not only himself but the human family; were he to obtain all the information he cant, and then to proceed with a continual series of such experiments as
would not materially interfere, even slonild they not prove suceessful, with his profits; and farther, were he to communicate to the publie, through a Bureau of Agriculare. the results of these experiments, he wouth find his mind cultivated, enlightened, and expanded, and his profession invested with a dignily and importance of which the mere mechanical routine farmer can form 10 conception ; whilst the aggrecate of such experinents acted uqon and applied by so many diilerent minds, wouftion certain to elicit grent respuls. - The Witness.

## THE CULTIVATION OF POTATORS.

A light soil abounding in rich organic mater is fomal by experience to produce the largest crops of potatoes ; but since the visitation of the mysterinous seourge the "Potito Disease," it has been fommed adrantageous to cultivate them on light, porr soil, for while the rich soil in many instances continues to grow the largust crop, the lubers are disensed amd uppalatable so that a small sound crop is more profitable. I'he poor sandy soils around this city are now phanted widh potatous to an extent that almost excecels belief. We were in the town of Waterviet a short time since, and called upon several farmers in the town in order 10 asscertain a few facts in regarl to the cullimation and yiuld of their staple crop. We went aiong three roals, enclosing a triangular piece of land coutaining somewhat more than a square mile, and called on thirty farmers whose houses were near the road. Those thinty farmers raised the past year soventy-sin thousand, sin hundiced and tucnty-tuco bushels of putatocs. Several of the farms were more than half planted every year with potatocs, and on two or three firms three-fourths of the hand was thes occupied. On one farm, that of L. $\mathbb{\&} A$. Gove, 8750 bushels were raised this year. D. D. T. More, on 55 neres, raised 6205 bushels. The Messrs. Osborn on SS acres, 7710 bushels. J. Ferris, 7500 bushels, and many others raise annually three, four and fire thousand bushels of potatoes.

Thle yiedd per acre is not large ; the average of these farms where we could ascertain the number of acres planted, was $10: \frac{1}{1}$ bushels per acre, the lighost farm boing 133 bushels per acre-in this instance three fourths of the farm,( a small one:) was in potatocs.

Peruvian guano is used to a considerable extent, and is found a cheap and effective fertilizer. In one instance we found a lield where potatoes had been grown four years in succession manured with guano, and the crop thens season was the best it had ever produced, averaging 150 bushels per aere. It is somewhat remarkable that this light, sandy soil, which we should suppose poor in all the mineral elements of plants but especially in potash, should thus anmailly yiuld a fair crop of potatocs, which of all our agri-
cullural plants removes from the soil the most potash ; and the Peruvian guano should prove such a powerful fertilizer, whife of all manares it is the poorest in potash-containing not thore than 2 per eent.

A grood clover sod, plowed under iminediately before planting; is consitered the best preprazation for potatoes, though since the introduction of gumo potatoss are frequently planted after potatoes, corn, rye, \&e. Plaster, about 12 bushels per acre, either sown broakenst or seatered on the lills just as plants are breaking the soil, is ate effective fertilizer and is used to a considerable extent. Phater on this sady soil, has a highly beneficial effeet on clover.

Potators of medium size, are usially phanted whole, in hills about 21 beet aptart, 10 bushels of seed per aure. Plant as early in the spring as the soil will admit, and many farmers contime phating as late as the first week in Sune, but the erops are light. 'Ihe Nercer, although a poor producer, is the fivorite variety, now commanling the highest price. I'lic loner Johns will yichl one third more per acre, but they bring a less price and when the market is dull, it is diliicult to sell them at all.
A few farmers still draw manere from the city, turee miles, but since the introduction of grumo the practice is becoming less common every yeat.
We met with a fer good old farmers who had never tried gunno, and had "no fatith in it ;" but all who lhat used it, without excegtion, thought it a " powerful" manure; yet we were somewhat surprised to find that no one could give cren a good Yaukee guces as to the number of bustrits of potitoes orer and above the umanured soil 100 lbs. of guino coith produce. M. D. D. T. More used 200 His. of Permita guano on potatoes side by side with "Northern Marl",-ill artiche, we believe, which is said to contain a large quantity of phosphate of lime; - the mard did $n o$ good, while the guano "increased the crop fully one third." Mr. More's crop areraned 113 bushels per acre, so according to difis, 200 ibs. of guano increased the eroper hash. per acre. The safose way to apply gumo is to sow it broadeast and plow and harrow it in inunedintely; but it will produce a great effect if placed in the hill with the potalo, hat great care is necessay to incorporate it well with the soil, for it vill assuredy kill the seed if it come in contact with it.

There is nothing remarkable about the metlool of cultirating potatocs in this district ; the reason why farmers have engaged so extensively in licir cultivution is to be ascribed to the almost total exemption from the rot, which is so injurious in richer and heavier soils.
propagation of fisit.
Tnformation of the highest importane on the artilicial propagation of fish was laid before the late meeting of the British Association. Experiments with saluon, made at Perth, Scotland, have been extremely suc-
cessful. Three hundred boxes were haid down in twenty-five parallel rows, each box partly filled with clean gravel and pebbles. On the $23 d$ of T.)ecember, $1853,300,000$ owa were deposited in the boses; in Tume they were admitted into the pond, their arerage size being about on inch aud a halt in length.--Prom the time of their admission to the pond the liry were fel daily with boiled liver; rubbed smail by the hand. By the spring of the present year they had increased in size to the average of three and four inches in length. Oat the ed of Blay a mecting of the committee was hetd at the pond, in consider the expediency of iletaining the fry for mother year or athowing them to deprat, hat it was thought they hail not assumed the migratory dress till the 19th, when the stuace communicating with the river Thay was openen, and every lacility for ugress afforded. Goutrary 10 expectation, none of the by mamested any inclination to leave the pond until the 2lth of May, when the larger and nore mature of the smelts, alter having held themselves defached from the others for several days wemt ofl in a body. A strics of similar emigratious took phace until full half the liy lind lefi the pond, and desecmed the sluice to the 'finy. Tt has long been a subject of controrersy whecher the fry of the samon assume the migratory dress in the second or third year of their existence. So faromable an opportunity of deciding the question as that athorded by this experiment was not to he overlooked.

