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AGRICULTURIST CANADIAN

Transactions

BOARD OF AGRICULTURE OF UPPER CANADA.

VOL. V.

TORONTO, FEBRUARY, 1853.

NO. 2.

AGRICULTURAL ADDRESS.

The annual meeting of the Township of PORTLAND AGRICULTURAL SOCIETY was held at Spike's Corners January 19 1853, who the following address was delivered by Angus Came aon, Esq., of Kingston, the President of the County Society. The practice of delivering prepared addresses at meetings of this kind, is, we are glad to observe, on the increase, as it tends to give a character and usefulness to the proceedings, which they could not otherwise possess. There are many points in Mr. Cameron's very useful p and practical lecture that have a general interest and application :-

GENTLEMEN, -The indisposition which has hitherto prevailed amongst practical farmers generally, in this section of the country, to become members of Agricultural Societies, is matter of regret to the few of them who entertain high opinions of the advantages which such societies are capable of affording. This indisposition is but too plainly verified by the facts, that while some of the Townships maintain no society of this description, the annual exhibitions of those which do, are supported and attended but by a small pro-portion of the farming community. The County Show, held in the month of October last, although a great improvement on past meetings of the kind, as far as regarded horned cattle, sheep and swine, was quite a falling off in many respects, and especially as regards the number of agriculturists in attendance, and in the quantity of grain, dairy produce, and home wollen manufactures, although the amount distributed in premiums exceeded the average of former occasions of the kind. The office Beaters of the County Society, for the past year, earnestly desirous of a change for the better in this respect, are now making every exection in their power to awaken a more lively and extended interest in the great work of agricultural improvement in the several townships throughout the County. It has frequently been urged as a plea for not having joined such societies in times past, that the provisions of the Agricultural Society Act were not known generally in the country, and especially

societies, to the last days of January and February. To remedy this in future, the act has been put into possession of the several township authorities, and there is yet good time for the people in each locality to avail themselves of its advantages for the current year. It has also sometimes been assigned as a reason for refusing to become members, that although the intention of the law was worthy of approbation, the management of the society was bad. In reply to this it may be stated that it is very difficult, if not impossible, to please all parties in a matter of this kind. Improvement in this respect may perhaps be required as much as in our farm practice, but certainly it is not the way to improve in management of any society to give it up altogether. The people have the management in their own hand, as once a year they se-lect their office-bearers; the rules and regulations are subject to su alterations and amendments as the membe - may think proper, so that past errors may be · ided, and progressive improvement from new socices of information, and the past management would be conterring a benefit on the country by being present at all the deliberations and meetings, with a view to secure all desirable amendment. On the same principle on which agricultural societies have been pronounced by competent authority, to be advantageous to the farming interest in the three separate portions of our mother country, we may safely admit they could be rendered so in Canada. There the practical tenant farmer, under heavy rent, the man of science, and the wealthy landlord, contribute to their support. Professor Johnston, in his "Notes on North America," says of that continent that "as to the condition of agriculture as an art of life, it cannot be denied that in this region, as a whole, it is in a very primitive condition." He also says that "little knowledge of improved agriculture has hitherto been diffused in Upper Canada. In revenge, the farming class are not, as a body, regarded with much estimation by the other classes of society. They do not assume their proper position among a community where, if they enar section which limited the period for sub- only knew how to use it, all political power is in scribing as members, of township and county reality in their hands."

It would serve no good purpose, on behalf of the farmers of Canada, to deny this charge on pa-per; it is to be hoped, however, that ere many years revolve a different account of our condition will be legibly written, more generally than at present, on the face of our farms with the plough corroberated by the presence of comfortable and convenient housing for man and beast-improved breeds of live stack, in good keeping-a more general use of labor-saving implements-more attention to a better system of operations, and the rotation of crops-draining and manuring of the soil-all of which, agricultural societies, wherever maintained, have been instrumental in producing

In the following quotation from the same author, it will be observed that he anticipates at Canada than he witnessed on his visit here in

1849:

"The superior class of settlers, of whom so many are scattered over Upper Canada, will greatly facilitate the adoption of such means of improvement as are usually employed by Agricultural Societies."

This anticipation of improvement, by means I tion, and is a strong recommendation to every farpected author we are more indebted for having cerned—the examiners and those examined thus pointed out to us our wants, and hopefully directing us towards the means of supply, than if by a more flattering account he had induced us of their varied duties have Societies done more to abate our exertious.

