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THE BRITISH AMERICAN

ULIVATOR.

"Agriculture not only gives riches to a nation, but the only y righted can call her own."-Dr. Johnson.

Vol. 1.

TORONTO, DECEMBER, 1842.

No. 12.

PROSPECTUS IOR SECOND VOLUME THE BRITISH AMERICAN CULTIVATOR.

> WM. EVANS, EDITOR. W. G. EDMUNDSON. PUBLISHER AND PROPRIETOR.

This is the twelfth monthly number that has been published of this Periodical since its commencement in January last, and it is for the Subscribers to judge how far we have fulfilled our engagements to them. It has been certainly our desire to make THE CLLTIVATOR useful and interesting, but it will be for others to show, by their future support and encouragement, if we have been successful in our endeavours. We offer the columns of The Cultivator to the communications of any who may desire to instruct or enlighten their brother-farmers, on the science or practice of agriculture, or its sister arts, or any subject connected with their improvement or prosperity.

In the future numbers of this work, more at-Herriculture and Mechanism. Each number put money in our purse, both reader's and ed. will contain a Gardeners and Michanics depart. Gardeners' CALTNDAR will be prepared monthly, in New-York. adapted to the Canadian chinate, seasons, and preductions.

tivator to farmers and other classes to whom it gaged in the business. We take this opportunity may be useful in British America, we again promise that we shall do all in our power to submit interest which many of the commercial and politithe best information we can collect on the sci. I cal newspapers have coinced in our success, and once and practice of husbandry, and advocate in the best manner we are capable, the interests of agriculture. This publication is a proper medium for communicating the wants and wishes of Cana. dian farmers, and we respectfully solicit for it their unanimous support.

From the general testimony in favour of the manner in which this paper has been conducted from the public press, and the most experienced farmers throughout the Province, there is every reason to believe that it will prove universally acceptable, and remunerate its readers tenfold for their subscription.

CONDITIONS.

Each number will contain sixteen rages, and the work will be beautifully embellished with ovis, illustrating the different subjects on which it treats-making a volume of 192 large pages yearly, for the low price of One Bollar, free of postage, payable invertably in advance.

TERMS TO AGENTS.

Six copies will be sent for five dollars, if re above. Seventy copies for fifty doll its if sent in remittances of not less than ten dollers at one to the Agent ord ung the work, and the others to the Subscribers.

N. B. All Orders and Communications to be addressed to the Publisher W. G. EDMUNDSON. Toronto, Post Paid.

SUPPORT WHICH SHOULD BE GIVEN TO AGRICULTURAL PAPERS.

THERE are as nearly as may be calculated, no. to exceed 80,000 ceptes of agricultural papers circulated in the United States In our population of 17.090,000 we ought to have at least 200,000 of subscribers to some purely agricultural periodical. Let each one of our editorial brethren of other branches of the pre-s, procure for us as many subscribers as possible, from one to twenty, or a hund ed will be more satisfactory, deduct the commission allowed, and remit us the money through the post office. By this simple tention will be paid to the important subjects of process he will do the state some service, and tor's, but the Luon's share will go the farmer's. ment; and in the spring and Summer months a So says The American Agriculturist published

In Canada a much css number of agricultural papers are taken than in the United States, in In presenting the SECOND VOLUME of The Cul. | proportion to the population and numbers enof tendering our sincere thanks for the patriotic as we have authorized publishers of papers to act as Agents, we trust many subscribers will be ordered through their agency. We know of one publisher of a Canadian newspaper, who procured seventy five subscribers for The Genesee Farmer during the last year, and another fity, and another thirty; and we flatter ourselves that our work will merit a still greater support. If the same exertion be used for a home production as was for a foreign. (whose business it was to advocate measures which has already produced that which is diametrically opposed to our welfare, we mean a high American turiff), that the same success may be anticipated for us, and also crowned with a different result.

> At the Witham Agricultural Meeting, England. a gentleman stated he had raised, this year, 373 tons of carrots on the acre of I and. The land had been dug with a spade and well prepared. This produce would be equal to double the weight of turning for Leding caule.

PAGES PORTABLE SAWING MACHINE.

mitted at one time, free of postage. Thirteen Is our first number we made mention of this copies for ten dollars if remitted at one time as ingenious and nacful machine, but were not in possession of all the facts we required to make & satisfact my report. We notice in a November time as above; and one in nated and fitty copies | number of The American Farmer, published at for one hundred dollars if remitted as above. Biltimore, that a committee of four gentlement The extra copies in all cases will be addressed were appointed at a fair recently held at Gowanston to superintend its operation, who were to report its trial for the benefit of the Society.

The following is an extract from the report:--"The saw mill was set in motion by a horse" power of Mr. Pages' own construction, and with' four horses at a moderate walk, sawed 342 feet of plank in 65 minutes. The horses did not appear to labour as much as at an ordinary thrash. ing machine. 'The great simplicity and strength' of the saw mill are in the estimation of the undersigned, even a greater recommendation than the speed with which it performed its work."

Mr. Page afterwards called the attention of the committee to his Portable Grist Mill, moved by the same power, and from the facility with which it performed its work, and the quantity and quality of meal ground, they think it will be a most valuable acquisition to the farmer. We conceive that a portable saw mill would be of the utmost importance to the contractors of plank roads, and in sections of the country where water privilege is scarce, and under that conviction have written to Mr. Page for further information on the subject, and have offered our services as Agent to introduce them in this Prov vince. As soon as this information comes to hand we will take pleasure in laying it beforeour roaders.

THE CREDIT SYSTEM.

We remarked on a former occasion that we have deviated in many instances from cash payments being made in advance, in order thatour journalmight be introduced in every section of the Province; there are however difficulties connected with the plan which make the conditions laid down in our terms quite indispensable. Wehave at this present moment a large list of un paid subsenberk, and hope all such will lose no. time in making their remittances through our Agents.

TERMS TO AGENTS.

The change of our Terms to Agents we trust will prove sausfactory. We have made the change in order that they may use personal as well as patrious exertions in extending the circulation of our journal.

THE BRITISH

AMERICAN CULTIVATOR.



--- THE CULTIVATOR.

"Agriculture is the great art which every government ought to protect, every proprietor of lands to practice, and every luquiter into nature improve."—Dr. Johnson

Toronto, December, 1842.

As we anticipated, the new Tariff of Sir Robert Peel, has already brought much foreign live cattle into the English markets from almost every state in Europe, and caused a fall in the price of cattle in the British Isles of about twenty. five per cent. This fall will have a serious influence on the interests of British agriculture, and it is not impossible but the depreciation in the value of cattle may be greater still, when the nations of Europe find that they have a certain market for cattle, that will give them higher prices than they were able to obtain heretofore. It will encourage them to raise and feed cattle while a remunerating price can be had for them. The new Tariff admits foreign cattle on the payment of a duty, that will not, on an average, amount to much over ten per com. on their value, and this low duty will not afford sufficient encourage. ment to British American farmers, to raise beef and pork for the English market. Our climate is more severe than that of most of the countries of Europe, and our situation much more remote from the English markets. The tariff allows us some advantage over foreigners, but not to a sufficient extent. At no distant period England will discover, that to give decided encouragement to her own colonies, will be her wisest policy .-Foreign nations will always be governed in their regulations of trade by self-interest, and as they generally attribute the prosperity and riches of England to her manufacturing industry, they will be anxious to encourage their own manufactures and thus increase the home customers for their raw produce. England possesses capital, machinory, and skill to manufacture for all the world. if she could only induce them to be her customers, but that would be impossible. Jealousy and pecaliar circumstances will always prevent this, and therefore, there must of necessity, he al mit to the extent of manufactures in Brit. in. The colonies of Britain will, if tostered and encouraged judiciously, be her best and surest customers; and as she has colonies in every region of the earth, they can also supply her, in a few years, with all she may require of foreign produce. If a free trade system could be established all over the world between all nations, we should not ob. ject to it; but as that probably never will be the case, we object to free trade in agricultural produce, unless it equally applies to all other productions.

The present prospects in Britain, may not hold out so much encouragement to us to raise and feed cattle as we would wish, but matters may turn out better than we anticipate, and it will therefore be prudent, by all means, to augment our stock of cattle, in order that we may avail ourselves of any favourable opportunity that may occur, to sell salted meat in the English market. Cattle areas likely to pay well as any other produced to produce his happiness even in this life for us, and that a sense of what was right at woo our slove of any favourable opportunity that may occur, to sell salted meat in the English market. Cattle areas likely to pay well as any other produced by our plan (and it would amply compensate for that the good that would be produced by our plan (and it was only with this view that laws were made fromly persuaded however, that the general woon and that a sense of what was right at woon of any favourable opportunity that may occur, to sell salted meat in the English market. Cattle areas likely to pay well as any other produced by our plan (and it was only with this view that laws were made for us, and that a sense of what was right at woon of the use of the trouble, we should not take upon of Agricultural Societies, if not determined to do duce, we can, raise for sale, and a farm stocked all in our power to promote the objects for which which He has given us for our own happing with cattle does not require so large an expendition of the human family; and to reward the cattle, does not require so large an expendition of the human family; and to reward the cattle and the plan we suggest would any turn out the general for us, and that a sense of what was right at woon by with this view that laws were made from us, and that a sense of what was right at woon by with this view that laws only with the government of the was only with this view that laws only our plan (and it was only with this

cattle, sheep, such a-stock c f each as would be most suitable or our china c and means of feeding. That east, of any species, that will yield the farmer he largest returns for the capital employed and e food consut ned, will be the best and most vofitable to ke ep. It is profit and not show, It should go been the farmer in selecting breeds tunimals and in improving breeds of animals ly maturity is a great perfection—and short-ged animals generally possess this quality, and are easy fattened. Moderate sized cattle, we have always thought the most suitable and profitable in Canada. Whatever may be the size, a good form is, however, actually necessary, to insure a profitable stock. We must also improve o roastures and keep for stock. If we had the very best breeds of cattle that are to be found, they would soon degenerate and become worth. less, unless well kept both in summer and winter. With good pastures and winter keep, inferior breeds of cattle may be improved, but without these most essential requisites, it is in vain to introduce improved breeds with any expectation of profit, or of keeping the breeds from rapidly degenerating. Let us improve the cultivation of our farms, and our meadows, and pastures, and the improvement of our cattle and sheep will be certain to follow. It should be the memorpal object with all our Agricultural Societies, to encourage the improvement of the soil first-to introduce the best models of useful agricultural implements-and to circulate practical justruction amongst the agricultural classes. If Agricultural Societies were to do all this, they would effect more profitable improvement in one year, than they can in twenty by only giving premiums upon stock. Large sized improved stock would be starved on nine-tenths of the farms of Canada East, in their present state of cultivation and production. An improved cultivation of the soil -more perfect dramage-and the careful extirpation of huriful weeds-are the most desirable and necessary improvement for us to introduce. Those who generally obtain premiums on stock, are farmers who require no encouragement to induce them to practice the best system of agriculture. Indeed it is only such farmers who can have any pretensions to be successful competitors for cattle at cattle shows, and all others feel themselves virtually excluded. We beg to submit some of the Rules and General Conditions that were established by the County of Montreal Agricultural Society. They may offer some useful suggestions to other societies. We would strongly recommend premiums for well managed' farms, and we would also recommend the appointment of parish committees for superintending the progress of improvement, and as the means of communication between county or district societies, and every parish and section of the Province. If we are to derive any general benefit from Agricultural Societies, and the expenditure by them of public funds, we should adopt the most likely means to produce benefit. It may be said that the plan we suggest would give too much trouble to county societies. We are firmly persuaded however, that the general good that would be produced by our plan (and itwas our own originally). would amply compensate for the trouble, We should not take upon us to act in the capacity of managing commuces. of Agricultural Societies, if not determined to do all in our power to promote the objects for which such societies are instituted, and obtain public money to expend. If such societies are not use-

and swine judiciously, and have a can produce the greatest amount of benefit to can means of feeding. That ceies, that will yield the tarmer ris for the capital employed and ned, will be the best and most ep. It is profit and not show, emitte farmer in selecting breeds in improving breeds of animals is a great perfection—and short generally possess this quality, and ned. Moderate sized cattle, we combit the most suitable and profit.