In oriter to test the matter in the fairest possible way, it was resolvel to mark a protion of the sumets in such a mamer that they miglit easily be detected when returning as grilse. A temporary tank, into which the lish mast necessavily desecme was consirncted at the junction of he shire with the Iay; and as the shoals successively tof the foom, aboat one in every lumdred was marlied by the adseission of the second dorsal lin. A greater number were marked on the 291 h of May than on any other day, in all about 1200 or 1300 . 'Jhe result has proved highly satisfactory and curious. Within two montlis of their liberation, twenty-iwo of the young fish so marked when in the state of smelts on their way to the seit, have been, on their returning migration up the river, recaphured and carctully examined; the conclusions arrived at are most gratifying, and proved what has heretofore appeared almost incrodible the rapid growth of the young fish during their short sojourn in the salt water. Those taken first weighed 5 to 51 lb ., then increasing progressively to 7 and 8 lb ., whilst the one captured on the 31st of July weighed no less thon $9 \frac{1}{2} \mathrm{ll}$. Tu all these fish the wound caused \& by marking was corered with a skin, and in some a coating of scales had formed orer the part.

The experiment has afforded satisfactory proof that a portion at least of the fry of the salmon assume the migratory dress and descemal to the saa shorily after the close of the first year of their existence ; and what is far more important in a practical point of
viev, it has also demonstrated the pactability of rearing salmon of martctable value within (wenty montlis of the deposition of the oras

There can be mo doubt that the quantity of salmon (as well as other fisth), may be enormously inereased by the artifical breeding process, and we regard the experiments as of great importance. A1 Cleveland, Ohio, succuss has attented the first experiments of Dr. Garlick and his coadjutor, who may to a rast deal for their futhow men ly fully populating our western lakes. In the salmon region, enst and west, the subject deserves atiention and there is litte doubt that in neighoring sirers where satmon is now miknown, they might by thus suecessfilly introduced. How mach more useful would it be if some of our sportsmen would take up the sulpect instead of devoting tneir hearts, bodies, and time to the poor cenjoyment of shoooting useful "birds :-Horticalturist.
hired men, and their employers.
Some years ago the son of an English farmer came to the United States, and let hinuself as a farm haborer, in Now York State, on the following conditions: commencing work at the 1 st of September, he was to work tei hours a day for there years, and receive in payment a deed of a feld containing twelve acres-securing himself by an agrement, by which his employer was put under houds of 52,000 to fullill his part of the combact ; also, during these three yenrs he was to have the control of the fiedid to work it at his own expense, and to give his cmployer one-hatl the proceds. The field lay tander the south of a hill, was of dark heary clay, resting on bluish colored solid chay sulh-soil, and for many years prerious had not been known to yield anything but a yellowish stunted regotation.

The farmer thought the young man was a simpleton, and that he, hiniself, was most wise and fortunato; but the former nothing. daunted by this opinion; which he was not unconscious, that the latter catertained of lim, immediately hired a set of faborers, and sut them to work in the field-trenching, as carnestly as it was possible for men to labor.
In the morning and evening, before and after laving worked his ten hours, as per agrecment, de worked with them, and contimucd to work in this way until, about the middle of the following November, he had linished the laying of nearly 5,000 yarts good tile under-drains. He then had the field ploughed deep and thoroughly, and the earth thrown up as much as posible into ridges, and thes leti it remain during winter. Next spring he had the fietd again ploughed as before, then cross-plonghed and thoroughly pulverized with a heary harrow, then sowed it with oats and clover. The yield was excellent-notling to be compared to it had ever been seen on the field. Next year it gave two crops of clover, of a rich dark green, and enormously heary aud luxuriant; and the year following, after being
manured at an expense of some $\$ 7$ an ace nine acres of the tiek yielded 036 bushets of corn, and 25 wagon loads of pumplins; whe oft the remaining three acres were taken 100 bushels of potatoes - the return of this crop bevine upwards of 1,200 . The time had now come for the field to lall into the goung man's possession, and the farmer unhesitatingly olfered him su, 1,500 to relinquish his title to it; and when this was wheistatingly rufused, he ollered *2,000, which was atcepited.

The young man's actount stond has:
Half procecds of oals and stan
frest jetr. . . . . . . . . . . . . . . . ${ }^{*} 1653,00$
Half value of sheel pasturage,
thrst year. . . . . . . . . . . . . . . . 5500
Hall of hist erops of elover, first
year. . . . . . . . . . . . . . . . . . . . 119,50

Hatf crops of corn, pmapkins and
polatnes, hlird ycar'. . . . . . . . . 690,00
Received from farmer for relin-
quishenent of title. . . . . . . . . . $2,000,00$
Account Dr.......... . $43,232,50$
'Io mader-druinag, habor
and titles. . . . . . . . . 8325,00
To labor and manure,
three sensons. . . . . . .475,00
To labor given to lamer,
$\$ 16$ per month, 50
monllis. . . . . . . . . . . $576,00.11,376,00$
Balance in his favor. . . $\$ 1,556,00$
Our lamers must learn that knowledge and eaterprise and perecerance exureised in their business, will not only add a handred fold to their own income, bin will also confer more permanent benefit upon our connery than these guatilies exercised in the same degree in any other business whaterer. $-N$. Y. Jimes.
the rotato crob of is55.
'There are some facts in comection with the potato erop of the last season, which are worlly of motice.

When that scourge of the pointo, variously called " rot," or disease," began to rage generatly and destruetively in this cometryabont the years 1845 and 1846-speculation became riie as to dite cause and cure of the intilady. While the mindis of some persons were haboring betwes. "insects," "fuagus," amd " consitutional dugeneracy" as the canse, turd" salt," " line," and " raisting from seed" as the remedy, the new "philosojhy" of the "Poughkeepsie Scer,"endorsed by prolessed "'s spiritual melliums." -anmanaily disposed of the subjeet by declaring that the phant had rum its destined course, and was soon to become extinct! In future, potatoes, if brought to our tables at all, would tes shown merely as fossid relies, to illustrate the gramd idea of : progress."

But this new light lid not bean with conrerting power on ail men ; many were deter-mined that so ratuable an esculent shoud
not be given up so. The polato discase, therefore, conthated to furnish a theme on whind mach could be said on all whes. The ablvocates of the notion that the phant had drgenemated from loug propagation by tubers, conteated that it conk be remerated by propagation from seed. Of wonse varieties from seed were soon produced, for whith a ercenlous puthe were williug to paye eno:mans prices, withou waitheg to have their sumerority temonstated-surh was the confuncece in the system. It would be interesting to fo,0w how many of hat himis prodteed from seed soldat ine dollurs an ombe, or from tabers sold at an dollars: bustrel, within the tast, fen years, are still
 have sern tuats with many of the new kimals -a large proportion of them haw been thrown up as wurthess or unprohtable. 'I'aking them together, they have even slown more tenteray to rot han the old lands. It is true that some valtable kimbs bave been produced, but this faed is nothing in referenee to the idea that dhe species has degencrated and can be renowted by raising from seed. The new linds should show a sencral improvement. But where one has proved sood, a dozan lawe proved anod for nothis.g. The history of the supe ind sort known as "Davis"s Seelling" may he given in point. We lave becon informed by the orginator of this varity that be probined many others about the same tince, and that all except one were given up after a fow years" trial, an account of their tendency to rol. We kow that something tike this has been experienced in mamerons instances.