The truth of the Professor's remarks is verified; in the following extract from "Scobie's Almanac" for 1853, showing the average produce per acre in Upper and Lower Canada, omitting the fractions :-

| | | | | Մ. C. | L. C, |
|-------------|----|---|---|----------|----------|
| | | | | Bushels. | Bushels. |
| Wheat, . | - | - | - | 14 | 7 |
| Barley . | - | - | - | 20 | 15 |
| Rye, | • | - | _ | 12 | 7 |
| Pease, - | | - | - | 14 | 7 |
| Oats, | • | - | - | 25 | 15 |
| Buck Wheat | t, | - | - | 14 | 10 |
| Indian Corn | · | - | - | 24 | 17 |
| Potatoes, | • | - | - | 64 | 60 |
| Turnips, | | - | - | 212 | 95 |
| | | | | | |

It is difficult to acount for the smallnes of this average yield per acre in any other way than by admitting that the average of our farming practice is bad; or by libelling our climate or soil, if not both, and asserting that in one or both lies the deficiency-and this allegation is annually refuted in the abundant crops raised by the skilful portion of our farmers throughout the Province. The traveller very often sees, in the most fertile and best cultivated parts, striking illustrations of the difference between the good farming and the bad on adjoining lots of nearly equal virgin quality; the one farmer tendered prosperous and affluent by the luxuriance of his crops, while his neighbor, in poverty, blames the climate and soil.

The proceedings of Agricultural Societies, their exhibitions and competitions, and the public decisions of their judges, have a tendencyto improve the judgment of all attentive observers on such occasions; and to farmers who are dealers in live stock and farm produce, this alone is of importance, as enabling them the better to know the good and bad points of their own properties, as well as those of others. This improvement of the judgment in discerning the better from the worse, leads to an appreciation of excellence, and that appreciation by farmers encourages societies, as well as enterprising individuals, to bring superior animais, seed and implements within their reach. One farmer alone, however, desirous of improving his live stock, can seldom afford, in the present state of our progress, to purchase an early day a better state of things in Upper and keep up a first-rate male animal - but in a locality where excellence is duly appreciated, the demand from his neighbors might render him good returns for money thus invested; and at the year's end it is an important addition to the value of farm stock that superior males had been supplied to all the female breeding animals; indeed, few of the farmer's outlays yield so profit-To cause extensive and minute able a return, of Agricultural Societies, is worthy of our atten- i inspections and comparisons of whole farms, and of the various methods in practice upon them, mer, especially, if not to every resident of the and to sum up the several results, duly reporting Province, to countenance by his presence, and to thereon for the public information, as practised aid by his subscription the formation and proceed- by many societies, cannot fail to excite en ulation, ings of such societies. To this learned and res- not only on the part of those immediately conthe society to which they belong, but also throughout, the whole neighborhood; and in no branch good in the mother country than in the degree of perfection to which they have been mainly instrumental in bringing the construction of the plough and thus improving its operations.

> The ploughs generally in use in this vicinity at present may have been fit instruments when there were no fields clear of stumps and other obstructions, and even yet may be indispensable for some portions of many farms; but they are unfit to cut and properly turn over the fairow slice as required on clear sod land of an even surface; as proof of this, witness our County Ploughing Match, in October last. The ploughs ing to which was awarded the first premium, was even in the estimation of the ploughman, very bad; the fault evidently was not his, but that of the implement; each furrow slice standing nearly upright, with an open space between them; while all admitted the workman understood his business well. One good result is hoped from that day's ploughing, as the farmers there generally agreed that we have not the right sort of ploughs for good work in clear fields and doubtless many will turn their attention to quarters in which they may be found