[The Rules and General Conditions of the County of Montreal Agricultural Society, referred to in the foregoing article, is unavoidably crowded out until our next).

We have arrived at the last month of the year, and it may be profitable for us to reflect upon the various occurrences that have taken place during that period. Doubtless, to many, the year that is now nearly expired, has produced both joys and sorrows in a greater or less degree. For the occurrences of a pleasing nature we should be greatful, and it is equally our duty to submit with patience and resignation to afflictions, which, we may be assured, were brought upon us for our good. If we have proper ideas of the beneficence of our Creator, we must be satisfied that He never inflicts suffering upon His creatures unnecessarily. All the dispensations of His Providence, must be for some wise and good purpose. The thoughts of our Creator are not man's thoughts. The Ruler of the universe is so infinitely superior to any idea that man can form of Him, that we never can rightly comprehend His dispensations towards us, while in this state of existence. It is only when we "shuffeted off this mortal coil," and become pure disembodied spirits, that we shall be able to comprohend the Deity, and His wise and good government of the universe. While we are in the flesh, theréfore, we should submit with perfect resignation and full confidence, that all the dispensations of God towards us are wise, just, and good .-We should make a distinction between the of flictions brought upon us by our own direct acts, and those that appear Providential. The first can be traced directly to our own conduct, and are the results of our own acts, and it would be unjust to consider them as the dispensations of Providence. Afflictions that result directly from our own conduct, we fear, are the most numerous and severe that humanity are subject to-in this life. Indeed they are the punishments that haturally follow our own transgressions. It is well for us that it is thus, because it may produce our repentance and reformation, before death-removes us from this state, of probation. The more we reflect upon the laws and government of God, we shall more clearly perceive that all His laws, for the government of man, were galculated to produce his happiness even in this life. It was only with this view that laws were made for us, and that a sense of what was right and-wrong was stamped upon our own minds, to be a constant and faithful monitor to us. Any act of ours in this life cannot benefit our Creator,, but we owe implicit obedience to His laws, which He has given us for our own happiness. and that of the human family; and to reward our obedience, Ills bounty has promised us cierAGRICULTURAL REPORT FOR CANADA EAST.

\$ " 52727

Since our last Report, the weather has continue i open and lavourable for agricultural operations. Up to this time we had coarcely any frost, and none to stop ploughing for an hour. Indeed we had some days in the latter end of Octol er and beginning of November, that were unusually fine for the season of the year. Up to the 18 hof this month, the ground was free from snow in the District of Montreal, and generally throughout Canada Enst. The cattle had abundant pasture in'the fields, and in consequence of the fineness of the weather they did not require to be hot sed. The open season has allowed ploughing to procoed without interruption, though in some sections of the country, where the soil was strong elay, farmers complained that it was difficult to plough from being too dry. From our own observations and from report, plaughing has been retarded in consequence of the depressed state of agriculture, and the low price of produce. Farmers were unable to employ sufficient labour to do the fall work, and hence were prevented from keeping the plough constantly in operation, It might be advantageous that less land should be ploughed than usual, but we fear that if not ploughed now it will be in spring, and the same quantity of land still kept in arable culture. Thère cannot exist a doubt that it would be profitable for its to lessen the quantity of our tillage and cultivate in a better manner what we did keep in tillage. With a judicious system of cultivation, perfect drainage, and careful weeding of crops, a larger produce might be raised from halfsche quantity of land we have now in tillage, than we obtain at present from the whole, and we might allow the remaining half to repose in pasfure, and recover its fertility. It is most extraordinary that farmers will persevere in tilling a large quantity of land, from which they scarcely obtain sufficient returns to pay for the labour In bringing new, and in some instances, inferior land into cultivation, profidess returns are often obtained by good farmers; but this is a necessary consequence until lands are improved, and can be properly cultivated. There is no excuse, however, for raising scanty and weedy crops on land of good quality, that is cleared and long in orluvation. We wish we could persuade far mers who have strong soils to adopt summer. fallowing, and try what improvement may be produced by it. We do not know any means that would be more in the power of every farmer, to effect the certain improvement of his land than by fallowing, and perhaps there is not in Canada East, one acre summer-fallowed, of every thourand acres in tillage. This is passing strange; and must'be a convincing proof that the science and practice of agriculture, is very imperfectly understood by our farmers. We will we could nameleven a few individuals, amongst the handreda of thousands of our population, who had adopted some means to encourage the introduction fif'd better aid more profitable system of ngricillure. Seigniors and Censitaires-Patriots and Conservatives-have alike neglected to introduce any regular and general system for the amelibration of agriculture in Canada East .-Had agriculture been in the most flourishing condition of improvement and prospority, it could length, is omitte

not have been more entirely left to itself. The that is the more surprising, when we know that and Meal, has been assented and become the produce of egriculture is the chief resource the law of the land; the requirements of which are very important to be understood-and dependence both of Sciences and Constaires. and dependence both of Seign.ors and Constaires During the last few days, some of our,
—Patriots and Conservatives. We may be con- friends have unknowingly violated this last demned for taking these liberties, but we are in-rand suffered its penalty in the public mardifferent about what may be thought of us for ket, which appeared to us very vexatious.

When new Acts of such importance come. advocating, in the strongest terms, the interests into operation, some plan should be adopted of agriculture. Any individual who thinks he of agriculture. Any individual who thinks he to apprise the public of their requirements, can show cause, why agricultural improvement. The following Sections will be sufficient to should not be encouraged or promoted, is at lib. inform the interested parties on the subject: erty to do so.

We have already reported, as accurately as was in our power, the produce of this year's crops, and the state they were secured in. We have nothing to add on that subject now. Our future anxioty will be-how we can dispose of our product, whether to advantage or otherwise. We regret to say, we do not at present, annei pate remungrating, prices for almost any produce we have to sell. The lowness of the prices, is a convincing proof of the capabilities of the country to yield large returns of beef, park, mutton, wool, cheese, butter, and other articles, if the industry of the people was properly directed, protected, and encouraged.

Hav would not be selling for 15s. to 20 -, the hundred buildles of 1,600 lbs., oats for 1s. the minut, and other grain in proportion, if the country was not capable of producing these articles in abundance l'affid'il it is, butchers' meat, cheese, butter, and not many be manufactured from hay, grain, and roots, We import what we might produce, and have our own producers to languish in poverty. If this be true patriotism or sound policy, we confess we do not understand either one or the other. It is hardly possible to form an accurate opinion, at present, as to the expediency of stail feeding cattle this winter, with any prospect of profit or even remuneration. Produce is low, and likely to continue so, but it is equally low in the neighbouring States: and in spring, they may send here their stall-fed cattle and sheep, and reduce our market pieces extremely low, even lower than in their own country, because if cattle are once brought here they must be sold, and they may be brought here to a much greater extent than would be necessary to meet the demand. Hence it is, that there must always be extreme fluctuation in the rate of prices, in all markets that are open to foreign supply. This we look upon as one of the greatest evils of our present system of free trade. What would our merchants think, when they imported goods from Britain, if they were met in the Mentreal market with foreign goods of the same description, and to unlimited extent, imported free of duty? If they world not complain loudly, and have cause to do so, we do not understand their character. It will never pay to fatten-cattle made as wearly straight as may be, and the in winter, for exporting their beef, in a salted staves of such barrels shall be of the length of state, to England. Stall-fed cartle must be consumed here as fresh-heef. It is only grass fed from eror to exce, with leads of the same; the cattle that will pay, experted in sidied beef. We I diameter of the heads of the harrels shall be from hope every exertion will be made to establish a sixtuen and a half inches to seventeen inches, trade to England, in salied beef and pork.

Cote St. Paul, 21st November, 1842.

EDUCATION.—The brucle on Education, referred to in the Index, page 181, owing to its

An Act to regulate the Inspection of Flour

Sec. 10. "And be it enacted. That ather said Inspectors and Assistant Inspectors so to be nominated and appointed, are several'y hereby authorized and required to examine and inspect each and every barrel and half barrel of flour and meal, on application being made for that purpose by the proprietor or possessor thereof, and to aycertain the respective qualities and conditions thereof, by boring the head of each barrel or half barrel and probing the contents to the whole depth of the cask, by an instrument not exceeding five-eightlis of an inch in diameter within the gauge or bore of such instrument for that purpose, and after inspecting such flour or meal, the said Inspectors or Assistant Inspectors respectively, shall plug or cause to be plugged the hole bored in each barrel or half barrel for inspection: Provided always, that such inpretion may be made either at the store, shop, or warehouse of such Inspector, which he is hereby required to keep in a convenient situation for that purpose, or at some store within the limits of the place for whichthe Inspectors shall be appointed respectively, at the option of the proprietor or possessor of such flour or meal.

Sec. 22. "And be it enacted, That it shall not hereafter be lawful within this Province to pac's il me in barrels for sale of any other than the following words, namely : half barrels containing ninety-eight pounds net, or barrels containing one hundred and ninety-six pounds net, avoirdupois weight, under the penalty of two shillings for each and every barrel or half barrel offered for sale or inspection or exported, and with rogard to which the requirements of this section; have not been complied with.

SEC. 23. "And be it enacted, That from and, after the passing of this Act, each and every manufacturer and packer of flour and meal in this Province, shall provide himself with iron or metal . brands or other instruments or materials by which he shall brind, paint or mark, or cause to be branded, painted, or marked the initials of his christian name, and his sirname at full length; and the place of packing, the quality and weightof the flour or meal therein contained, and the tare of the cask on one end of each, and every barrel or half barrel of flour or meal packed for: eale in a plain and distinguishable manner bofore delivery thereof, under the penalty of two shil-lings for each and every barrel or half barrel of flour or meal packed in this Province, and so do ivered or offered for sale, inspection, or exportation with such brands or marks.

SEC. 24. "And be it enacted, That all flour to be hereafter packed in this Province for sale, shill be packed in good and strong barrels of half harrels of seasoned oak or ash umber, and twenty seven inches from cree to cree, and offe half barrels of the length of twenty-two inches and of half barrels from thirteen and a half to foweren faches, and such barrels and half harre rela shall be well sensoned and bound with at least ten woeden hoops, of which three shall be or each end, with a lining hoop within the chimer, the whole well secured by noils, under the penal ty of two shillings for each and every cask offersed for sale, or exported, which shallings be one? of the foregoing description of barrels or half barrels."

NORTHALLERTON AGRICULTURAL SOCIETY.

We have made the following selections from the speeches delivered at the dinner of the Northallerton Agricultural Society, Eng-Jand, which took place on the 31st of Auges. last at Northallerton. The chairman W. B. Wrightson, Esqr., M. P., said :-

"The pursuit in which they were engag-"d was a very ancient one, and it was not only ancient but it was a most pure pursuit it was a most useful, most responsible, and most important pursuit; it was a pursuit without which all other classes and all other businesses could neither subsist nor be carried on. (Applause). And, therefore. in point of fact, it was the grand key-stone of the whole arch of society."

Wm. Torr, Esqr., said: - "He should like to see science brought to bear stronger on agriculture. In many instances he was aware that where science had been produced practice had been given up; but this was no foundation for opposition to the introduction of science, as the result arose from misapplication, science in those cases being founded on practice, instead of practice being founded on science. (Applause). Science, at the same time, was too often taken from books, in which authors were found to differ, and as in the case he had just stated, the effect on application of science was often taken without looking at the cause. If, instead of confining themselves to the effect, they would look more to the cause why such and such things were, he felt sure more beneficial results would accrue to all societies like the present."