Rut the reatls of the hast season ought to nive a quictus to the hypothesis (it is not worthy the nanc of theory) that the potato disense is attrithutable to degeneraty of the species in conseguence of proparaion by tuhars.

The vigorons growite of the potato plant in 185s, attracted attemtion from the start. The stalk was large and strong and the leaves numerons ant of good color. The early crop in this ribinity was preater in yied per acres and came to marke in better condition than for many previons years. it comsisted in a great degree of the variety known as Meseer, with vavious synonymsas Gilky, Neshamock (sonetimes corrupted to Meshanick), Chenamo, Ne,-a variety which, although not comparatively old, has heen so predisposed to rot that in sonie sections it las been given up on that account; yet it came nut this year in great perfection; as to yield, appeantuce, and quality.

The later and main crop showed the same flomrishing growth; but in some instances the tops were so green as to he somewhat aujured by the frost of the 31 st of August. In other instances the tops were afiected with the hisinh-the premonitory symptom of the rot-though the athack was much less general and less rirulent than usual. Some
tubers hare roticd, but we have heard of only a few sections where the danage las
 of thase which bave come to matket daring the autumand up to the presena time has left nothing to comphain if on this seore, white the price- 00 to ( $: 2$ cents jer bushat, at wholesale-shaws that there is no deffciency in the guantity. 'lle favorite Carter mariety, possensiny at its pisho mealimess and haror, has been rehelima, at 70 to 75 ernts per fushel. 'This is another of the kimis which has hero very lishe to rot--a and ho that its cultivition was to a considmabe extemt ibundoned. We have never sem it better in enery respect tha it mas at the hate lawest, and our winters supply had in at the thene, in fice from every Nefert.
The superionity of the hast crop is not contimal to nur own comery : from the Bhitish Islands and the Continent of Enrope we liave accounts of :is good yield and qualiey. The ALurl Lanc ELrpross in its review for October, says-
"The potato erop in all parts of the United Kingdom, but more espectial!y in freland and Scotand, is proving wonderfuly harge and almost wholly free from disease. It is much to be regretied that so miny reports of an opposite tembency should have Foand their way into prim during he last two or three months. Whaterer argumens miy be adrameed to the contray, we athen -and we do so advis dy, and after the most mature considemtion- - hat the agyrenate g; owth of potataes is hy far the leeges: and bet ever tnown. This great her will, mo domb, have considerable inhluenct: upou the value of other tinds of food."
Of the crop in France, the Reve Conlemprovire siry -
"We receve from all sides most satisfactory aceounts of the potato. The diseass: with which it has been attaeked for the lass ten years, is on the ere of completely disayprabing. It has scareely shown itsell at ail in a great number of departments that most remote from cach other, and in those where it has appeared the injury it has inticted is very triflime."

It should be noted that in linese accoums nothing is said about the new lifnds doing any better than the old. If any such superiority hal been slown, it could not have escapad attention and remark. All hat can be said is that, from sone catse which human knowledge has not get reached the potato, on the whole, has heen comparatively liree fron distase during the pasts season and that this cxamption hes wo speciud reforence to new or old varielics.--bovora Culldicator.

Agricumphaf. Statintics.-Whe Senttish agrivultural statistics for the year 1855, voluntarily rendered and coliected, for the second year, by the intelligent and publicspirited farmers of Sendanis slow hen follow-
ing aserdined results, as coulasted with the estimates of MeColloch and other writers: Former estimates Ascertinued. 1854. 1655.

Qus. Qus. Qrs. Wheat. . . 1,225,000. .606,063. 632,917 13arley. . . . $1,800,000$. .054, (950). . T5 1.61: Ont . . . . . 6,001,000.4,281,789.3,758.893 Hexask'l'ens. 150,000..135,115. . 147,956
9.675,000 5,027,917 $5.301,279$ The potato crop las year yielded 732.141 tons, agamse 209,96 toms in $18 \pi 4$. If the whole produce of the two hat harvests in Bcouland be pedured in tons weight, and protatoes be itestuted, the result is found to be that there is very litile diterence between the lan; the year lSõt having yithed $1,53: 004$ tons of food for man and beast, and the present year $1,592,604$ tons.

## THE Jog.

It is no umpleasing employment to stedy the degree in which the several breeds of dogs are not highly inteligrent, but fitted by mature for the particnar duty they have to pertom. The poiner, the sutter, ihe houmd, the greyhown, the terner, the spmel, and evell the bull-tog, were made, atad almont periceted, by n.t re elielly for nim ollice alone, alohough they may he usefol it many wher ways. Thes is well illustrated in the sheep-dog. If he be hut with his master, he lies content, indiberent to every surounding object, sumingly halfastoep and hall awoke, rarely minglng wilh his kind, larely cont $t$ ing, and genertally shanking from the notice of a stratiger fom the moment the daty calls, his sleepy, lintly eye, beromes hightened; le eagroty gazes on his mastor, impures and compreleeds all he is to do, and, springing up, gives himeelf to the dischairgo ol his duty with a satomeity. and fiblelity, and derotion, too rarely equalled aren by man himeself.

Mr. James Dogeg, the Dtrick Ehepherd, living in luis early days nmong the sheop and their quadruped attendans, and an acemate observer of nature, as well as all exquisite poet, gives some aucdotes of the colley, (the Ilighland lerm for sheep-digg.) with which the reader will not to displeased. "My don Sirrah," says he, in a letter to the Editor of Blackwond's Edinburgh Magazine, was beyond all comparison, the best dog I ever saw. He had a somewhat surly ind unsocial temper. disdaining all lattery, and refised to be caressed; but his attention to my commands and interest will mever again be equalled by the canine mate. When I first sav lim, a drover was hading him with a rope. The was hoth lean and bungry, and far from being a beatuiful animal; for he was almost black, and had a grian face, striged with tark brown. I thought I perceived a sort of sullen intelligence in his comentenanee, notwithstanding his dejected and forloun apmanace, and l hought him. I Te was searedy a year old, and knew so litile of harding the bad nuver turned a shecp in his
life ; but, as soon as he diseovered that it was his duty to to so, and that it cibliged me, $Z$ can never forget with what ansioty and eatgerness he learned his diherent evolutions: and when $L$ once made lim usderatand a direct on , he nerer forgot or mistook it."