The absence of a good plough factory, within a convenient distance, has greatly retarded our progress hereabout in ploughing; if we had some of the ploughs made by the Messrs. Mac-Sherry, near Queenston, or by the Messis. Mc-Tavish, of Bowmanville, the workmanship at our ploughing matches would soon show a different finish. That these remarks on the plough makers and ploughs supplying this section of the country for some time back, may not appear unfounded, it may as well be stated that many farmers have, during the last season, made great exertion to find in Kingston or the surrounding townships, a plough capable of cutting a rectangular turrow slice, nearly 6x9 or 7x10 inches, and turning the same properly over close against the preceding one at the desired angle of 45 degrees, leaving each exposed face to measure nearly the same, say six or seven inches. Something near this is insisted on at ploughing matches, and should any vender of ploughs consider himself wronged by these remarks, or deem them untrue, he will be entitled to reasonable satisfaction, as well as an increased demand for his ploughs, or his giving proof that they are fit to do the work as required. The decision of judges in awarding premiums for the best ploughs at societies' exhibitions, without any trial of the work they are capable of performing, may sometimes happen to be right, and may also often happen to be wrong; the surest test of their goodness is a trial in the ground by a competent ploughman, and a steady team; and so often as mistakes of this kind are made, injustice is done to the more deserving mechanic, the sale of the interior article is promoted, and that of the superior is disconntenanced. And this injustice is not only the bad consequence of these erroneous decisions on ploughs—they also mislead farmers to pulchase the worse instead of the better implement; and have a tendency to lessen the confidence of both mechanics and farmers in the proceedings of such societies. The ordering of ploughs from a great distance, although perhaps a better alternative than to continue the use of a bad one, is by no means so safe for the farmer as a home supply, if equally good, because where the mechanical skill is wanting to make a good plough, it may also be wanting to keep in order, should it happen to meet with an accident; from this want of mechanical skill, so much felt in l this neighborhood, the utility of a society may i be understood, as its exertions would be more efficacious to supply the want, than would in dividual efforts. It may be remarked by some that as our societies have been for many years in operation, they should before now have supplied this want; but again, how can practical tarmers expect to find their wants thus supplied unless they take some pains and contribute the needful means to keep such societies in successfull operation; which as is stated in the out set, they are very apathetic in doing. Let this now be remedied as soon as we can, by each farmer contributing his dollar towards the society of the township to which he belongs, and another towards the County Society. Let all attend their ! meetings, elect officers and directors in whom I they have confidence, and under the new act of | Parliament, adopt such rules and regulations as of large size and of the finest flavor, it is of to the majority may seem best suited to promote importance to keep down the number, by the the great object, not only of agriculture but of early removal of such as are too thick and infegeneral improvement; not narrowly looking for rior. Large berries can be obtained by carefully an immediate cash return in premium, but liber- removing by the fingers, early in the season, all

association, which is designed to be instrumental in disseminating a spirit of improvement.

The meeting was very attentive during the delivery of the address, and the proceedings highly satisfactory to all present. Thanks were then voted unanimously to Mr. Cameron for the pains taken by him in visiting the meeting, and for the practical character of the lecture which he had delivered, and the meeting adjourned.

J. SPIKE, President.

A. Spike, Secretary.

CULTIVATION OF THE GRAPE.

In the last number of the Plough, an interesting description is given of Dr. Underhill's vineyard, the largest in the State of New York, near Sing Sing, on the Hudson. It consists of about 30 acres; three-fourths are planted with the Isabella, the remainder with Catawba, Alexandria, Norton's Seedlings or Lady Grape, Early Black or York Madeira, Croton Cluster, &c. The Doctor, after careful and numerous experiments, has arrived at the conclusion that the Isabella is the only kind admitting of safe and profitable cultivation in open vineyards in the northern States. The Catawba is an excellent variety, but it will not properly ripen in more than one year out of three. It is stated that the Doctor's vineyard, which is favorably situated as regards the New York market, is far more profitable than if planted with the best sorts of apples and other fruit; and the cultivation, manuring, gathering and marketing of the produce are conducted on strictly systematic principles. We have seen the Isabella grape flourish well in open ground, in several places of Upper Canada, and recommend it to the attention of such as feel interested in possessing a good garden.

The grape naturally covets a dry, warm soil, if a loose limestone all the better; -indeed lime in some form seems essential to the grape. It is a capital practice in planting to dig deep trenches, and fill in with fresh soil, all soits of vegetable rubbish, mixed with stones, uncrushed bones, &c. The trellis system is the neatest and best, admitting of easy culture either by the plough or hoe, and exposing the leaves and fruit to the full action of sun, light, and air-points of indispensable importance. In both spring and summer pruning, "Spare the knife and spoil the grapes," is known by all practical cultivators to The cutting away of be a sound aphorism. leaves, however, for the purpose of admitting light and heat to the fruit, should be very cautiously performed; but in order to secure bunches ally contributing their mite to the support of an | the smaller ones found on the same bunch.

CAVAN AGRICULTURAL SOCIETY.