The Vice-President addressed the meeting at considerable length. The following is a-part of his speech :-

"In their hands was deposited a very high, a very serious and sacred duty—they held the responsibility of producing food for the happiness and comfort of their fellowcreatures-they had it in their power to increase or diminish the necessaries of life, and by their carelessness, stupidity, or recklessness, how serious a result might ensue (Applause). He said they had serious duties to perform, and he trusted that when any of them took up the science of agriculture, that they would not do it for mere employment—not to satisfy a mere whim or pleasure; but he hoped they would look at it as having the means in their power of doing as he had described; and if the did not pay that attention to it which they or ght, the felt that they would be guilty of a preat dereliction of duty to their fellow-creatures (Applause). Mr. Mauleverer proceeded to dwell upon the expense of getting in the crops, and to show the great advantage to be derived from mowing the crops instead of reaping them by the sickle, in support of which he quoted Lincolnshire, where the harvest is now almost entirely got in with the scythe instead of the sickle. The ad-vantages were there found to be less waste, less expense (the wages being at the rate of from 6s. to 7s. an acre), a great increase of straw, which, of course, produces a great increase of manure; and thus from year to year the land is considerably improved.

(Applause). Mr. Mauleverer then directed the attention of the meeting to Captain Barclay's tour in America, which, in speaking on the subject of agriculture, presents two extremes—the one being the reckless spe-culator, the other the childish adventurer.— With the latter how many were there among

by such arguments as these—'Oh, no, these | Mitchell with great care. It has produced things will never do, they'll all go out of very fine ears of corn, some of them nine fashion to-morrow, and there's nothing like the good old way.' (Laughter). Yes, the good old way, for the adoption of which m most cases no argument could be adduced, except that the father, and grandfather, and great-grandfather, had used those meansthose good old ways, before them. (Applause). Look at the manufacturers, had they been checked by such childish ideas as these ? No; they were ready to adopt every thing in the way of improvement, and they might now see the perfection to which they had brought the manufacture of their goods .-(Applause). Why then should they be acthread by such nervous, such ridiculous ideas—depend upon it if they did suffer themselves to be so guided, no beneficial result ever could ensue. (Hear, hear). Again, let them look at Scotland for example in this particular-let them look at the state of the land in that country some few years back, and now from their exertions and from the improvements they had made, let them consider the result, namely, that that and which a few years back was in a most deplorable condition, was now worth triple the money. (Applause) In some few instances he was aware that that was the case here, but not to that extent which it should be. Mr Mauleverer next alluded to a school for the education of the labouring classes in agriculture, which had been proposed about three years ago, but which he regretted had not met with that support to which it was entitled, and proceeded to show the great advantages of education. He had a little Their own society he thought foult to find was too exclusive-they confined their attention too much to the breeding and exhibition of stock. Now there was ploughingwas it not important that that should be attended to? The celerity of ploughing, was not that a matter for consideration? Why not afford premiums to a class of that de-Why only give premiums to scription ? sheep, and cattle, and pigs, and so on, which it was well known were got up and crammed and fed by all sorts of manœuvres. (Loud laughter). He meant to say that they carried this department to too great an excess, to the exclusion of other things of great im-He would mention sheep-shearportance. Was not that of any importance? ing also. Why the fact was, they thought of nothing but pampering and stuffing a lot of animals with sage and new milk—(loud laughter)—and if the judges present would speak out, they would let the company into such secrets as they were little aware of. (Continued laughter). He would mention one instance recommended five pounds of good salt, eight of this which occurred at Bristol, where a cow was nourished by milk from three or four other cows, and when obliged to be milked in the middle of the day, as soon as the operation was oven, she turned her head round to the bucket, and commenced drinking the very milk she had just given. (Loud laughter). Instead of this, why did not the give their starved land plenty of seed? Instead of this, why did not they They did not starve their cattle, but they starved the land-and why then did they grumble about their shabby crops!"

are the objects of the respectable English Agricultural Societies.

who on the qualities of any new invention munny, supposed to be two thousand years being expatiated on, are ready to come for-old. At the proper season the grain was ward, and do come forward, and oppose them sown, and has been cultivated by Mr. inches in length, but the grain is much lighter than common wheat. Mr. Mitchell has saved the crop to make further experiments next year .- English paper.

WINTER BUTTER.

Of all the products of the dairy, there is none more extensively used than butter; and there is none the preparation of which extra attention. The difference between good and bad butter is as wide as between the zenith and the nadir; and there is no: thing more advantageous to the dairywoman, or more to be coveted by her than a high reputation for the quality of this article. Good butter always indicates good order, great neatness, personal supervision, do-mestic industry, and skill in housewifery; and when a man carries an inferior article to market, the opinion entertained of his wife is directly the reverse of this.

The first thing to be attended to in making sweet butter, and butter that will keep, the manufacture. Not only the vessels used, the pails, pans, churns, &c., but the room in which the milk is set, and the air which circulates in it, while the cream is rising, should be clean and free from every offensive odour whatever.

The temperature also of the milk while rising, and of the cream while churning, is of much moment. Cream on the nulk will be injured or melted by too high a temperature, as well as while the churning process is going on: and if the temperature is too low, the cream rises so slowly that it be-comes bitter and the butter of course is unpalatable. A temperature of from 50 to 60 degrees has been thought best for the milk room, and from 60 to 65 degrees will make good butter. The churning after it com-mences, should proceed without intermission until the butter is formed, and separated from the milk as far as it can be in this stage of the process.

The salting of the butter is a matter essential to its good quality. Too frequently, salt of a coarse, interior description is used; and so much is put in that it remains undissolved, gritting like sand in the teeth, and provoking uncomfortable thirst. The sait for butter should be of the purest kind, made as fine as it can be by grinding, and if a little powdered saltpetre is mixed with it, it will be none the worse. Some have ounces of saltpetre, and one pound of first rate loaf sugar, thoroughly incorporated and used for salting, at the rate of one ounce and a half to the pound of butter. If the salt is of the right kind, and the butter is correct in other respects, it may be ques tioned whether the addition of any foreign ingredient is not to be deprecated.

The great point in making good butter, and that which will keep, is the freeing of at from all buttermilk; and if every thing else is well done, if this point is overlooked, It will be seen from these selections what good butter is impossible for any length of The mixture of milk in any degreewith the butter is sure to produce frowiness or an unpleasant taste to the butter; and the entire freedom from this, constitutes the EGYPTIAN WHEAT.—Last year the Marare many who think washing butter with quess of Bristol gave to Mr. Mitchell, a water incompatible with retaining the rich gardener, of Kemp Town, several ears of flavour, but if the water is cold and pure, # With the latter how many were there among gardener, or themp are Egyptian is scarcely possible anything should be

washed away, the buttermilk which destroys the flavour of all butter excepted. Besides, the best butter in the world and that which in all markets commands the best price, viz : Dutch butter, is invariably made in this way; and where the example has been followed by others, it has rarely failed of success. If any, however, doubt the propriety of washing butter, they may use any method they choose, provided the milk is separated perfectly. Perfectly freed from the substance that causes it to assume that putrid frowy taste of bad butter, it may be kept with almost as much ease as tallow; and solidity in packing, clean, sweet ves-sels, and a low temperature, will ensure its keeping for any reasonable time. Let no one expect good butter, however, so long as coarse impure salt is used, or a particle of the buttermilk is allowed to remain in it.-Albany Cultivator.

KNOWLEDGE IS POWER.

In a late admirable report by Horace Mann, Esqr., Secretary of the Board of Education of Massachusetts, the following striking exemplification is introduced of the maxim that "knowledge is power":-

"M. Redelet, in his work, Sur l'Art de Batir, gives the following account of an experiment made to test the different amounts of force which, under different circumstances, were necessary to move a block of squared granite, weighing 1,080 lbs.

In order to move this block along the floor of a roughly chisselled quarry, it required a force equal to 758 lbs.

To draw the same stone over a floor of planks, it required a force equal to 652 lbs.

Placed on a platform of wood, and drawn over the same floor, it required 606 lbs.

By soaping the two surfaces of wood, the requisite force was reduced to 182 lbs.

Placed on rollers of three inches diameter, and a force equal to 34 lbs. was sufficient.

Substituting a wooden for a stone floor, and the requisite force was 28 lbs.

Withsthe.same rollers on a wooden platform, it required a force equal to 22 lbs. only.'

"At this point," says Mr. Mann, "the experiments of M. Redelet stopped. But, by improvements since effected, in the invention and use of locomotives on railroads, a traction or draught of eight pounds is sufficient to move a ton of 2,240 lbs.; so that a force of less than four pounds would now be sufficient to move the granite block of 1.080 lbs.; that is, one hundred and eight times less than was required in the first in-stance. When, therefore, mere animal or muscular force was used to move the body, it required about two-thirds of its own weight to accomplish the object; but by adding the contrivances of mind to the strength of muscle, the force necessary to move it is reduced more than one hundred and, eighty-eight time. Here, then, is a partnership, in which mind contributes one hundred and eight sight shares to the stock to one share contributed by muscle; or, while brute strength represents one man, ingenuity or intelligence represents one hundred with the stock to the stoc dred, and eighty-eight men 1"

From observations kept for the last half century, it appears that 1793 is the only year which can be brought into comparison a higher degree, and in 1802 it was above any former instance known in Paris (being once up to 39 5-10ths of the centigrade scale, 105 Farenheit). Those who pretend to be weatherwise predict that the ensuing winter, or at all events, the winter of 1843-1844, will be extremely rigorous.—Sclected.

(From an English Paper).

HORNCASTLE FAIR—ON BREEDING HORSES.

Mr. Epiton, - The great horse fair at Horncastle has just terminated, and, as a neighbouring gentleman of that town, I rejoice to say its character for receiving some of the finest horses in the world has not diminished. We have been visited by London, foreign, and other dealers from various parts of the United Kingdom, in great numbers, and notwithstanding the unsettled s ate of the manufacturing districts, much business has been transacted. First rate hunters and carriage horses fetched high prices, and were difficult to procure. Good generally reduced since railroads were esta-blished, there is no demand for the half-bred or inferior class of horses.

It may therefore be worth while to make There are proofs upon proofs that blindness, roaring, broken wind, spavins, curbs, &c., &c., have been bequeathed both by the sire and the dam to the immediate or more distant offspring. Peculiarity of form and con-stitution will also be inherited. The unstitution will also be inherited. of each will be in a manner lost, the defects ence to the points of the horse or the mare, a foal is produced, in all probability a worthless animal. I wish to impress upon the minds of all farmers that the excellence of the mare is a point of quite as much importance as that of the horse, and that out of a bad mare, let the horse be as perfect as he may, a good foal will rarely be produced.-Farmers should also bear in mind that a foal which, when arrived at maturity will

only for 151, but should the 1001, horse happen to receive a blemish during his work, he will at any rate bring as much as the un-blemished 15l. horse. I have been induced to make these remarks in the hope they may catch the eye of those farmers, who breed horses, and are careless about the stamp of mare they put to the horse, and who by being thus indifferent, are the cause of producing the inferior class of horses we have recently witnessed at Horncastle foir, and which I trust we shall see by degrees diminish in rumber.

Your obedient servant, TAugust 20th, 1842.