On one nipht, a large flock of lambs that were inder the Ettrick Fhepherd's care, trightened by something, scampered awny in three timerent directions arross the hills, in spite of alf that be could do to keep them topether. "大 Sirrah," suid the sheptred " They're a' asn!"

It was too dark for the dog amb lis master to we each other at a cousidemble distanere, but sirvah understood him, :nd set oft: fier the figitives, the night passed on, ame loger :nd asistant traversed eroy mothourag hid in ansious but fruitess senreh for the lambs; but he cotd hear nothing of them nor of the dore and he was returbing to his master with the doleful intelligence that lo had lost all his lambs." "On our way home, howner," says he, "wo diseowered at lot of lambs at the botiom of a deep ravine called the Flesh Cleuch, and the indefitigable Sirrah standing in front of them, looking romed for reliel, fore still tree to lis charge. We eonseluded that it was one of the divisions that Sirmaly hat locen mable 10 manage, antil he came to the commaming simation. But what was nur astonidment whell we discopered that not one lamb of the flock was missing! How he hat got all the divisions collected in the dark, is beyond my comprehension. 'The charge was leflentirely to limself from midnght until the rising sins: and, if all the shepherds in the forest hat! been them to have assisted him, they conld not have effected it wifh greater promptitule. All that $T$ can say is, mat I newn Jolt sn gratefnl to nuy creature wider the sum as 1 did to my honest Sirah that momine:"

A shepherd, in one of his excursions over the Grampian Hills to coblect his sattered thock, took with him (as is a fregment procfiree, to initiate them in their future business) now of his clitdren about four years old. After traversing his pastures for a while, attented by his log, he was compelled to areend a summit at some distance. As the ascent was too great for the chind, he left lim at the botiom, with striet injunetions not to move from the pace. Sarenly, howerer, had he ganed the height, when one of the Scotel mists, of frequent occurence, sutdruly tame on, and almost changed the day to night. He retumed to seck his chide, but was mable to find him, and concluded a long and fruitless scavel by coming distracied 10 this colfage. This poor dog also was missing in the gromeal confusion. On the next marning by daylight he renewed his search, but again le came hack without his chid. He found, liowever, that during lis absence his dog hal been home, and, on receiring his allowance of lood, instantly departed. For four sucerssive days the shepherd continned his search with the
same had lortune, he dog as readily coming For his sual and doparing. Strmble by this singular cirtumstance, bic delermined is follow the dog, who departed as usual with his bisece of cake. I'le amimal led the way to a catarate at some distane from the spot where the chind hat leen left. It was a rugeg ind almost perpendieutar desceent which the don fook, and he disappeared in a enve, the momh of which was almost on a lered with: the torrent. Ihe shepherd with dillicuty followed; lut: an entering Whe cavem, what were his enotions when he wheld the infant cating the cake whieh the dog had just brenglt to lim. white the faillful animal stond by e evong his yomas charge witl the ulmost complacen-y! From the sifualion in which the child was found, it apheared that he: dand wandered to tha brink of the mexipies, amd then either fallen on srambled down--the torrent preventing his re-iscent. Iltu dors by means of his sceut had traced him to the spot, and afterwards prevented him from starving by giving up a part, or, perhaps, the whole of his own daily allowance. IWa agears nerer to have quitted line child might or day, except for food, as he was seen ruming at full speed to and from the collage."

Mr. Hoges siss, and very trmy, that a single shepheerl and his dog with accomplish mone in rathering a flock of sheen from a Tlighamí farm dhan (wenty shepherds could do without dogs; in hact. that withonit lus docile animal, the pastoral life would he a mere hank. It would mpuire more linads to manage a fools of sherep, sather then from the hills, torce them into houses and Folds, and drive them to matkets, than the prolitu of the whole lock would be vapable of maintaming. Well may the shephert fed an interast in his dor ; he it is inkerd that rams the family bread, of which he is himself content with the smallest morsel : always gratefal, and always reaty to exert his ntmost abilifies in his master"s interests. Nether houger, fatigue, wor the worst deatment will drive hin from his side, and be will follow him through every harkhij wilhont mumariug or repining. If one of them is oitliged to elange masters, it is sometinus long before he will achowledge the new owner, or condescend to work for him with the willingress that he did for his former lord; but, if le onen arknowdeders him, he tontinnes attached to him until death. $\because \dagger$

We will adh anolher story of the colley, nut procend. It ithatates the memory of the dog. A shepherd was employed in bringing up some monntain slicep from Westmoreland, and took wish him a young sherp-doge who had never mate the joumey

## - Amals of Sporting, vol. viii. p. 83.

$f^{\text {a }}$ Whe batrick thepherd has probibly spolich somemhat ton emhumastically of his cog ; bat aceonnts on the sagaeity and athost sugerhmman fidelity of this doy erowd no rapilly ypun us that we are ennpelied to admite and lave him." - Herg's Shepherl's Calenter, vol ii. p. 308.
before. From his assistant being ignorant of the ground, he experienced great dificulty in having the flock stopped at the various roads and lanes lie passed in their way to the neighbourliood of London,

In the next year the same shepherd, accompanied by the same dog, brought up another flock for the same gentleman who had had the former one. On being questioned how he had got on, he said much better than the fear before, as his dog now knew the road, and had kept the sheep from groing up any of the lanes or tirnings that had given the stepherd so much trouble on his former joumey. The distance could not have been less than 400 miles. *

Bullon gives an eloguent and faithful accomit of the slicep-log.-" This animat, fathful to man, will always preserve a portion of his empire andia degree of superiority over other beings. LLe reigns at the hend of his flock, and makes himself better understood than the voice of the shepherd. Safety, order, and disciphine are the fruits of his vigilane and activity. They are a people submitted to his managenent, whom he conducts and protects, and against whom he never amploys force but for the preservation of good order." "If we consider that this animal, notwithstanding lus ugliness and his wild and melancholy look, is superior in instinct to all others; that he has a decided character in, which ellueation has comparatively little share ; that he is the only aumal born perfectly trained for the service of others; that, guided by natural power alone, he applies himself to the cave of our hocks, a duty, which he executes with a singular assiduity, vigilance, nomi fidelity ; that he couducts them with an admirable inteligenee which is a part and portion of himself; that his sagacity is such as at the same time that it gives repose to his master; while it requires great time and trouble to instruct other dogs for the purpose to which they are destined: if we rellect on these faets we shall be confirmed in the opinion that the shepherd'a dog is the true dog of nature, the stock and model of the whole species." $\dagger$

MANAGEMENT OF THE LEICESTER BHEEP.
The Leicester ewes, alhough they do not bring so many lanbs, nor rear them so certainly, nor make them so fat as sleep of a more hardy description do, yet have very much improved in these respects, and actually rear from a hundred and ten to a hundred and twenty lambs from every one hundreds ewes; the ewes that are barren being mostly fit for the butcher, and those that lose their lambs getting fat in much less time than any other breed. Onaccount of this promptitude to fatten, the Leicesters are brought into the maket, and average as much per quarter at one year old, as those of most other breeds do at two and

[^0]three; the farmer also laving the power to stock harder and closer with then than with any others of equal weight, as they are always in good condilion, even when suckling lambs, or hard kept. The ewes will nol fatten their lambs for the butcher; buit this is no eventual loss to the farmer, as lambs of this breed are much better kept on for mution and wool, and it would be a pulilic detriment to slaughter them prematurely.