We have been requested by the Directors of this Society to publish the Address delivered by the President at its late annual Exhibition. The day was wet and unfavorable, yet the number present was very considerable, and the display of horses really good. The show of sheep was fair, and quite an extensive assortment of domestic woollens was exhibited, much superior to anything seen before. There are many points of the address that will interest our readers generally.

ADDRESS
OF JOHN KNOWLSON, ESQUIRE,
PRESIDENT OF THE CAVAN AGRICULTURAL SOCIETY.

C. .. rlemen, - (For I believe there are no Ladies present, having been prevented from attending, no doubt, from the unfavorable state of the weather, which is runch to be regretted,) In conformity with a recently adopted By-law of your Society, the duty of delivering a written address on subjects connected with the science of Agriculture, devolves upon me as your President; but I am sorry to say that I come before you very badly prepared for such an important task. I might begin and tell you that I have been pressed for time, and make other, what may appear to me very valid excuses, yet I confess that although I should be telling you the truth, and nothing but the truth, these would not justify me in your eyes for having neglected a duty which you had a right to expect me to perform; therefore, I consider it more creditable to plead guilty at once of a dereliction of duty, rather then attempt an excuse, and so throw myself on your mercy, ready to submit to whatever penalty the Directors of your Society may think proper to inflict. These ill-digested and hurried remarks I only commenced to put together last evening, and concluded this morning on the Show ground; therefore what I have to say is quite an abridgment and curtailment of what I had previously intended, so that I fear it will hardly merit the appellation of an "Agricultural Address." My will to serve you on this occasion, I assure you was good, but as I have before hinted, I have no reason to expect you to accept the will fer the dead, although I dare say you will agree with me that "wills" are sometimes looked upon as favorably as "deeds"; for instance if any of you were to inherit a nice hundred acre, cleared farm, with substantial and comfortable buildings, and other appurtenances, I feel satisfied you would think as highly of the testator's will as you would of a free deed given by a friend; of a hundred acres covered with hemlock or tamarac swamp; so you see that wills are really not always to be despised. However, do not let me lead you to suppose that when I said my will to serve you was a good will, that it ever entered into my head to "will" any of you a laim; no, no such thing I assure you, but my intention was in all sincerity to impart the best information in my power, in order to instruct and enable you to improve the farms you already possess; and if I shall be able to say anything at all that

may give me the least claim to your pardon for not doing better, for not taking more time and care, as I ought to have done, in preparing this address, I shal: feel myself your very grateful servant. Atthough, gentlemen, I am far from being a practical farmer, yet I assure you it is always a source of pleasure to me to study the science of agriculture. I have been in the habit tike many of you, of reading newspapers and various periodical publications on different subjects, and I declare to you mall sincerity, that I find more real satisfaction, read with far more zest, such papers as treat upon agricultural pursuits than in reading the matter contained in any mere political paper; for instance such papers as the Canadian Agriculturist, the Genessee Farmer. and the like, any of which may be had at the cost of about half a dollar a year, and I believe it would be to the advantage of every farmer to introduce an agricultural paper into his family; in these you read of the best system of hus-bandry, of the best breeds of different kinds of stock, of the most approved implements, and labour-saving machines for cultivating the soil, and reaping the crops and preparing them for market; in these you also find many valuable recipes, besides numerous useful and valuable hints well calculated to promote economy, comfort, and wealth, amongst those engaged in rural avocations; therefore I would strongly recommend every larmer to subscribe for and read attentively, an agricultural paper; and this need not prevent you from taking a well conducted newspaper for general information besides. Before proceeding faither, I would beg to be understood that what I have now to say in my imperfect and hastily got up address, is not intended by me, metely for a moment's amusement, or for no other purpose than merely filling up a portion of the time of this our exhibition day. No, gentlemen, my desire, and my intention is that the few hints I have to offer, should prove useful to you, and have the effect of producing practical results, viz., of promoting your welfare and pros-As I said before I am not a practical agriculturist, and therefore my remarks may be considered as worthy of but little regard. I can only say that I am presumptuous enough to persnade myself that although not a practical farmer. yet that my own pursuits do not preclude me from either making useful observations or noting down useful facts connected with farming operations when such present themselves conspicuously before me; and as I have frequent opportunities of becoming acquainted with the state of the markets for farm produce, &c., I am in some degree competent, I conceive, to impart at least a sprinkling of useful information; besides I think I am justified in believing that you yield some share of your deserence to my judgment on these subjects, or I should not so long have been honored with your confidence by placing me at the head of your Society, therefore what more I intend to say is meant for your advantage, and , offered freely and candidly. First, I would embrace this opportunity of congratulating you upon the beautiful and favourable harver with which you have been blessed; one of the finest perhaps we have any of us ever witnessed; and such a temporal blessing coming from the hands of the Giver of every good gift, demands from us all a