ON GREEN MANURING

The following trial of manuring with green crops was made by Herr Zahlbruckner in the year 1839-40, and was communicated to the Agricultural Society of Yienna at the meeting in April last year. Three pieces of ground were selected for trial-No. 1 was treated as a clean fallow, and afterwards thickly manured .; No. 2 was sown cert horses were sold readily at remunerat- twice with Vetch seed, and when the plants ing prices, but the "machiner" half-bred had grown were ploughed in; No. 8 - Ras and inferior class of horses more difficult of sown with Lupine seed, and treated in the sale, and at low prices. The great coach same manner. The first piece of ground and posting establishments having been so contained about 500 square yards, the two contained about 800 square yards, the two latter about 400 square yards each. The vetches and lupines were both strong in their vegetation, and the first crop of former was ploughed in at the end of June, a few remarks on the breeding of horses, and the second crop with the lupines in the for there is no part of England where there middle of August. In the middle of Sept'r. are more spirited, and at the same time all three portions were sown with winter more careless, breeders of horses than in tye, in the proportion of three pecks of seed rye, in the proportion of three pecks of aced the limits of the circulation of your paper, to the acre; in all three pieces the plants The first axiom I would lay down is, that appeared about the same time, the green"like will produce like"; that the progeny
manured a day or two sooner. No difference
will inherit the qualities or the mixed qualiwas observable in the character of the young will inherit the qualities or the mixed qualities of the young ties of the parents. It is also certain that plants, and each crop passed through the the foal will inherit the diseases of the pa-winter of 1830-40 without any, injury, and the foal will inherit the diseases of the pa-rents, or at least the predisposition to them. in March, 1840, when the snow and ice had melted away, little or no difference was perceivable in the crops. At the time, on flow-ering, the fallow and lupine plots were more vigorous than that of the vetch; and at the lupme plot had attained the highest and skilful or careless breeder will often so strongest growth. In thrashing the accord badly pair the animals, that the good points the following was the result of these experiments: No. 1 delivered 321 pecks to the of both will be increased, and the produce Austrian acre; No. 2, the vetch manured will be far inferior to both sire and dam.— yielded 264 pecks per acre; No. Systhematics. Of late years these principles have been lupine-manured, yielded 311 pecks per acre. 42 much lost sight of in the breeding of horses, In some previous experiments made insthered and the following is the explanation. There year 1833, the green-manuring with theme are nearly as good stallions as there used to lupine yielded a larger produce than ithe be: poverty or indifference has induced thickly-manured fallow. That the wetch we many of the farmers to use that mare on indirect on the farmers to use that mare on indirect of the lupine so large a quantity as his farm which has cost him little money, of seed as the lupine, may be ascirbed to a but still he determines to have a foal from the heat to which it was exposed during thou. but still he determines to have a roat from the heat to which it was exposed uning thom, her, and she is put to the horse; but by latter part of the season; but still, the ro-ne what rule does he select the horse? Why, sult proves the value of this kind of manufacture a horse is selected because "they say" he ing. This mode of providing manufacture so and so for his covering, and a foal is still these cases which sometimes occur, in our feel, or neighbour So-and-Sulas a horse. Which the tarmer cannot obtain the requisite of a foal; or neighbour So-and-So has a horse, which the farmer cannot obtain the requisite of and you know we must not go by him, for it quantity of animal manure. Although these. .: would not be neighbourly. Under these experiments in some measure contradict the el considerations, not having the least refer- recent doctrine, that all manures are derived from the morganic kingdom, yet the practical farmer will not fail to avail himself of this ? ready way of obtaining manure. This mode of manuring may be conducted with others. plants, especially those with large or abund ant leaves. The families of Crucifere and !! Chenopodiacem offer an abundance of special cies fit for this process.; and therela connict merous common weeds which might also bell employed for the same purpose, without any sell for 15L, requires as much more food as expense. The Madia saina, would also, bone with the present as to long continuance of one that will sell for 100%, and that the a good plant for green-manuring and belief from heat and thought. For some days, however, latter (if worked) will perform as much ed from Verhandlingen der for the breeder as the one that sells scashfi-Gesclischaft in Wien.

POETRY,

THE FARMER'S HARVEST SONG.

Ho! topen ye lads-the morning breeze Has swept the mist from the stream, And after on the hills the towering trees Are tipt with the day's first beam; The stars are gone—the night has sped, And the lark has hailed the day ! Arouse ye, then, while the morn is red-Away to the field, away!

To us no music sounds more sweet Than the sharpening clank of the scythe; And echoing hills with gladuess greet. The song of the reaper blythe. How pleasant to follow, with take in hand, The mower's devious way And scatterabroad with lightsome wand, The green and perfumed hay.

Let the soldier exult in the pomp of war, The king in his serf-througed hall; The free-horn farmer is happier far
Than kings, and lords, and all.
His are no fields with carnage red, And drenched with the blood of the slain; But hills and vales o'er which is spread A harvest of waving grain. A harvest of waving grain.

The summer sun, o'er valley and plain, Has shed his genial ray, Till smiling acres of golden grain Await the harvest day; And into their borders we will not fail To carry the war to the knife, And eager, too, are the cradle and flail To be wielded in bloodless strife.

Then up and away, while the diamond dew Bespangles the bending corn; And gaily we labour, the while we woo The bracing breath of morn, And under the shade of the beeches green We'll rest at noon of day.

Hurrah! for the sickle and scythe so keen! Away to the field-away!

From The Montreal Herald.

PEMARKS ON THE PREPARATION OF PROVISIONS.

BY THE MONTREAL BOARD OF TRADE.

The Board of Trade of Montreal, under the impression that the superior order in which flour was delivered in this port the last season, has in part resulted from their remarks respecting its preparation, have, owing to the great alterations in the mother country on various other articles of food, again to address the public on the proper method of putting up such articles, for which there will probably be a demand in Great; Britain, but which, to realize the views of intending shippers must be so prepared as to be suitable to the tastes of the proposed consumers. Îti desirable to show not only what should be done, but what should be avoided, in order to secure a trade, which, with care and economy, promises to be of very considerable advantage.

The articles which claim attention, are: Prime Mess Beef in Tierces and half "Tierces, Ditto ditto in Barrels and half Barrels. Prime Pork in ditto Hams and Pigs? Cheeks. Sausages. Mutton Hams. Butter, and Cheese.

Mess Beef is so very difficult to be proeured, that, as an article of general export, barrel and half barrel, tierce and half tierce, be well if that construction were adopted in the process of the process of the case of the c

of so very good a quality, and so much of with regard to which the requirements of the animal has to be rejected, that it will this Act have not been complied with."* hardly pay to put up. If cattle good enough for Mess could be poocured, it would be better to put up the rounds and briskets separately, and to salt and dry the remainder-The Inspection Law provides that Mess beef shall consist of the choicest pieces only, which are briskets, the thick of the flankribs, rumps, and sirloins. It is generally considered that cattle to be fit for Mess beef must be five years old. On the other hand, I Prime Beef is not sufficiently good, so that I it is to Prime Mess the Board would particularly direct the attention of packers, which is the Moss Beef of the Irish market.

By the Inspection Law, Prime Mess Beef shall consist of pieces of meat of the second class, from good fat cattle, wi hout shanks or necks. This is sufficiently fat for the English market, and may be made from the meat of cattle of four years old, or even from those of three, if of good breeds; there is but little rejected, and that little only fit for use while fresh.

As the Law above referred to is precise as to the construction of the tierces, barrels, &c., in which provisions are to be packed, the Board think it advisable to insert the clause regulating that matter. It should be remembered that beef is preferable in tierces and half tierces, pork in barrels and half barrels.

Clause 10, of the Act 4, and 5 Vic., cap. 23, to regulate the Inspection of Beef and Pork, "And be it enacted, That from and after the passing of this A , each and every barrel and half barrel, tierce and half tierce, containing seef and Perk, inspected in this Province, shall be made of good seasonable white oak staver, and the heads not less than three quarters of an inch thick, and each stave on each edge at the bilge shall not be less than half an inch thick when finished for parrels, nor less than three quarters of an inch thick when finished for tierces, and the wood of half barrels, or half tierces shall be in the same proportion to their size, and shall, in both cases, he free from every defert; each barrel and half barrel, tierce or half tierce, shall be hooped and covered twothirds of the length with good oak, ash, or hickory hoops, leaving one-third in the centre uncovered; and each barrel or half barrel, tierce or half tierce, shall be bored in the centre of the bilge with a bit of not less in diameter than one inch, for the reception of pickle; each barrel shall be not less than twenty-seven inches, nor more than twentyeight inches and a half long, and the contents of each barrel in which beer shall be packed or re-packed, shall not be less than twentyeight gallons, nor more than twenty-nine gallons, wine measure, and the contents of each barrel in which Pork shall be packed or re-packed, shall not be less than thirty gallons, nor exceed thirty-one gallons, wine measure; each tierce shall not be less than thirty inches, nor more than thirty-one inches long; and the contents of each tierce in which Beef shall be packed or re-packed, shall not be less than forty-four gallons, nor exceed forty-five gallons, wine measure; and the contents of each tierce in which Pork shall be packed or re-packed, shall not be less than forty-five gallons, nor exceed forty-six gallons, wine measure; and half barrels or half tierces in which pork and beef shall be packed and re-packed, shall severally contain half the number of gallons above mentioned, and no more, and it shall he the duty of the Inspector or Inspectors appointed under this Act, to examine carefully and ascertain the sufficiency of each

As to packing, of course the rounds and briskets can be put in kits; the prime, mesn beef, as before observed, in tierces and half tierces, and cut up in precisely eight pound pieces, thirty-eight pieces making a liered of three hundred and four pounds; nineteen a half tierce. If any error be made, it must be in excess of the proper weight. The meat as soon as put up, should be packed in wats with dry salt, and strong pickle made with one ounce of saltpetre to six pounds of salt, poured on it. The salt should by from sulphate of soda, muriate of magnesit, or other impurities too common in the salt of the United States. By the Inspection Bill it is imperative to use St. Ubes, Isle of May, Lisbon, or Turk's Island salt, or other ccarse-grained salt of equal quality. After being thus prepared, it is left for twenty-four hours, when it is put up in new pickle for at least seven days, such having no saltpetre in it: or it may be left in the pickle until prepared for exportation, when it is packed with a layer between each tier of meat, and between the top and bottom of the barrel, of a mixture of six pounds of salt and one pint of molasses. In this way, instead of eighteen and a half pounds of salt to each fifty pounds of meat ordinarily used, six pounds will be enough. When headed up, the packages should be filled with the strongest, and perfectly clear pickle. Great care should be taken to cut out all bloody pieces or bruised meat, and to avoid dirt and sand on all occasions. The scales and blocks should be particularly attended to, and should be well scoured prior and subsequent: to being used. In slaughtering, it is highly requisite that all the blood be removed, and the meat allowed to cool thoroughly before it be cut up,

Dried Beef, consisting of the ribs and legs, with the hones out of the latter, is very saleable in Britain, if of good quality; this is merely well cured, and then dried, but not smoked, and should be of the very finest meat only. Vennon, also Mutton, Hams, and Shoulders, would if similarly prepared. meet the wants of the British consumer.

Tongues salted in the same manner as Boof, are in request; not only those of Cattle, but of Pigs and Sheep.

They should be prepared with great clean. liness, and any thing offensive about the root pared away. Kegs of from fifty to one hundred are the most suitable.

In Pork, the article most wanted is Prime, such being the Mess of the Irish packers. Mess and Prime Mess being too fat, and Cargo too inferior. It should, however, be small, owing to its being young, and from no other cause, say made from pigs from nine to twelve months old, weighing about one hundred and fifty pounds each, the coared pieces of one hog and a half only being packed. It should be fairly hog and a half pork, not the fat pieces of heavy pork made up with the coarse pieces of the same, but made from pigs not heavier than the weight noted. Neither the head nor the feet should! he packed, the cheek should be cut off, and may either be packed or left out. It must invariably be cut into four pound pieces, and any bloody part about the neck taken away; indeed it would be better if in the first cut of the neck, not only the bloody parts were removed, but the bone cut out also. The shank of the shoulder cut close to the body of the pig should also be left out.

The Irish provision packages have the second chime hoop at each end of iron; it would, be well if that construction-were adopted in Con-

Cargo Pork, from young pigs of one hundred pounds and upwards, and leaving out through), should also be well rubbed with and of animal food.

the heads, would answer if it should be salt. When well dried, and if smoked for Batter, to be suitable to the English marmarked "Pig Pork," The best way of put-not more than six hours, they should each ke', must be clean, and free from whey, ting this up would be to take young pigs of the covered with cotton and whitewashed which should be pressed out with spatulas, one hundred and twenty-five pounds, and with lime. The cheeks should be cut clear not with the hand; unless all the whey be leaving out the hams and heads which could be dried, to pack the remainder, which, having less coarse pieces than allowed by law, might be safely marked "Prime." The Board considered this a most chyble mode of putting up, and one which would meet with favour in the mother country. The mode of cuting and packing pork is the same as that described for beef, except that the molasses are left out, and it is cut into four pound instead of eight pound pieces. It is preferred in barrels and half barrels.