Sone furmers, however, finding a great and steady demand for hamb as well as for mutton, lave been induced to keep an annual stock of sheep, consisting ouly of ewes and wethers bougit in at Michnelmas, principally of the Cheriot and Anglesey breets. The ewes are immediately put to a leveestersine ran. 'Ihe lambs are fattened and sold in June or July, and the ewes are afterward fed on clover-grass, and soh! in October or November. The Cheviots are good sucklers, and generally make fat lambs, avemging about 1 fibs. the quarter, white from 3 to 4 liss of wool are cut from each.

The wethers are of the same kind, and are bought about May or June, from one to four years old. They are fed on clover or grass, and mossly sold in the autumn, areragiug about $161 b s$. the quarter, and yielding from 3! to $4!$ los. of wool. Sometimes they are kept on until the following spring, and fed upon turnips; but being of a restless disposition, they seldom increase more in weight than from 9 to 3 lbs. per quarter from October to March.

The Tecicester cwes are put to the ram at the begiming or midtle of October, and taken from him arain about the second week in Norember. One ram will serve from 60 to 70 ewes: but if lie is kept in a close, and a teaser employed, lie will serve from 30 to 100 . He is muldled at the time that he is put to the ewes, and those which are served are taken from him once a week and numbered. They are then put to another ram that has been backened, in arder to distinguish the ewes that are served again. These are likewise drawn crery weok and marked will a different number. This precaution will save much trouble when they are drawn for lambing, which ought always to be done.

The eves will approach their time of yeaning about the beginning or middle of March; and this heing often an inclement season, and the Leicesters requiring more attention than the hardier kind of sheep, the ewes that are coming to the last week of pregnancy shouid be separated from the oflers accorting to their umbers, and brought neare lome, that they may be put into a yard at niglit, constructed for this purpose, having a good shed in it, and being well protected from the cold wind, They should have a plentiful supply of turnips, ov-cabbage, de. The greatest attention should he paid to them at this time, and the shepherd should be with them as much as his other duties will permit. If it is a peculiarly-valuable flock, the shepherd should
sleep on the premises, for the Lueicenter ewes are more lable fo require assistance when yearing than any other sheep are. The lambs are generally harge, and the ewes rerỳ fat, and so a double difficuity oceurs.

The limbs are kept up for a fow nights, leaving them ont will the mothers in the daytime. They should be castrated syhen about a fortnight old; bat a fine and lry day should be selected, and thry shoudd be kept up for two or three nights aftermad. JThes slould likewise be tailed at the same time. 'flec lambs remain with their mothers unit the begmang or mithle of Jub; ; they are then weaned and turned into good pasture of seeds or grass, with the latter and or' Octoler, when ther are put upon turnips - sometimes the common turnips first, and afterward the Ewedes; but they dio better upon turf, provided it is to be had--a lew turnips being drawn when the weather is severe. The ewes remain on the ordinary pasture, which probably will hear from seven to eight per acre, until within three weeks of their being put to the ram, when they should be changed into gool pasture, which will catse them to flower sooner and more regulaty. The ewes continue on the ofd pastures until the end of Nocember, from the time the rams are taken awny, when they are sometimes hardled upon turnips, the fat sheep having been pemed upon then first, and the ewes following to make clean work.

The lambs are seldom shorn untill the second fear, when the llecee will weigh between 7 and 8 llss., the length of the staple beiner from ten to twelre inches. The ayed ewes yield fron $5!$ to 6 lbs. of wool. The usual time of shearing the store sheep is from the begiming, to the middle or and of Jume; sometimes, however, they are shom in May, and yied from 7 to 9 lbs, of wool. 'The washing usua!ly takes places in the fast week in May; after which the slo ep are sent into clean pastures for a week or fortnight betore they are slorn. Some farmers permit a longer time to elapse in order to allow the yoll to rise into the wool; this makes it weigh heavier, and also worle better in the manufacturng process. The yearling wethers are generally separated from the theives at the time of shearing, and they are put upon grood keep, and most frequently upon seeds. The theives run upon the conmon pasture until the ewes go to beiter keep, previous to bing sent to the ram. The wethers are generally kept on turnips, and sold in the early part of the following spring. On large and well conducted larms hey have a rack in the field, well supplied with coarse strarr, and a trough is fixed under the rack, containing. common or rock salt. The system of folding is ravely adopted where the New Lacester sheep are kept; neither the nature of the sheep nor the size of the farms will often allow it,

No apology is made for the insertion of this simple, intelligible, and complete sys-
tam of long-wontled sheep-hasbandry: it shoull, however, be stated, diat it more accurately deseribes the course persued by the large than the small farner.

## A twenty-pive year old thout

Editors. - Cam ainy onotell how long a trout fish will live. Twenty-five years the past summer, 1 came on the farm where I now ann. Annest the first worl that I did aterer retting in my spring erops, was to drain it bor swamp, the ontiot of wheh lewls into the Cruton RTver. Ihad an old Seotehman to do the ditehingr. One day he bromght up at trout fish about the size of a man's fitte finger, in his whiskey jug, (by the by we used a late on the ferm then, and not since thea.) T put it in the well near the honse, and it is there now, grown to a goodly sizesay about a foot loug, and largo in proportion. In has been fed but very hitle: mee in a while some one throws in a grasshopper or ericket to sue him eateh it. The well is thinty feet deep, and water hard, and setties down nearly to the bottom and then arain rises to nemr the top. Je has been taken ont a few limes to elean the woll, but not the last give years.
Fridiy last I got a grasshoper, the last one I experit to see this lall, and gave it to him. The water is now twenty-fivo feed deep but it harely touched the surfoee before he hat it. If atiy one hats a fisholder han mine I wouk like to know it. F. Hoyr. South Eust, Not. 194, 1855.
And sa should wa also ; and if any one lins any enrions faets of this kind, wo shonk lo mich obligen if he would follow Mr. Horz's example, and commanicate them.-TEDs