membering that He who gives them, can also either withhold them, take them away, or turn them into a curse instead of a blessing, should we fail either to appreciate or make a legitimate use of them. Which of us can properly call anywhat number of individuals collectively, with all power, can in truth say that such and such a barn full or gramary full of grain, or such a stock of fine cattle, are their own; that they are able of themselves, to protect them from destruction for a single moment against the power of Him who in His bountiful goodness permits them to enjoy them. The crop of wheat which you have just harvested with less hurry and fatigue, and with fewer hands than usual, is both abundant in quantity, and excellent in quality, and all that is required to crown your wishes in regard to this portion of your productions, is good prices; but I in this respect are destined to be realized. may, I assure you, fully make up your minds that the days of protection in the British market for what has been hitherto our staple agricultural production; viz., wheat, have passed away, in all probability, never to return; consequently we cannot reasonably look for much higher prices for this article than we obtain at present, except from causes which would be by no means desirable, viz., either from war or a failure of crop, in other parts of the globe, or some cause which would entail suffering or want upon a portion of our fellow creatures, soomewhere and therefore always to be deplored and never to be desired. us attempting to sit down to enjoy a sumptuous or dainty repast, while we knew that our next door neighbour was perishing of starvation; therefore when we learn as seems now to be generally understood, that the inhabitants of Europe and other parts of the world have been blessed as well as ourselves with a fair yield of breadstuffs, we ought to feel thankful on their account, as well as on our own. While on the subject of the wheat crop, our hitherto staple farm production in Canada, I feel it my duty to give you a word of advice, for it is now becoming a question among political economists whether we should much longer look upon wheat as our staple commodity for export. I firmly believe, gentlemen, that it is high time for every farmer to turn his attention more to other products than that of wheat; indeed I might enumerate a great number of farm productions, any of which would not only pay you better than wheat, but would be quite certain to produce them. I will first mention the article of butter which not only at present commands a high price, but is likely to do so for some time to come; therefore let me advise you to pay more attention to the dairy, both for butter and cheese, both of which are likely to command highly remunerating prices; and above all in this department let me entreat you not only to endeavour,

pure "thank-offering" to Him who bestows upon | meaning for some of you, (not so strong as some us all we possess in this world. Let us never butter I've tasted in my lifetime) but be deterfail to be grateful for such favours, always remined to make a good and superior article, in order that the character of Canadian butter and cheese may be raised and established in foreign markets. Butter at present is selling readily at 8d. per pound, and I know many farmers who have for years past realized handsome sums from thing we possess our own. What individual, or the sale of this article, even when it was but 6d. per pound; they considered then that it paid them their skill, all their genius, all their mere human, as well or better than wheat, and why it was that more attention was not paid to its production by a great many other farmers, with equal facilities, seems somewhat strange. I would next mention the article of pork; this is likely to pay well for some time to come, decidedly better than wheat in my opinion, and I consider it a matter for regret, and one I think of great oversight on the part of many of our farmers, that they should have allowed, during the past summer the number of their hogs to be greatly reduced by selling them to American jobbers. Every intelligent larmer, by reading an agricultural journal, and looking fear it is somewhat doubtful whether your wishes, into the state of their markets, &c., might have You easily foreseen, from the brisk demand for pork since last winter, and the prospect of an increased demand for it for lumbering operations, that the article would continue to rule high for some time, and to command good remunerating prices. But what is the fact which we have reason to deplore? Why, that many, very many, more hogs than ought to have been spared, have been sold in their lean state, taken away from the Province while many of our own farmers have not so much as one to fatten! To be plain and candid I call this bad management, or rather no management at all. But my observations in reference to keeping or being without certain animals, lead me to make Such a state of things would be similar to one of even a more severe remark than this; for I am convinced that the most casual observer cannot fail to be struck with the gross mismanagement on the part of some who call themselves farmers. You may possibly some of you take offence at my undertaking to administer such a rebuke on your proceedings; be this as it may, what I state, I do so under an honest conviction, and with the intention of doing you good, and promoting your temporal welfare; therefore take it as you will. For instance, how many occupants of farms have I seen within the last few years who would in one season have an overstock of horned cattle, and at a time, too, when such were of but trifling value, while the surface of pasturage, and quantity of winter folder was altogether inadequate for their support; the consequence was, that a great many of them died from starvation, and for want of proper care and attention, so that from such losses, such thinning of the number, and the thinness of the carcasses of the few that remunerate you well for the labour required to survived, the conclusions that were generally come to by their owners, (although very erroneous conclusions) were, that it was a bad business to aim at raising Stock, and so the following season generally found our perplexed and discomfited neighbours with scarcely a hoof at all. And then the same with regard to hogs; one year one of these men's farms,—mind you I do not say a farmer's farm,—would be literally for that word hardly conveys a strong enough overrun with the great number he would keep of