The reason why tierces and half tierces are preferable for beef, and barrels and half barrels for pork, is, that beef, from the size of the animal, is cut into larger pieces. The Irish practice is to put thirty-eight pieces of eight pound each in a tierce of beef of three hundred and four pounds, and fifty pieces of four pounds each in a barrel of pork of two hundred pounds. None but very superior meat should be put up in half packages Pork, to suit the Eng-lish market, must be of a firm texture, young, as-before remarked, and well fed, with a due mixture of fat and lean throughout. Pigs fed in the woods, may, by being kept poor a time, and then fatted on peas, corn, or other grain, become very superior meat, but it is to be remarked that pigs fed at distilleries require very long feeding on grain to make good pork. The only use to which distillery fed pork can be put, is to render it into lard.

Bacon is an article of great consumption in Britain, and consists of entire sides of pigs (singed, not scalded), excepting the hams, and having the back bone taken out as far as the middle of the side, as little or the meat being removed with it as possible, the knuckle cut off from the shoulder, close to the body of the animal, and the lower part from whence the ham is taken is trimmed square; or, of sides having both shoulder and ham removed, and the neck cut off square; the latter mode is preferable, as "short middles," as they are termed, are very saleable in Great Britam. The mode of caring is to rub it well, daily, for at least thirteen days, with saltnetre and salt, in proportion of one ounce of the former to ten pounds of the latter; it is then either packed in that state, or rubbed in every part with bran to absorb the moisture, and dried tho-roughly. It is preferred however, in the damp state in the English market. Four sides may be packed in a cotton bag, which would be whitewashed. The most desirable pigs for bacon and hams, are from one hundred and twenty-five pounds to one hundred and seventy-five pounds weight, though pigs under two hundred and fifty pounds may do. The pigs must however, be well fed, and small from being young, and not because they are of a bad breed, or badly fed. necks and rumps can be cut free from bone, and either put up in barrels or prepared as bacona. The hand piggs cheeks, and shoulders should

be dry salted as bacon, excepting that one pint of molasses should be added to the same proportions of salt and saltpetre. the hains be very large, it perhaps, may be necessary to rub them daily for twenty-nine days, instead of thirteen. They should be cut in the Westphalia fashion, so as to be compact, not taking away all the fat from the pork or bacon, and not cut over, but straight up and down. A cut must be made at the knuckle, to introduce the salt there;

pork must be avoided; even cattle, fed to tro great an extent at a distillery, will prove inferior.

Sausages are imported into Great Britain in considerable quantities, and are generally mode from beef, sometimes from pork, and often are a mixture of both. They are put, into the large got of the ex generally, but, sometimes in pigs' guts, and are salted and dried. The Dutch and Germans make pork sausages, and merely salt them, they form part of the domestic stores of every family, and are much used at sea. The neck and rump pieces, and some of the inside fat, may thus be very advantageously worked up. especially into the large dried sausages, for which there is a great demand in the mo-ther country. They must be prepared with

lard, great care being taken to have it very clean, and not to burn it. The Board particularly urge attention to cleanliness, as for want of this, the article may be unsaleable. The hams and shoulders of pigs, not too soft, may be salted and dried, and the lean parts made into sausages; they should not be packed with those made from hard pork, but sold separately.

The shoulders and hams of sheep, salted English market.

England, for curing provisions. It is a machine consisting of a cylinder of cast-iron, connected with air pump, and communicating by a tube with a tub containing strong pickle. The cylinder has an air tight cover. The mode of curing it is to introduce the meat into the cylinder, placing on it the air tight cover, withdrawing the air by means of the suction pump, then letting in the pickle, and afterwards forcing in air on the surface. On taking the meat from the cylinder which may be done in a few minutes. it is perfectly cured, and may be packed in the usual way. Such machines would be highly useful in this Colony, enabling meat to be preserved at any season, and any sudden demand to be speedily supplied.

Butter and cheese will, under the new Tariff, he articles of very great importance, and well worthy the attention of agricultur-The duty on foreign butter being 20s. per cwt, on cheese 10s. per cwt., whilst on Canadian, it is but 5s. on the former, and 2s. 6d. on the latter. The Dutch export of these articles to England, to the value of nearly one million pounds sterling per an num, the whole of which trade may easily be secured to Canada; and if the export of cured provision be only another million, the importance of the trade now opening to Canada may be easily conceived. But this is a small amount compared with what it might eventually be extended to, for in exchange and the hip joint, which, in cutting the ham for manufactured goods, the people of

should be divided, (the bone not being cut Bri ain will take any amount of bread stuffs

could from the hones of the head, and may be extracted it will not keep. It should be have packed in a dry cask or flour barrel. Nei-law, ther of these articles answer to ship in the of sall, one onnce of saltpetre, and four a The damp state. Ribs of very fat beef, and the onnces of sugar, well worked in, and put up, damp state. Ribs of very fat facet, and the leg with the bone out, both of beef and veniform, may be cured the same as hams, but cash; no two qualities in the same cash, and but up in dry harrels.

As before remarked, any distillery fed by salted. The butter should be but lighted by salted. The common error in Canada is at the cash resembles of the common error in Canada is at the cash resembles. to sait too heavily. A large quantity non-doubt is necessary, when the whey is not well pressed out, but when that is done a... very moderate quantity will suffice.

There is no necessity for using colourings with summer and fall-made butter, the onlye: kind suitable for export. The winter buttershould be kept apart and used in the Colony.

As to choose, the consumption in Great Britain is very great and very constant; but Canada hitherto has been an importing iristead of an exporting country. It is unne-ig cersary to describe its manufacture, further than to state, it should be made from new a milk, and in such parts of the Colony as, being hilly, possess short pasture with plenty of sweet grasses; and indeed are the reverse of a good butter producing country. cleanliness, and be well seasoned with Inferior choese may be made with the morn-inpepper. ing's milk skummed, added to the afternoon's. The inside fat, of course, is rendered into milk, new and fresh—and this on lands most. ing's milk skimmed, added to the afternoon's suited for butter: but it is to the hilly parts of the Province, where, excepting sheep and cattle, little can be produced, the Board paraticularly poort, as likely to derive important. advantages from the manufacture of this article. The best form for cheese is that of truckles, say eight or ten inches across, and four and a half to six inches thick, round or square; these are best suited to small farm's. In larger farms, choeses of greater size can and dried, (not smoked), packed in flour he made, say twelve to fifteen inches, by harrels would be well worth total in the six deep. The large cheeses like the Cheshire, are difficult to keep; they should be As connected with the present subject, well salted, but not too much so; and co-the Board of Trade desire to give publicity, loured with Annatto, but not too deeply; to an invention recently brought into use in such in England being considered the sign,

of an i	iforior article.	
The Act 3 Victoria, chap. 17, kevies an additional charge of 5 per cent. on the above darks	Beef, salted, per ewt Pork, do. do. Bacon, do. Ilams, do. Tongues, do. Lard, do. Cheese, do.	DIFFERENTAL STATEMENT OF THE DUTIES IN GREAT BRITAINS.
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Map. 17,	FROM FOREIGN COUNTRIES per cwt. per bbl s. d. s. d 8. 0 14.3; 8. 0 14.3; 14. 0 14.3; 14. 0 14.3; 16. 0 16. 0 17. 0 0 18. 0 17. 0 19. 0	ATEMEI S'RÉFER
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and Services of process

EXPERIMENTS IN THE GUANO.

The substance called Guano having attracted much attention in England as a manure, as well as excited a considerable degree of interest amongst many microsent (bouring rows, effects similar to the last were cultivators of this island, I instituted a scrive of experiments at the Kirk Onchan nursery on its fertilizing properties.

curs as a deposit, of very considerable thek-tother vegetables, in competition with dung ness, on various small rocky islets on the The growth produced by the Guano has, in coast of Peru, ranging from the 12th to the 21st degree of south lautude. Its wigin has been a subject of fanciful speculation, but the complete comparative results. it is now certainly known to be the excrement of peculiar kinds of sea-towl; which, feeding on fish, and visiting these islands in I flocks dense enough to obscure the light of the sun, have accumulated their droppings to an extent that seems almost incredible the Peruvians for all kinds of creps.

It will not be necessary for me to detain you with a particular account of the constituents of Guano as ascertained by chemical analysis. According to the views of Luchig, and others almost equally celebrated in the agricultural department of chemistry, its son.—English paper. fertilizing effect is to be attributed to the nitrogen it contains, in the form of ammoniac and uric acid, (the latter giving use b, its slow decomposition to the former), and also, but secondarily, to the phosphate of line, which furnishes many pla its with matters-essential to their healthy growth. After this short preliminary detail, which it was thought might possibly interest some of the members of the society, I proceed to give an account of the experiments with Guano at the Kirk Onchan Nursery,

On a soil there of a light and poor nature, which would mest decidedly deserve the name (to use the language of the farmer) of a hungry soil, were growing and suil grow, two patterns of grass-one of Stick-ney's rye-grass, mixed with small quantities of holcus lanatu (woolly soft grass) and poa trivialis, the other of Italian rye-grass. A space was measured off from each of these patches, and on the 12th of May last both the spaces so measured off were top-dressed with Guano, with great care, at the exact rate of three cwt. per acre.

yard of the dressed and undressed spaces, taken as fairly as possible, was cut and carefully weighed in the presence of Lawrence Adamson, Esqr., of Douglas, who had taken great interest in the experiments. The following were the results:-

FIRST EXPERIMENT.

Stickney's rye.grass, and small quantities of Holous lanatus, and Poa trivialis.

Of one square yard, dressed with Guano at the above rate, the pro-

> SECOND EXPERIMENT. Italian ryc-grass.

Of ditto not dressed..... 43

The Guano was also applied at the same time (12th of May), and at the same rate, to a row of young elms, and on the 20th of June this row could be distinguished, even a row of young elms, and on the 20th of June this row could be distinguished, even children under the age of six years, learning same description. They are apparently of twenty-five years growth, and it does not by its deep and healthy green, and more free and vigorous growth. at a considerable distance, from the others, free and vigorous growth.

the benefit of the application.

On a row of strawberries, and the neigh-

The Guano has also been applied, after the above rate, to different kinds of potatoes,

In the mean time, I have this day produced to the society, specimens of turmps and mangel wurzel, as grown on each manure.

experiments on the grasses seem (t is most of land under grass for hay.

THOMAS LYLE.

Onchan Nursery, August, 1842.

The report was listened to with much at-

EDUCATE YOUR CHILDREN EARLY. -What is the object of education? To form the character. How is this to be done?—Not by lessons, but principally through the influence of example, and circumstances, and situation. How soon is the child exposed to these influences? From the moment it opens its eyes and feels the pressure of its mother's bosom-trom that time it becomes capable of noticing what passes around it, and knowing the difference of one thing from another. So powerful are the gradual and unnoticed influences of these early months, that the infant, if indulged or humoured, may grow into a petty tyrant at ten months old, and tottle about in two years, a selfish, discontented, irritable thing, that every one but the mother turns from in disgust. During this period, every human being is making its first observations, and acquiring its first experience; passes his early judgments, forms opinions, acquires habits. They may be ingrained into their characters for life. Some right and some On the 20th of June following, one square wrong notions may take with firm hold, and some impressions, good or bad, may sink so deep as to be with scarcely any force oradicated. There is no doubt that many of these incurable crookednesses which we air bute to nature, would be found, if they could be traced, to have originated in the early circumstances of life; just as a deformed or stunted tree, not from any natural perversity of seed, from which it sprung, but from the circumstances of the soil and situation where it grew.—Journal of Education.