## to mare goon maedi).

I am a farmer's wife, and havo been a honseleeper for move than wenty years: raised a lamily of chideren, and the greater part of that time have personally presided over my household aftiirs. I have thereline not much time for publication, but seeing in your excellemt maper several artieles on brema making, and believing I am prety well posted in that department. I will give you and the readers of the Cultivator the bencfit of my experience ; truth will beai twice telling.
In order to have gooal bread, a necessary iugredient is grood yeast. My mode of matking yeast is is follows: To three pints of water, add one handful of hops, boil weth togrecher, strain and put the liguer into ple pot again, then take three large-siyed potatoes, wash, pare and grate them, ind stir into the iiquor while boilins, thom ith one table-spoom filt of salt, one teaspoonful of sugar or molusses, and lhieken with a spoonfult of flour ; pour it ont, and when cool add sufficient yenst to rise it ; when light set it in a cool place for nse. To make bread, paro and cut two quarts of potatoes, beil then in water enongh to mix one gallon of sponge; when well boiled wash and strain through a cullender, stir in thour white hot, when cool enongh, stir in a teampfal of yeast, then set to rise, and the nost moming make up your bread in the usual way ; when it is light, monld into loves and let stiand nutil fit to be pot in the oven
This is my war of making gool lread, and I know of time better.-" Ainn Debby" in Ohis Cultivator,"

## the moral qualities of the nog.

It is truly said of the dog that he possesses
"Minay a good
And uscful quality, amd rirtue ton,
Altachment never to be weaned or changed
By any change of fortune; proof uilke
Against unkindness, absence, and neglect;
Fidelity, that aether bribe nor threat
Can move or warl ; and gratiode, for small
Amid trival favoturs, lasting as the life,
And glistening eyen in the dying eye."

It may here be noticel that, among the inferior animals with large nerves and more medulary substance, there are acuter senses ; hut man, excelling them in the general bulk of his brain, and more particulaty in the cortical portion of it, has far superior powers of mind. These are circumstances that deserve the deepest consideration. In their wild state the brutes have un concern -no idea beyond their food and their reproduction. In their domesticated state, they are doomed to be the servants of man. Their power of mind is sulicient to gualify them lor this service: but were proportionatc intellectual eapacity added to thiswere they made conseious of their strength, and of the objects that cound be eflectrd by it-they would harst their bonds, and man would in his tan be the victim and the shave.

There is an important facuity, termed attention. It is that which distinguishes the promining pupil from him of whom no rood hope could be formed, and the scientifie man from the superficial and ignorant one. The power of keeping the mind steadily bent upon one purpose, is the great secret of indisidual and moral improvement. We see the habit of attention carried in the dog to a very considerable extent. The terier eagerly watching for vemin-the sporting dog standing staunch to his priut, however he may be amoyed by the bhuters of his conpration or the unskiffulness of his master - He foxhoumb, insensible to a thousand scents, and deaf to erery other somd, while he anxiously and persereringly searches out the track of his proy-these are striking illustrations of the power of attention.

Then the impression having been receired, and the mind having been employed in its exammation, it is treasured uf in the storelouse of the mind for future use.

This is the facilty of memory ; and a most importiont one it is. Of the memory of the dog, and the recollection of kindiess receired, there are a thousam stories, from the return of Ulysses to the present day, and we have scen enough of that faithfil animal to believe most of them. An oflicer was abroad with his regiment, during the American war. He had a fine Newfoundhand dog, lis constant companion, whom be left with his limily. After the lapse of several years he returned. His dog mot him at the door, leaped umon his neck, licked his face, and died.

Of the accuracy and retentireness of memory in the dog, as vespects the instructien he has received from his master, we have abundant proof in the pointer and the lound, and it may perhaps be with some of them, as with inen, that the lessons must sometimes be repented, and even impressed on the memory in a way not altogether pleasant.
[We lenew an imported Trish setter, formerly in possession of a gentleman of this city, who on many oecasions, while honting, displayed an extraondinary instinet, even sufficiently remarkable 10 make us believe that he possessed not only the most acute powers of observation, but that he also enjoyed the laculty of "enductive reasoning;" independent of any mechanical training, many of his performances being entircly voluntary, and the result of canses dependent upon accidental circunstances atne : for instanee, when lost from obserration le would noiselessly withdraw from lis point, hant up his master and induce him, by peculiar wigns, to foliow hin: to the spot where he had previously observed the birds.

In his old days "Smoke" was much opposied to hutimg with an indiferent shot, and would leave the fied perfeely disgusled, after a succession of bad shooting ; seeming to argue that he no longer sought ifter gane for annasement, but that he expected his efforts to be repaid by the death of the birts.
'lhe dog was of a morose and liguifed disposition, surly will strangers, and inclined to quarerl with any one who carried a stick or whip in their hands, never forgetting an injury, and growling whenerer any berson who had offended him nate their appatance. He was also particularly irritable and tenacious of his roghts when hunting; shmming all pappos or lreedless togs, and exhiliting a very irascible disposition if superseded in a point ly another dog; and an one occe:sion attacked a young pointer in the field, who, in opposition to all his growling thd show of irong, would persist in crawling before lim, when on a point.-T.]

## hiUUSEELS SPNOUTS.

This variety of Cablange is supposed to have originated from Savoy. It is a celebrated vegetable ia Europe, especintly near Bruxelles and other large towns in Flanders, where, from October to $A$ pril, it is an everyday tish on the table of hoth the rich and the poor. 'Till reently very litule attention has been giren to it in this country.

Culturc.-Sow the seed in April, and transplant in June, or July, in the same manner as Broccoli. The leaves of the plant are similar to Savoy, crowning a slem about two feet high, from which grows ont numerous little cabbages of from one to two inches in diameter. After the sprnuts have been frosted (which is necessary to their perfec(ion) they may be gatherch. Immerse them
in clear water for an hour, and cleanse tliem faom dust and insects ; then looit them quickIy for alout twaty minutes, using plenty of water. When soft, take them up and drain them well. They are then to be put in"a stew-pain with cream, or with a little butter thickened with flour, and seasoned to taste, stireng then thoroughly. Ihbey may be served up to table with tomato sauce, which greatly heightens their havor: or seasoned with pepper end salt, and eatern with any sort of meat. As this vegetable is comparativeIy litile known, 1 have made these observatious with a view of encomraging its culture. Plants for seed should have their tops cut oft, and the little cabbages allowed to shoot, from which the seed is more perfect. It will keep fresh and sound in a dey place three years, but when grown for that object should not be near any other sort of Cabsbage.