these animals, and when the season for slaughtering arrived in the fall, the prices, as might have easily been foreseen, proved by no means remunerating; he found that although they had devoured the best share of his potatoes, all his peas, and some other coarse grains, besides occasionally finding out some cracked or broken rails in his fences which easily yielded to a little pressure by these gentlemen from without and by which they found ready access to his fields of grain, often committing very serious depredations, that after all they were by no means so fat as was required for market, and when brought there only realized some 7s. 6d. to 11s. 3d. a ewt.; consequently he was a great loser, and all owing to having too great a number in proportion to his feed, and at a time when prices were extremely Here again he was led to jump at conclusions in the same way as he had done in reference to his horned cattle. He looked upon this tribe, in the first place, (and certainly with some show of reason,) to be at best but a "swinish multitude," and the result proved that he must have concluded that the sooner such a race of animals became extinct the better for himself, and most likely for every body else, for the following year would be sure to find him in the opposite extreme, viz., without one single grunter to grace his farm-yard or premises! Now this sort of mismanagement was nothing short of sheer folly, to say the least of it. Had he, as would have been more rational, kept each year a moderate number, and bestowed proper care upon them, how very different would have been the result.

What shall I say of such farm-holders as those who have told me within the last few days that they have not so much as a single pig to put up to fatten this fall for their own use, although I know that they poss ss all the facilities requisite for keeping a moderate number. I really believe that no epithet would be too severe for them; still, as I feel reluctant in calling them by hard names, I will content myself by giving them this simple piece of advice, viz., that if it should ever by any chance, happen to come into their heads to consider or decide as to what class of the human family they properly belong, or in what profession they are practising, by no means to imagine, much less conclude, that they belong to the farming class, for surely to the honorable title of farmer they have no pretensions whatever.

Why is it, I would ask, that one farmer succeeds so much better than another in his farming operations, where both commence with equal pecuniary means, and noder other similar circumstances, such as similarity of soils on their farms, distance from market, physical help, &c.? What, but because the one has had more practical experience, proceeds more systematically, exercises more forethought, is more industrious, always taking care to attend to each portion of his labour in its proper season, and the like, and performing such labour in a proper manner, while the other lacks these qualifications, and in too many instances neglects opportunities for acquiring agricultural skill and knowledge, when he might easily inform himself. Every farmer should endeavour to acquire useful knowledge, for knowledge is power, and therefore it is well worth every man's while to search particularly a system somewhat approaching to what I have