> EARLY FORMATION OF GOOD HABITS. If a child is neglected till six years of age, no subsequent education can recover it.-If to this age it is brought up in ignorance and dissipation, in all the baseness of brutal habits, in that vacancy of mind which such habits create, it is in vain to try to reclaim it by teaching reading and writing. You may teach it what you choose afterwards, but if you have not prevented the formation

The Gurne was also applied to a row of Reading.—Of all the amusements that brokes with projectly similar cillets, the can possibly be imagined for a hard-working neighbouring rows decidedly partaking of man after his daily toil, or in its intervals, Reading-Of all the amusoments that there is nothing like reading an interesting newspaper or book. It calls for no bodily exerting, of which he has already had enough, or perhaps too much. It relieves his home of its dullness and sameness. It transports hun into a livelier and gayer, and more diversified and interesting scene; and Guano, it may be as well to premise, oc- to Swedish turmps, to Mangel Wurzel, and while he empty humselt there, he may forget? the evils of the present moment fully as much as it he were ever so drunk, with the all these cases, been exceedingly healthy great advantage of finding himself the next and vigorous, but it is yet too early to give day with the money in his pocket, or at least day with the money in his pocket, or at least laid out in real necessaries-and without the drunkard's misery of mind and body. Nay, it accompanies him to his next day's work; and it what he has been reading be any thing above the idlest and lightest, gives The extraordinary consequences of the him something to this every day occuthe accumulations attaining, it is said, the respectfully submitted to the society to pation—something he can enjoy while ab-thickness, in some places, or 300 yards— leave little doubt of the excellence of the sent, and look forward with pleasure to. If Vast quantities of this manure are used by Guane, as a top-dressing for the general run pation-something he can enjoy while abstand me instead under every variety of circumstances, and be a source of happiness and cheerfulness to me through life, and a shield against its ills, however things might. go amiss, and the world frown upon me. it . would be a taste for reading. Sir J. Herschel.

> SMITHFIELD ON A MARKET MORNING. There is much to see and something, it may be, to smell, in Smithfield on a market morning. Its penned thousands of Leicesters, South Downs, and Merinos-its countless. thousands of fatted swine-its multitudes of bleating limbs, pretty dears, so soon to be swallowed with mint-sauce, salad, and the usual c'ecteras-its streets of living oxen, whose broad backs form a level leathery fleor, over which you often see adventurous drovers, stick in hand, take their desperato way. Corpulent graziers, with leathern pocket-book crammed with Bank of England notes; enterprising knackers, wholesale. dealers in that favourite article of food-horse-flesh, subsequently retailed to the heges in "a la mode" beef, mutton pies, sausages, and a variety of other rancy costunes; lynx-cycd salesmen, who have but to glance at a heast to know how many stond he weighs, offal inclusive; journeymen, butchers looking for a job; policemen on. the cent for a roving pickpocket; chaw-bacons in smock frocks, munching bread and cheese, or gazing listlessly around from the secure emmence of a waggon, load, of hay; shepherds and drovers from all quarters of the agricultural world, and you have a morning at Similhield. — The World of London, in Blackwood.

EXTRAORDINARY ROOT OF BARLEY. -A single root of Barley was exhibited at the meeting of the North Suffolk and South Norfolk Agricultural Association on Wednesday last, which consisted of 122 distinct ears. This root was the produce of one grain of barley Half a perch was planted in single. grains on an acie of land in rows four feer and half apart, and twelve inches distant in the rows, and produced forty-four bushels.

A great natural curiosity was also exhibited, being a small branch of a tree, the leaves on one half of which are horn-beam; and on the other American oak. There are three of these trees now growing near each

The following report of a Lecture deliver- the sea-so that supposing two fields on the ed by Dr. Maddin, at the late meeting at same level, one of which was in a proper Edinburgh of the Highland and Agricultural state, and the other was undrained, the dif-Society of Scotland, we copy from the re- near the level of the sea and a field as lofty ported proceedings on that occasion, which, as the highest of the Pentland Hills. But are highly interesting :-

"At three o'clock, Dr. Henry R. Madden, Penicuik, proceeded, in presence of a numerous audience, assembled within the So-'ciety's museum, George the Fourth's Bridge, to deliver a lecture On the condition of the soil at seed-time, as influencing the future prospects of the crop.' Lord Dunfermline occupied the chair.

error which to some extent prevailed, that before the farmer could apply chemical discoveries to the purposes of his own pursuit, he ought to be in truth a chemist as absurd to say so as it would be to say that no one could follow medical advice unless he were a physician, or that no one could make use of a watch unless he knew all its mechanism. He proposed simply to give an account of the different variety of soils at the time of putting the seed into the ground; and in the course of his observations he trusted he would be able to show that theory and practice were not so diverse as they were generally supposed to be.— The science of all arts was discovered by looking into the practical effects. The first thing that occurred to the seed after sowing was germination - to which process, air moisture, and a certain degree of warmth were necessary. The soil was the vehicle through which these were communicated to With respect to the mechanical the seed. properties of the soil, it consisted of particles of various shapes and sizes, and these were generally porous, though some of the smallest assumed a solid form. The fine dust of soil is found by the microscope to consist of broken down vegetable matter, and he had endeavoured to give a representation of the character of those particles in several diagrams, (to which Dr. Madden then referred in detail, to illustrate the variety in soils). There were two distinct kinds of nores: first, those which ran between the different particles, and secondly, those which existed in the particles themselves. T' diagrams represented soil when the pores were supplied with air alone, where the pores were superabundantly supplied with water, and with water alone, and when the pores in the particles were supplied with water while the other pores admitted air. The last was the proper state of the soil. Another diagram represented soil in which the interstitual pores were obliterated; this was in fact a clod, and of no more use for germination than a stone. The first state of too great dryness was very rare in this country, occurring in coarse sand, and the mode of detaining the moisture adopted in some places was to leave the stones on the surface, so as to prevent the evaporation of water. In the second instance, the water was absorbed by the pores of the particles passing through the canals, and the soil remained damp or moist, but was not wet. If, however, from the occurrence of spring water too much water for the pores was furnished, the canals must of necessity be filled. This was the condition of undrained soil, and the whole process of germination and vegetation were materially interfered with. Hence the necessity for thorough-draining. The first effect of this state of soil was to exclude the air, which was essential to germination; the second was considerably to reduce the temperature of the soil in summer to the extent sometimes of six and a half degrees, which tante emptied of fluid, or, we may say, dried, was equal to an elevation of 1,950 feet above are thus deprived of a part of their susception or fine furniture."

while the temperature was lowered during summer in undrained soil, it was rendered unnaturally high in winter; for while the change of temperature amounted to between thirty and forty degrees in the course of the year, the temperature of soil saturated with water ranged only between some 6 or 7 degrees; and thus the healthful influence of a variation in the temperature was lost. Dr. Madden then proceeded to show, in like "Dr. MADDEN began by adverting to an manner, the necessity of attending to the pulverization of the soil, so as to prevent it from getting clodded, and the advantage of drill-sowing. He adverted to the benefits arising from attention to such points as those he had brorght under the notice of the meeting, as neglect of the state of the soil, carelessness in sowing, and other circumstances within the control of the farmer to some extent at least, were calculated to affect the seed in its various stages of germination, growth, flowering, and ripening. thing caused the plant to flower too early, the produce was not so large as it would otherwise be: and so whatever tended to interfere with the due periods fixed by nature for the healthy performances of these various processes should be as carefully guarded against as possible. After some remarks on the necessity for calling in the aid of practical knowledge to correct the hasty deductions of scientific inquiries, he adverted in conclusion, to the great utility of applying the results of scientific research in the cautious manner which he indicated to the improvement of agriculture-an art which was at once the most important, and the most extensively cultivated.

"After some remarks by Mr. Aitchison, of Drummore, and Mr. Milne, expressing their warm approbation of the lecture, the meeting separated."

PROTECTION OF PLANTS FROM FROST-Now that the protection of plants from frost is a first object with all possessors of gardens, we wish to direct attention to one fact which is seldom considered. There are many trees which will resist the effects of our frosts without any covering to their heads, provided the roots and stems are carefully guarded and kept dry. Among this number is the Magnolia grandiflora.— Formerly there were trees of this species in Paris—and they may possibly still exist—whose only protection in the winter was a heap of dry straw piled over the roots, so as entirely to cover them, and thatched to the height of 5 or 6 feet, so that the head of the trees formed the apex of a cone, the body of which was straw. By this precaution, the earth is unable to freeze, and the fluids in the interior of the tree are maintained at a temperature approaching to that of the earth. While, on the other hand, if the earth is frozen hard, the fluids in the roots are frozen also, and they thus tend to lower the temperature of the fluids and the branches.-But this is probably not the only reason why tender trees are preserved by this kind of protection. It is to be observed, that the destructive effects of frost are in proportion to the succulence of the parts on which it acts; and it may be, that the contracting influence of cold gradually forces the fluids out of the unprotected branches into those lower parts which are guarded from the action of cold. Then the branches being pro

Those who are disposed to bility to cold. try the effect of protecting plants by thatching or burying their roots and stems must, however, bear in mind the necessity of the substance employed being dry, and applied in such quantity as to keep the earth really protected from frost. All the tender roses may probably be preserved in this way.-

Frax.-It is considered the best management of flax to be dried after pulling, and safely kept under cover until the following year before it is steeped, it is then steeped in the following manner in Flanders :-

"The flax, before going into steep, is neatly bound in large bundles, with a strap round each end, and one in the middle, care being taken to have the ends very even. It is then laid nearly upright in the water, after the manner in which it grew, each row inchning against the other. It is then covered with straw and mud-(stones would do better, but they are not easily had here) .-It remains in this way, until it has sufficient water, which is known by the fibre turning a little glutinous, and leaving the straw treely, when broken about the middle. It is, immediately that it is ready, taken up, and put into binns, or on its end, to drain for two days: afterwards spread out on the grass—for how long I cannot say, as its stay there will be retarded or accelerated by the good or bad state of the weather."

THE USE OF SNUFF.-With that he thrust his hand into one of the large fiaps of his waistcoat, drew out a ponderous gold box, extracted enough from it of a black looking powder to have charged a musket, and crammed the dust up his left nostril. "May lask what that stuff is!" said the Chevalier;
"I have seen a great number of persons stopping their noses with something of the same kind, as if this country were famous for bad smells, and they wanted to keep them out." "I will tell you what it is, Chovalier," said Mr. Longshanks; " it is what we call snuff, the power of a poisonous weed, which by this process is rendered very serviceable to our frailties. I have heard that you think us all mad, but that is a mistake; we are only all foolish. This snuff gives a man something to do when he has nothing; spares many an empty head the trouble of making an answer; gives peliticians, hypocrites, and knaves time to compound a lie when they have not one ready; furnishes a wise look for a fool's face; enables men by a grimace to cover an emotion, and prevents people leading you by the nose, for fear of dirting their fingers. — The Commissioner.

THE ARRANGEMENT OF THE FARM-FENCES-GATES-AND GARDEN.

Arrange your house in order due, Your garden, gates, and fences too; Neglect's offensive, and what's worse, It helps to make an empty purse.

KEEPING UP OF APPEARANCE.—Dr. Franklin says-" The eyes of other people are tho. eyes that rain us. If all but myself were blind, I should neither want a fine house PREPARATION OF LAND FOR CROPS.

(Continued from our bist,

In this case, the land may be ploughed in a direction at right angles to the provinces ploughing, that is, in the direction in which the future ridges are to run; but it will be better to plough somewhat diagonally, that is, nearly in the direction from corner to corner of the field. This is done in order that two, successive ploughings may not be in, one direction, for the next plaughter to be given, as we shall immediately see, must necessarily be lengthwise in the direction of the ridges. But by deviating from this direction with the ploughing now to be onen, the two successive ploughings will cross each other, and thus the tilling will be befor performed.

No sooner is this diagonal ploughing completed, than the process of harrowing, rotiing, and cleaning the ground of the roots of vivacious weeds, is to be reacted, precisely as after the preceding ploughing. It is not necessary or expedient that the process of harrowing shall be carried further than is absolutely required to disengage the weeds: but to this extent it is important that ie be carried, so that the land may now be cleaned.