## MUSHROON SPAWN.

We copy from the transactions of the Tondon Horticatinal Sonicty, the following approved method of making Nushrom Sinwn:
" In I Ime or duly, take my quantity of fresh horse-droppiags (the ligher fed the better) mixed with shore litter, one-hind of conv's dums. and a grool portion of mould, of a loany nature: cemen them wotl wether, atud mash the whole into a compost. Supread it on the lloor of ant open shed. to remain till it beromes firm enongh to be lormed into square llat brisks ; which dones. set thum on odge, and liequently urn then till hall dry ; Wheri with a dibibie make two or thee holes ia each brick, and in cach hole insere a piese of good ond sprawn, about the size of a watwht," or the spawa which consist of a line white threads that may be found where musiroons are prowing in pastures. "Ihte bricks should then be left bitl they are dry. This being compheted level the simface of a piece of groma, under corer, three feet wide, and of sullicient lenpth to reccive the haicks; on which lay a bothom of dry horeeHung, sis inches thick; then form a pile, by placiug the bricks in rows oue umon anather, with the spawn sile uppronost, till the pile is three feet high: next cover it with a portion of warne horse dugs, sulficient in quantity to diffuse a gentle grow of heat through the whole. When the spawn has spreail itself through every part of the brick, the process is conded, and the bricls may then be had up in a dry place for use." Musluoon Spawn, made according to this direction, will preserve its regreative power many years, if well dried before it is haid up; bit if moist, it will grow and exhaust itself.

Beans roin Suebp. Bean straw is valuable as fool for sheep and when properly enred they eat it with avility, In a chemical amalysis of beans it is found they alound with a greater quantily of the elements of wool than any other graiu or vegetable; to make slieep
produce heavy feeces, they are therefore partientarly desimble as lool, and such is their nalual fondiness for then that they will eat them with avidity whinle or ground, even in a damaged state. To our store flocks, during tho winter sensons, we senerally gave a pint of beans per head, per day, and when we had not these we fed with peas, oans and potatoos. Corn is good for futlening shoep, but not so yalhable as beans, peas, nats, and most other kinds of graili, for the productions of wool.

Agricullurist.
An Ageb Fron,--James Crabtree, pitsinker to Messes. Ackroyd, of Burkinshaw Dotom, in sinking at pit at Morley, near Leeds, last Monday, fund a live frow in the centre of a lare conl, soventy-eight yards bolow the surface, considerably below the Morley tumel, to whinh it is close adjoinines. The frog is still rery lively. When found it was rery dark in colour, but on Wednesday becoming like the common every-dity specics. The oyes are very bright, and surrounded with a grold rites, It has fourclaws on its fore feet, andife (welb-looted) on the hinder feet. Its mouth is closed or firmly shat, but it has two vents, apparently mostrils, on the fop of ils nose. The sem of coal fron which it was disinterred was saturited with water, and probably from thes circumstance, combined with close confinement, it has been enabled to sustain its half-torpidifie throngh comotless agres.-LLeeds Mercary.

## CORRESPONDENCE.

## To the Editor of the Farmers Journal.

Sm.- There is a very considerable agitation about the best method to get rid of the Tull hars in the Ishand of Montreal, especially in some localties where the lurden fills more ompressively and mequally than it oundt to ato. 'The following thoughts, I woud profer puting before the problic throunh the mediun of the Framer's Jorirnal.

Farmers probably laving more time, will undoubtedly give it more consideration, than the mereantile chass, who run so fast after fortunc.

The items of expenditure by the Road Trust, I shall range under three heads:

1si. Tuterest on capital borrowed at $S$ per cent of ExO. 750 , amonuts to four thousumd and sixty pounds, $\mathbf{X} 4060$.

Ond. Ammal charge for ten Joll Bars \& 100 ench, say one thousand pounds. It may be double this sum, and could easily be shewn, has sometimes cost double that amount.

3nt. Anmal rupairs, this I am not preprated to speak upon, but it may be inferred from what follows. Ihe gross amount of the revenve I assume as not exceeding six thousand pounds.

$$
\text { Sny.. . . . . . . . . . . . . . . . } 1000
$$

Now we liave to pay for Thterest, 4060 Do io for 'Toll Bars,.... 1000
leaving a balance to cover repars, de., of ifteen lumdred pounds.

I have unt docments to quote from to sliew exaclly how the matter stands, it is not necessary for my parpose as I am reasoning from a principle to atain a certain emo.

Gne thine must not be lost sight of, that in Lover Canada rood uaking is a buden on the land, it is, therefore, a gross injustice to farmers living out of the island to pray for makinge roads on the Islanid of Montreal.

My proposal is to assess the whole Island of Montreal, incluling the city, so as to raise this $£ 6000$-in as equal a mamer as possille. The debt of $x 50750$ being secured upon the whole real extate of the island the security would be first rate, not eren excepting the goverment; the money could then be had at 6 per cent., which would make a saving of one thousand and fifieen pomuls.

## 21015

Add to this the saving from

$$
\text { Toll Bars.. . . . . . . . ..... } 1000
$$

## 2015

you bave then a saving of one third of the amual expens: above quoted.

I would divale the assessment in this manmer: ont of the revences of the Corporation of Muntreal 1 clain one half, say E3000 per ammun. If there is any truth in the maxim of political exonomists, that the consumer pays the tases, Mentreal would get cheaply of at this rate. I think it demonstratable that the city pays at present three-fourths.

The whote istand has been valued for assessiment purposes, and local munie ipalities cstablished, so that the assessment could be levied casily.

1 do not propose to inturfere with the managenent of the lioad Trust except in the above manner. The roads are gond and arobably well managen. G.

## To the Editor of the Farmer's Journal. Rosebrook Tarm, <br> Threc Rivers, 10th Jan., 1s56.

Dear Sir.-Woully you oblige by informing one of your sulbecribers what would be the cheapest and best mode of top-dressing is neer laid down hay-field. The soil it is growing on is very light, and it was had down a year ngo, hat, owing to the excessive dry season, it came up very thin, the clover only in pateles, but the tilloolyy eren, but rery thin. 1 concluded in trying an expriment by allowing tine timoiby to ripen and cast its sead, which it did thoronghly and to my satisfaction The fall rains covered my field completely with a thick coat of timolhy as it came up, and was about from one to two inches long when the frost came. The field is about it acres, and as topdressing with manure in the spring would be

[^1]too heavy for the young timothy, how would plaster or gy pisum to? also have a swamp cloce at himit, where T could get muck, also chay, but the cost of hauling in the spring on so large a fied would eme more expensive than the plaster. Will you let me know how plaster would do, and how much to the aere, how to apply it, and where I could get it the best and cleajpest, and what the cost would be a bushel or barel. Do you dink chay would do better if put on early in the sjming?