for such knowledge as bears upon his own profession. Now there is nothing more necessary on a farm than that each particular kind of work should be performed in its proper season: such. for instance, as attending to the destruction of noxious weeds and wild grasses in the summer fallow during the dry reason, securing the hav before the grain haivest commences, cutting the grain as soon, or even before it is quite tipe, getting it into the barn or well built stacks in its clear bright state as soon as dry, and if possible, not to allow it to remain in the field until it is either weather beaten or begins to shell out and waste: then when all the grain is so secured, and himself at liberty to cart out his manure, and sow his fall wheat, and after that have proper shelter prepared for all his stock, to protect them from the inclemency of the weather, seeing now that a rail fence is no longer considered a sufficient protection against the severe blasts of a long Canadian winter. The turnips, carrots, and manglewurtzels must also be seen to in time, and secured from the frost either in pits or cellars. then again when the good sleighing has fairly set in, a portion of the waster wal be occupied in taking produce t market, providing such quantity of firewood that a postion will remain over in a dry state until the beginning at least of the following winter, with a day now and then of relaxation from toil, spent in visiting relatives, friends and neighbours, and thus the rounne of all the farming operations go regularly on, the experienced operator taking care to the best of his power that the season for one kind of work shall never encroach upon another, and besides atways having an eye to his carriages and farm implements. to see that they are not left exposed to all soits of weather, but kept in a proper state of preservation. under cover, ready for use whenever wanted. After having hinten to you the favourable prospects that now present themselves to my mind for an increased demand for butter and pork, 1 must also include other productions to which you should turn your attention; for instance horses. Good horses are in demand in many parts of the Province, and their breeding should be properly attended to by all means; and our township has gained some celebrity already for the production of these valuable annuals. Sheep, both for the carcass and fleece, will no doubt yield a profita-ble return; and I may mention also amongst your grains, that of oats, and my ideas of the course now to be pursued as likely to be most conducive to the farmer's interests, is to portion out the farm into grazing, grain, and root departments in a more equitable proportion than has hitherto been the ease in this township, appropriating much less to wheat than heretofore; what land you do allot to wheat, till it in the best manner, and fail not to procure the best varieties of seed, thoroughly cleaned and prepared before sowing; that is, such a variety as has been proved by experience best adapted to the soil on which you intend to sow it, for some kinds are suited to high lands, and other kinds to low lands; some to light soils, and others to heavy. And again, with regard to the animals you keep; let the number be moderate, not too many nor too few, but let them be good of their kind, and see that they are properly taken care of; and by following

briefly endeavoured to point out, I feel satisfied that you will become gainers very soon to a considerable exte .; for one thing, your land would not be exhausted as it now is, by constantly growing wheat; and by this course, and following a system of rotation of croj s you would always have that portion of the farm which would be set apart for wheat, in good heart and condition for such a If I have been somewhat severe upon some of our careless indifferent farmers, I assure you I meant nothing personal, and I wish to be understood that, I by no means consider it a crime for a man to set out as an indifferent farmer who has not been brought up a practical agriculturist, or who has not had an opportunity of acquiring that skill and knowledge, so requisite for carrying on successful farming operations; but I do contend that when such a one undertakes the cultivation of the soil, he is justly chargeable with culpable negligence, or criminal indifference to his material interests, and that of the community at large, if he does not endeavour to learn from and imitate those around him who are looked upon as practical an 'experienced farmers, and who would willingly and readily impart their knowledge to their less informed neighbours; and the farmer is widely different in this respect from men in most other professions, for while he imparts his skill and knowledge to his brother farmer, in order to improve his condition, and make him wiser and wealthier, he does not in any way abridge his own means, or injure his own in-As I have observed; systematic plans are really requisite to success. Men who have not enterprize to plan, will have still less if pos-Few men do more than they sible to execute. intend to do, and there ought to be few who have not ambition erough to rouse their energies to accomplish what they have once deliberately plan-That man who is the mere child of circumstances, acting only as he is acted upon by his necessities, may enjoy a kind of Indian tranquility; with such men only, the march of improvement must stop in its course, and society fall back into a species of barbarism. That man who aims at nothing will certainly accomplish nothing. He that is content with a shanty will not likely ever possess a neat, substantial, or The man who is content comfortable house. with a shabby, dilapidated house, roofless barn, broken down fences and ten bushels of wheat, and five hundred of hay to the acre, will seldom find himself in a better condition; while he who plans to possess good buildings, permanent fences, and to see his lands ornamented with fruit trees, and covered with forty bushels of wheat, and two or three tons of kay to the acre, with life and a common blessing, will certainly accomplish his plans. Another requisite for the improvement of our advantages, is Industry. It is often literally true, that "the hand of the diligent maketh rich," and it always in Canada enables the diligent to possess constantly and plentifully the necessaries and comforts of life. To no class of men does the necessity of industry apply more than the farmer. He turns his own wheel of fortune more emphatically than almost any other class; those great and sudden turns of fortune which sometimes raise or depress others, lay raise up manufactories in the Province for numer --