These two ploughings, with their corresponding harrowings, are of the utmost inportance in the management of the summerfallow. If the weather has been lavourable, the land may now be expected to be chi (tually cleaned, and thus for to be in good order. Sometimes a further ploughing may be required for the purpose of completing the cleaning process, but whether this be so or not, the land ought now to be formed into ridges. This is nocessary, in order to provide against the contingency of heavy rains, which, were they to occur at this period, when the land is laving in-a flat state, might so soak it as greatly to retard the future labours.

We now, therefore, proceed to strike the furrows in the manner formerly explained. The land is then ploughed and formed into ridge, and this completes the fifth ploughing-which it has received. The land will generally be now ready to have the dung laid-upon it: But in some cases it may requite a sixth ploughing before it is sufficiently cleaned and prepared for the dung. In this case, the land being harrowed, and the remailing weeds collected as formerly, it is ploughed again in the line of the ridges.

We may proceed, however, upon the supposition what this turther ploughing and clealing are not required, and that the land, after"the fifth ploughing, is ready for the application of the dung. This may bring us, in the ordinary course of farming, to the month of August.

Now the dung, according to the practice before described, has been previously carried out and laid in large house in the field. where it has undergone a certain degree of fermentation. Should this not have tal ea place sufficiently the heaps must be turned. so that the dung may be brought to a tit state for use.

The dung is now conveyed to the land in carts from the heaps, the carts being driven along the ridges. It is dragged out roin cy, the ridges are divided by turrows run across them; into rectangular spaces each But in general, the eye and practical hoondrag out and deposite the heaps in the quan- the soil:

tity and with the accuracy that may be required.

a rose the relys, by means of light three. I regard looks. This operation should be d me with much attention, so that the dimer may be spread regularly over the range.

Close upon the work of the spreaders, the ploudes one to follow and cover the dung. This is done by gathering the ridge, so that; while it a plunghing covers the dure, the curvature of the ridge is increased

The dang being covered in this manner, and the raige raised, the land is to remainuntouched for a few weeks, so that the dung may be decomposed and incorporated with the soil. When the dung has been previone's fermantal in a proper manuely this incorporation will be completed in a very short time.

TI - land is non ready to receive what is cilled the seed-farrow, which is the ploughing gi en to is previous to the coeds being t g that of, lat the ploughing being very shat. 11, if has halle effect in raising the ridge higher.

After this final ploughing, and upon the surface now exposed, the seeds, usually of wheat, are to be soun, in the manner to her offerwards described. This generally takes place about the middle of September or later, and completes the important operathe wheat-seeds.

In this detail it e number of applying the dang has he in deer ded; but there is like-, wise to be a ne' level the manner of applying lime, when this sub tance is to be laid . upon the land in sammer-fallon.

There are two periods at which the hma may be applied,-either before the dung is laid on, or offerwards. In the former case, the lime may be laid on just after the land has been formed into ralges, and when it is ready to receive the dung-

kilns, may be land, down in heaps of about five carts each, at regular distances, upon the head-lands or where convenient. this case, it is brought to the farm as opporlarly.

from the cart behind; sometimes two carts and two men may be appointed for each heap, the one man filling the cart at the

behind by the workman with the dung-dragt dang is to be great upon the ground, and

Butfrequently the dung is first spread, and the lime is not laid on until just before giving the seed-furrow. This answers very across then; into rectangular spaces each giving the seed furrow. This answers very space, receiving its allowed quantity of dung, well, provided the land has lain a soluciont time after the dung has been spread, so ledge of the workman, will enable hum to that it may be decomposed and mixed with sting of awasp on lies or and a second second

These details have an especial reference to the stiffer soils, which are those on which: So or diversing, who may be females or the ammer-failow is generally processing led, then spread out the dung all the process of cleaning is more easy, and the process of cleaning is more easy, and the animer-fallow is generally practised a When the lighter soils are to be fallowed, there is less legard of serious interruption from the state of the weather. The only. variation with regard to the lighter soils that need be referred to, is in the first spring-ploughing. In the case of such soils this doughing may be given at once across, and the process of harrowing and cleaning then commenced. This is precisely the manage; ment pursued in the case of turnips and similar fallow-crops; so that, when the harner comprehends the operations of the summer-fallow thus far: he is acquainfed with the manner of preparing the land for an extensive and important class of plants:

In the preceding detail, the ordinary ope- .. rations of the summer-fallow have been described; but the nature of the seasons, the be cradicated, and other circumstances, produce variations in the course of manage-The first ploughing the ridge is again the relations in the rouse of management, which, however, it is not necessary that of, but the ploughing being very shall to rule, but are best determined by the judgment of the farmer, as the cases themselves arise. A more important purpose is served to the student of agriculture by pointing out to him the manner of managing the summer-fallow upon approved principles. Knowing this, a little experience will soon show him how to adopt those variations of, tions of the summer-failow and sowing of other circumstances in a realother circumstances may render expedient....

> The process of the summer-fallow, conducted as it should be enables us to effect the tillage of clay-lands in a manner calculated to eradicate weeds, and fit the land for bearing a lengthened rotation of crops.

After a complete summer-fallow, the land is seen to be in the best order which circumstances will allow. It acquires that mellowness, indicative of fertility, so familian. to the eye of the farmer, yet so difficult to be described. It is frequently observed by, The queklime, is it is brought from the farmers, that clay-lands in this climate get into an adhesive, and, as it is termed, a sour state, by the long repetition of crops. giving them from tune to time the mellow-ing influence of a summer-fallow, during, this case, it is brought to the farm as oppor-twhich weeds may be extirpated and the tunity offers, and slacked slowly and regularities applied in the most beneficial manual larky. When we are prepared to spread it upon storing the fertility of the soil and fitting it the ground, a person with a broad-pointed to yield an increased produce in succeeding shovel is appointed to each heap. He fills wears. One advantage, too, of the summershore is appointed to each heap. He fills years. One advantage, too, of the summer-less cart, drives it along the ridge, and fallow, not to be disregarded, is, that it ditoking it out with his broad-comied shovel mitable the labour of tilling a farm more regularly throughout the season."

RECEIPT FOR THE CURE OF GALLED heap and the other spreading the lune upon BACKS of Horses.—Apply white-lead mixed with milk. Should this fail, and boils begin. Both men and horses sometimes experi- to swell up near the part which has been. cace injury from the caustic efficies of the chafed, charge it for a small quantity of lane, especially when the weather is most; slacked lime sprinkled on the galled spots. The face of the man man be deterded by a twice a day, till a crust is formed, and give the face of the mon time be colored by a twice a day, till a crust is formed, and give then handkerchief, and the back of the horse soine salipetre. An ounce should be covered.

When the time is spread, the land runer sprinkled on his hay daily. This is often to immediately barrowed to incore case the lane with the such. This horized done, the at the time he was galled. When the skin dang is to be stread upon the ground, and is healed, keep it always blacked with a into heaps, as nearly as possible of equal covered by the plough in the manner before mixture of tailow and burnt cork till the size, and at equal distances, in rows along described:

har grows. This will often bring hair of each ridger. Sometimes, to ensure accurate But frequently the dung is first spread, the original colour. If cork cannot be proposed. cured use alder coal-E # xe

FOR THE CURE OF A STING OF A WASP OR Bir.—Ammonia, or that called "Spirit of Hartshorn," is an effectual remody for the AGRICULTURAL PROTECTION.

TOWNSHIP OF ESQUESING.

tion signed by several respectable free. holders. The object of the meeting is so clearly explained by the subjoined Petition, to both branches of the Legislature, that it hopping to have occur advanced in foregoes the necessity of any comment on That free trade must from as very our part.

which takes place on the first Monday in all times freely open? January next.

up the question with spirit, at their next, the interests of the uniters or manufacturers annual meeting. The boon which has been of flour, and of the forwarders on the takes, so long withheld, is now within our grasp, canals, and treets or British America,-in if all that are interested be united and true the maxim be true with which me permon, that a certain quantity of oxygen, in some to oxide the maxim be true with which me permon, that a certain quantity of oxygen, in some to oxide the maxim be true with which me permon, that a certain quantity of oxygen, in some to oxide the constitution of the to each other.

under every wise government, and in every ed by them, are now his pad to Bream as. In vegetable fibrine, well-regulated state, been uniformly con- Canadian flour; and it is a pasent that, in there are contained: where stated states of primary importance, canadian flour; and it is apparent mai, in saidered as a measure of primary importance, reality, the removal of that protection, which and the neglect of that encouragement, in every well-governed state, is deemed essential to the support of its agriculture, has teemed a serious error in those who preside sential to the support of its agriculture, has over the administration, and an absurd ano- been no room whatest hand, it is evident ler, while, on the other hand, it is evident policy.

ties existed in Canada on the unportation, unimported, 2 territorial trades, manufactures, ed, on an average :from foreign countries of flour, wheat, and rades whatever within the colony. other grain, on live stock, and on beef and and professions whatever within the colony. pork salted.

vincial Logislature, and authough each suc-t which is a feel the whole Prevince, and that I have Brush Isles, farmers very genore-cessive Parliament concurred in the necessary product it is equally a breach of fath, and boardity fally, contract with black-smiths annually sity of affording that protection, by today it is equally a breach of fath, and boardity fally, contract with black-smiths annually.

in this Province; and yet the farmers here

A public meeting was held lately in the trade, and, 2nd. Because it would be pre-duct, as will allord a competent protection above Township, called in due form by the judicial to the interests of the first of the C andhan farmer, at least equivalent manufacturers of fluid, and of the form rider to that empoyed by the same profession in the respectable free. America.

> That the former of these objections is so palpably absurd, that the petitioners cannot nature, be essentially recurrent; but what reciprocity can exist between the Camdian

Agricultural Societies should also take that the protection would be prejude as to possibly entertain no doubt), viz.: that agri-"That agriculture, including both the Calcure is the necessary basis of all manutillage of the soil and the grazing of cattle, factures and commerce, it does not appear, That its encouragement has, therefore, of the millers of Rochester, (New-York), when reduced the revery wise government, and meyers that millions of barrels of floar manufactur- lewing series:to a demonstration, that every encourage. oney. That previous the year 1632, certain dulinest given to agriculture must have an immediate, a reciprodice of an equally furnished in Canada on the manufature.

That even although it were admitted that consequently, a temporary scarcity in the concitational the applications is now accorded to the formation of tat in the animal body is a Province, and act was passed in that year, to your personners respectionly crave your in solle, and this as absolutely the same incalled the "Canadian Trade Act," which I monitored formation of the formation in plants takes place; gave free admission to all foreign agricultural. Province has been emphasized to that it has been emphasized to that it has been emphasized to the food. And this expertation of oxygen from the electric produced the passing of that act ceased to the recommended as such by the Mother is given out in the same forms as that which operate, and when abundance, and otten a superabundance, of agricultural produce occurred in the Province, this act was still allowed to continue, although protected in was still allowed to continue, although protected in was repetitedly solicited by petitions to the Province dependent upon agricultural purchance and although each such that are now more than vincial Legislature, and although each such that a term remarks the aggregate cossive Parliament concurred in the neces.

Province has been emphasized to that the solic formation in plants takes place; which it is a contact to the formation of oxigen from the electric formation of the solic formation of the formation of the

That the only reason which the peritoners | May it therefore, please your Honourable are aware or having ever been assigned to. House, to adopt the necessary measures for May at therefore, please your Honourable withholding the projection now craved, are importing such a duty on the importation, two, viz.: — 1st Because such protection from abroad, of grain, flour, live stock, fresh would be repugnant to the principles of free, and salted meal, and other agricultural pro-

And your Petitioners will ever pray, &c.

From Liebig's Agricultural Chemistry.