Tiespecifully yours.

## A Subscriber.

Note by phe Emror.-For light land, such as our comespondent. describes, the phaster would be a very proper top-dressing. It :hould be laid on just aftor the suow disappears, in the proportion of eight or tea hamels to the fied of fourtern acres. Plester has been sold in the eity for 4 s $6 d$ to 5 s a harrel, but it may be purchased at the mills from ${ }^{5} 7$ to $\frac{15}{9} 9$ per ton.

To the Editor of the Furmer's Journal.
Sth.-I was much pleased in looking over the hast mumber of your lournal, to see hat Elae Board of Agriculture liad adopted sereral new regulations for the l'rowincial Exhinition, which is to take phace at Three Hivers ia Sepromber nest. Mr. Ellitor allow me to suggest a few additional rules, which I thitat would be of infinite adrantage to the comntry at large. In the class for Tield Proluctions, all persons to whom prizes are awarded should be bound, before receiving the amount awarded to them, to give a statement in wriling of their mode of cul1imation, nature of the snil, quantity grown per acre, and reply to any other questions that might he required; all of whiuh uight be published in the Farmer's. Tourzat, and circulateal throughout the whate Province. Tn regard to the haphement Departmeat, 1 consitier that the rule which has been adoptat hy the "Elighland int Agricultural Society of Scotlimis" that none bat the maker or inventor be allowed to compete, should be introduced.
I slall make a feiv remarks in regard to our Combty Sncietics, sererat of whom have done a vast amont of good in their different localitics. I may mention as an example for imitation the County of Montreal. The plan they have adopted of amnally giving prizes for well manared farms and srowing erops cannot be surpassed in any country. I cannol see the reason why the above plan is not carried out by every County Society receiving grants of public money. I shall explain brieliy a few of the abuses under the present system of giving prizes for such small quantities of grain as a bushel or two bushels at most. l'revious to a late Show, a farmer on the St. Toy Road, whose stock and implements are of the very worst description, sowed his garden, not
more than hald an aere, with three different valientes of grain, for the sole purpose of catehing a few pizes- and what lately took place at an Agricultural Show near Quebes, where wheat ucas mixed with shot, and persons whenhing their grain a second time, and many other mal practices which 100 phanly shows the foliy of such systems. So fong as the pultie money is distributed in this manner, it ouly lemeds to opien up a road for all mamer of limuls, and the honest industrious hardworking fanmer has no chance o competing. I have witnessed these paltry shows for these last twenty years, and the prizes in most cases lor Fied Produtions have heen zarricd of by the worst farmess. The oull true and legitimate way to improve our agriculture is for our Comily Societies to mire pizes for well managed farms, growing erops, good draining, gool slock of farming implements, well managed dairies, Eve. Sve. I thimk also that the incressed circulation of the barmer's Jonrnal in the Commy of Qiebee would be of melela adramage. Its present limited cireulation too phanly shows the smath interest which our farmers take in what is so essential in their interests, whieh is puhisined at the low mate of 2 a 6 per anmon, and cach number is well filled with boll original and selested artieles.

## Yous truly.

Mafthen Davidon.
St. Foy Road,
Connty of Quehec.

MONTREAL MARKET PRICES.
Retes at which produres is purchasel from the lirmers.

1et Fedraary, 1856.
Hay from 10 to $\$ 13$ per 100 bundles.
Straw from 3 to 84.
do.
Mresh Butter, per lb., from is 3 l to is 6 d . Sall Thutter, do fromis is is 0fd. Comary Cheese, from Gd to Sd.
IVheat, 6s 6d to 7 s .
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liye, is 6d to ${ }^{\circ} \mathrm{s}$.
Oats, from is Sil to is 0 gal:
Yellow Indian Corn, fiom 5s 6d to 6 s.
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Eest. 2d do. 3d do.
s. d. s. d. s. d.

Wheat, White, Bald or Ycllow,
1 minot, snmple of 4 minots, $200150 \quad 00$
Do Red, 1 minot, sample of 4 minols,
$150120: 00$
Barley, 1 minot, sample of 6
minols.
150126100
Onts, Bhack, 1 minot, sample of
6 aimats,
Du White, 1 minot, sample of
6 minots, - . .
luckwhent, I minot, sample of 3 miads,

200,76
sumple or min 12610000
Fre, mutut, sumple or 3 minots, 12610000
Fich l'eas, 1 minot, sumple of ? minots,
$150 \quad 126 \quad 100$
limothy ced, $\frac{1}{2}$ minol, 15012000




Fellow Turnips. 1 barrel, sum.

pie of 6 birrcls,
olatecs, Pinli-eye or Blac, 1
$\begin{array}{lllll}\text { Polatces, Piallecye or Blac, } 1 \\ \text { barrel, sample of } 6 \text { barrels, } & 150 & 126 & 100\end{array}$
Potatoes, odher ditads, 1 barrel,
anuple of 6 butrcis, $\quad 126100.76$

Flax or Hemp, 3 jbs or more, 12 6; 100.76
Do Threud, 2 liss or
anore, Cordage or tine of Han
or llemp, io fatloms or :urre, 126 100 76
Homespun Cloth, all wool, 10
yards or more,
$\begin{array}{llll}15 & 0 & 12 & 6 \\ 10 & 0\end{array}$
Homespuan Clolh, weol and cot-
tom, (1) yards or more, $126100 \quad 76$
Homespual F annel, atl wool,
10 yards, or more,
Iomespun Flatucl, wool and
Hmespun llatud, wool and
conton, 10 yards ne more, $100 \quad 70$
50
Homespun stockings or Socks,
A pairs, Mentens or Gloves, 4
iomesplul
pairs,
$5040 \quad 30$

Dairy Producc.
Batter, 30 les or more, $150 \quad 126100$
Chatse, one or more, 1261007600

## RULES JN ADDITION TO TTIOSE ALIREADY IN FORCES.

1st. No premium allowed unless the artiele be cons sidered prize worthy.
2nd. No artlele of Grain or Secd allowed to compete if hand-pickel, kiln or fire dried, or having undergone any ehemical process.
3td. All arlicles to be the produce of the last year.
By Order of the Committec.
L. WINTER,

Prest. Agl. S., No. 1, Co. Gaspe.
Percé, 8th January, 18 ธ̄6.
O. T. CONNICK,

Secretary-Treasurer.


[^0]:    - Jessc's Gleanings, vol. i, p. 93.
    $\dagger$ Jesse's Gleamings, wol. i. p. 93.

[^1]:    [" Shonld not this be 4940? - Farmer's
    Journol.] Journal.]