Whatever views we may entertain regarding the origin of the fatty constituents We would however, beg to suggest the larmer, who dare not enter a market in the of the hody, this much at least is undenipropriety of a similar petition being drawn Salter, which then paying a daily of holdess able, that the herts and roots consumed by up, and presented for signatures at each than 25, and so make a 70 or 50 per ce at the cow contains no butter, that in hay or Town Meeting throughout the Province, the markets of hother had be of the United to them the other hadder of ozen no buckets extent which takes place on the first Monday in the track to be the line are at that no bog's lard can be found in the potation of the first Monday in the state of the line are at that no bog's lard can be found in the potation of the line are at the first monday in the first food. toe refuse given to swine; and that the food of geese or fouls contain no goose fat or, capon fat. The masses of fat found in the bodies of these animals are formed in their organism; and when the full value of this fact is recognized, it entitles us to conclude that a certain quantity of oxygen, in some ents of their tood: for no fat could possibly be formed from any of these substances.

The channel analysis of the constituents, is a perpetual source of national wealth and that the approximations have any formation of the fined of the gram avora shows, in they prosperity, and the necessary basis of all either metals of measure. That in point of clearest manner, that they contain carbon, manufactures and commerce. when reduced to equivalents, yield the fol-

In vegetable fibrine, albumen, and caseine

For	120 eg. car.	36 eg. öxy.
In Starch	120	100
In cane sugar		110 - "
In gum		110 ""
In sugar of milk		120 " ul-mi
In grape sugar	120	140

Now in all fatty bodies there are contain-

For..... 120 eg. carb, only 10 eg. oxyes

That in consequence of a casual, and, there implies past by be some ground for There is, therefore, but one may in whicher consequently, a temporary searchy in the concilaring the apprendict is non-amoded the formation of fat in the animal body is a Daniel of the concilaring the apprendict is not always and the solution of the solut

sity of affording that protection, by totage it is equally a breach of Lata, an manager and, contract with older-solutions for impossing resolutions for impossing managements of the majority—and a solicism in practice to for their work. Near Edinburgh, farmers and an adequate-duty on United States secrete the interests of the majority—and project, pay about three pounds per amount for each a produce of fostering a previous and of centres a pair of losses, constantly kept at work, in-That an extraordinary impetus in every the fostering a present and course a pair of licises, constantly kept at work, including fostering a present and course a pair of licises, constantly kept at work, includent fostered in the Union, and especially timpolities to suppose, that either manufaction in the Western States, in the production of manufaction of the condition of the c wheat, and rearing and fattening of pork tures or commerce can permanently flourish, In Scotland, these horses, ploughs, and: wheat, and rearing and fattening of pork
That it it is impetuse has been crused to a
certain extent by the prudent and encour
raging system of protection afforded by that
Government to agriculture, it has unquestionably been not less so by the injudy is
not infatuated privation of that protection
in this krounce; ; and yet the farmers here

the solution permanently flourish, the cartes product the year. In Canada, the charges of a
culture—kupp it is, and all substitution
to agriculture, it has unquestionably been not less so by the injudy is
the production of that protection
in this krounce; ; and yet the farmers here

the solution permanently flourish,
the cartes age constantly kept at work throughis no in 13 to 13 to 13 to 13 to 14 to 24 to 25 That your Petitioners anxiously hope that of making annual contracts should be inhave, by the ignorant and unjecting, been your Honourable House are but too sensible of making angual contracts and unjecting, been your Honourable House are but too sensible of making angual contracts and unicolarity and the process in of keeping according to the process in the not being able andra agracing disparity, indicate our production of the privation of states, and the accessity of keeping access to compete with these of the United States. That protection which they formerly enjoyed, county.

TO KILL WEEDS.

Is there any manure that will kill weeds ? is a question not unfrequently put. Will nitrate of roda, or nitrate of ammonia, or guano, or urates? That such questions should be asked, proves one thing at least, that there is a general desire to know how to extirpate weeds. We wish we could add that they also indicate some acquaintsince with the rudiments at least of vegetable physiology.

Weeds, like other plants, have each their peculiar constitution, prefer certain kinds of food and perish on the application of others. We have seen a pound of nitrate of soda administered to a Scakale plant without visible effect; half an ounce would probably destroy a Rhododendron. Common stable manure is prejudicial to Coniferous plants, and in overdoses will kill them; an oak feeds greedily upon it. So it is with weeds. oak feeds greedily upon it. So it is with weeds. Excessive doses of salt will destroy all ordinary vegetation, weeds included, but promote the growth of asparagus in a most remarkable degree, thus proving itself to be a poison to one plant and a nutritious food to another. But salt cannot be used in large doses to extirpate weeds generally, because some, like the asparagus, may flourish under its action, and most crops will certainly be destroyed by it... Professor Henslow succeeded in destroying moss and weeds on gravel walks, by means of corrosive sublimate, green vitriol, and blue vitriol, especially the last. But corrosive sublimate destroys every living form of vegetation, as well as the weeds; and the two aging the subsequent growth of many sorts of plants, and so promoting the vegetation of weeds rather than destroying it,

- In practice, these chemical agents can only be employed for the destruction of weeds in certain epecial cases, such as the asparagus, which thrives under doses of salt, which kill most other plants; or as tobacco, which feeds greedily upon quanti-ties of nitrate of soda, which would destroy any ordinary vegetation. In general, we must look to other means for ridding ourselves of trouble-some weeds, and we shall find those means in industry and common sense. The two separate are good things, but they are better mixed toge-ther. The plain and obvious rule is to pull weeds up as fast as they appear, and while still in the state of seedlings. Then every plant that in the state of seedlings. is removed is effectually destroyed, and leaves no young ones behind it. Any boy, at a half-a-crown a week, can be taught to distinguish them: and if the plan-is persevered in, there will very soon be nothing for the boy to do. Strict attention must, however, be paid to their thorough extirpation when young; it will not do to pull up almost all, and to leave the remainder to seed for in that case the labour has to be all gone over again.-Loudon's Gardeners! Chronicle.

AMERICAN TARIFF.

Wz were lately presented with a reprint of an official copy of the new Tariff law of the United States, but are able only to give the following extract which, has a particular bearing on the agricultural interests of British America:-" On beef and park two dollars per one hundred lbs.; onicheese, nine cents per lb.; on-butter, five cents per lb.; on lard, three cents per lb.; on wheat-twenty-five cents per sixty pounds; oats, ten cents per bushel; rye, fifteen cents per bushal ; wheat flour, seventy-five cents per one hundred and twelve pounds; potatoes, ten cents per linghel."

R will be seen by the above scale of duties, that the agriculturists of the United States are sufficiently protected from foreign competition: indeed, the duties on many articles are so high that they will amount to a direct prohibition of foreign produce. It is only natural and reasonable to expect that other agricultural: countries, who have extensive intercourse with the United of broken setts on hand:

States, would meet them on their own ground and reciprocate a scale of duties to be levied on the produce of the soil and industry of the United States flowing into theirs.

American Cheese, has been sold within the last few weeks, in the Canadian market, for 73 cents per pound, one and & cents less than Cana. dian cheese would be admitted into the market of the United States!! About two weeks since we saw upwards of eighty head of horned cattle, principally oxen, purchased in the State of Ohio, for \$26. per pair on an average. We would judge each beast to weigh on an aggregate 600 lbs. nett weight, making the original cost of each beast a fraction more than oxen of the same weight would be admitted from Canada into the United States market!! These are incontrovertible facts and argue the necessity of immediate steps being taken by the powers that be, to levy a scale of duties on these articles commensurate with the importance which the subject demands.

TO OUR SUBSCRIBERS AND AGENTS.

WE take this opportunity of tendering our sincere thanks for the noble manner in which you came forward, in support of the only publication devoted exclusively to the advancement and protection of Canadian Agriculture.

We have with this number fulfilled our engagements to you, and in conformity with our TERMS commence the Second Volume without a single subscriber. We trust however, we have done our duty so far as to merit your future patronage and support. Our success will depend much upon your exertions, which we hope to

THE CULTIVATOR in future will be more uniform in its appearance, and from the increased facilities which we have at our command, will be more select and useful.

A REQUEST.

WE are led to believe that our journal will receive an enlarged circulation the ensuing year, and it is desirable that we should commence an edition sufficiently large to supply the demands during the whole year. Our Agents will do us a favour by informing us, on the receipt of this, the probable number of copies that each may toquire during the next year. Of course they can not always form a correct estimate, but by giving us their opinion we will be better acquainted on the subject, than if we had no grounds to form a conclusion. A Cincular will be issued in a few days which will be sent to all our Agents.

THE BROCK DISTRICT CATTLE SHOW .- Notice should have been taken of the above Show In our last, but the remarks we prepared for the occasion were unavoidably left out. The subject shall be attended to in our next.

III Some of our Subscribers have complained of not receiving certain numbers of our journal, it such be the case they may be had by ordering them through our Agents: and any that wish the work bound complete and are deficient in numbers may be supplied, as we have a number.

From The Cobourg Star.

COUNTY DURHAM AGRICULTURAL SOCIETY.

The Autumnal Show of this Society took place at Bowmanville on the 18th Instant, for the exhibition of Stock, Grain, &c., when the undermentioned Premiums were justly awarded to the respective candidates by Judges from the Nor. thumberland and Whitby Agricultural Societies,

illumbettand and 14 moy righteditoral o	-		
	£.	z.	d.
Best Brood Mare, with foal at foot, T.			
	2	0	0
Second bost, John Frank	1	ă	ě
Best Milch Cow, R. W. Robson	ô		ā
Dest bluck Cow, R. W. Rouson	7		ŏ
Second best, & Broadfoot Best Two Year Old Heifer, J. Middleton	÷		
Rest Two Year Old Heller, J. Middleton	ř		0
Second best, Henry Munro Best Pair of Two Year Old Steers, M.	Ü	15	Ų
Best Pair of Two Year Old Steers, M.	_		
Joness	1	5	O.
Joness	0	15	٠0′
Best year old Heifer, M. Joness	1	. 0	0.
Second best, John Belwood	0	10	O.
Best Pair of one year old Steers, J.	,		-•,
Blackburn	1	0	٨
Second best, J. Broadfoot		.1Õ	
Description of Middleson	ĭ	10	
Best aged Ram, J. Middleton,	:		-
Second best, R. W. Robson	÷	0	
Best Shearling Ram, J. Belwood	1		0
Best Tup Lamb, John Gibson	Ų	15	
Second best, do.	0	10	
Second best, do	1	Ü	0
Best Pen of Three Ewes with their lambs			
John Gibson	1	5	0
Second best, J. Belwood,		n	0
Best Pen of Two Ewes with their lambs,	_	-,	_
not full bred, J. Middleton	n.	15	Λ
Second best, M. Joness		10	
		10	
Best Boar, John Beavis	7		
Second best, Robert Brown	Ų	15	ų.
Best Breeding Sow, R. W. Robson	ĭ	0	
Second best, George Wylie	ū	15	
Best Acre Swedish Turnips, J. Belwood	1	10.	
Second best, Dickinson Best Sample of Fall Wheat, S. Dickinson	0	15	0
Best Sample of Fall Wheat, S. Dickinson	1	10	0
Second best, I. Blackburn	1	Q	Q
Rest Sample of Spring Wheat, John			
Smart	1	0	0
Second best, John Lyal	ñ	Õť	Ō
Best Sample of Barley, Robert Beith	ř	้	õ
Canad have Y Drandfore	ñ	ากั	ñ
Second best, J. Broadfoot Best Sample of Oats, R. W. Robson,	ï	74	3
Best Sample of Cais, R. W. Robson,	7	70	ň
Second best, Neill Gray	Ú.	10	U

Notwithstanding the very unfavourable state of the weather which prevented many from at-tending, the assemblage of members of the Society was very numerous, and the exhibition of Stock and Grain, marked for numbers, variety, and of a decided advancement in improvement, evincing most forcibly the beneficial effects produced by the establishment of such Societies in

The business of the day being concluded, upwards of forty gentlemen sat down to an excel-lent dinner, provided by Mr. Hynes, after which several loyal and appropriate toasts were drank, and many judicious remarks made. Arrange-ments having been entered into for a Ploughing Match, to take place at an early date, the party separated with feelings of much satisfaction and!

MORGAN JELLETT;

PORT HOTE, 22d October, 1842.

TORONTO MARKETS; For the Month ending 1st November, 1842'

1	ફ. હે. વકા લંકા
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	Chimesi
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