quite out of his track. With firm foothold he climbs the ascent to competency; or with loosened energies he slides down the gradual descent to poverty. The eyes of the master or owner should pervade the whole establishment; his mind and his hands must be equally ready to do their appropriate work; his example should be such that no idler can feel easy on his premises; nothing more absolutely necessary than that the farmer's mind should be in his business. That man who is above his business is in danger of soon finding that he has got below it. Tha' farmer who devotes his mind and his energies to his farm until it is so far improved, that it elevates him above the necessity of constant labour, is the most independent and enviable character in our country; free from the responsibility of office and the toils and cares of a profession, he eats the fruits he has reared with more zest than can be realized by any other class. A good farm covered with flocks and herds and fruits is a truly enviable possession, and like Robinson Crusoe, the farmer is often "Monarch of ail he surveys." I have deemed it proper to mention on this occasion that it is my desire and intention to retire from the Presidency of your Society, so that you will soon be prepared and able to select from your officers, one better qualified to ful the post than myself. It has, I assure you, always been my desire to promote the interests of your society, but my occupation is such that I am frequently prevented from duly attending to the business and duties required of the President, and from performing it in an efficient manner; therefore I consider it an act of injustice towards you to. remain in such a position longer; and it would bea further act of injustice, as well as ingratitude on my part, were I to omit on this occasion to. testify to the forbearance and indulgence which you have always shown to my many defects; and it is a sincere pleasure to me to say, that ever since you first called me to preside over the society, and to fill the responsible and honorable office of President of an Agricultural Association, I have always met with the greatest kindness from all the officers of the society, and for my own short-comings I trust they will pardon me. It is certainly a fact worthy of notice, that the greatest harmony and good feeling have always prevailed at our nieetings, and I assure you it will always be gratifying to my feelings to learn that the same degree of harmony and friendly feelings continue to characterize all the future proceedings of your society, and although I shall not be President, I intend to give it my support as a member.

Before concluding, I would beg to remark, that I do really believe the prospects for the farmers of Canada are now more cheering than at any previous period. There can be but one opinion that this our adopted country is fast improving in all the elements of comfort and wealth; our exports are increasing rapidly, and although our imports are greater than is to be desired, it is to be hoped that the day is not far distant when the amount of the latter will not approximate so near to that of the former as at present, but Le much lessened. Our great aim should be to

ons articles, which we are at present under the necessity of importing, often at great cost. By adopting such a course, by raising up Towns and Villages where various descriptions of artizans would congregate for the purpose of manufacturing those articles, we shall at the same time be creating a home consumption for a large portion of the surplus productions of our fertile soil. With railroads, macadamized and gravel roads, and other important projected improvements in prospect, I am convinced that Canada is destined at no very remote period, to become a great and wealthy country; and if every farmer pursues a proper and judicious course, husbanding all his resources, suffering neither fodder, manure, fuel, nor any other adjunct to his farming operations to go to waste, he will materially contribute towards bringing about such a result, for let some of them think as little of their profession as they may, farmers are the bone and sinew of the country. It is to be regretted that this day for our Autumn Show has turned out so wet and unfavorable, so much so, that great numbers, I am sure, have been prevented from attending, and from which cause the enjoyment we looked for has been considerably marred. However, we ought never to repme at any act of Providence, which rules all things and orders all things for the best, and to which it behoves us to bow submissively. This Show, I fear, will not compare favorably in some departments with your previous ones, owing to the unfavorable state of the weather through the greater part of the day. However, let not this discourage us; let us hope for a better day next time, and let us by no means neglect to support as we should these Agricultural Societies, which have been the means of doing so much good, and which are so well calculated, if properly conducted, and equally protected by the Government, to do still more good every succeeding year. The Legislature is now about to make some amendments in the law relating to these societies, and it becomes our duty to second those praiseworthy intentions on the part of our Legislators, and to show by our exertions that we duly appreciate the valuable support given to these societies by the Government. If you conceive, gentlemen, as no doubt you will, that my seeds of information have been badly cleaned, too hastily prepared, as well as carelessly sown, I trust they will not fall upon barren ground; for, believing, as I do sincerely, that for the kind of soil on which I had to sow them, they were the best which I could in my haste cull from my own store, together with a few borrowed grains which I have thrown in here and there; and although sown broadcast by an unpractised hand, I think you will admit that they are not deficient in measure, so that allowing the light grains to perish, I trust that those which survive will take deep root, stool and spread, and in good time produce a profitable return, or at least prove germs that may produce a better sample of seed; and should any such results follow, I shall feel amply paid for my time spent in sowing them. The show of young horses, mares and foals today is certainly creditable to the exhibitors and to the township at large; the few sheep exhibited were by no means inferior, and it appears that

some of them were readily bought up at good prices; the quantity of wheat on the ground is very fair as to quality, both fall and spring varieties. I do think that some of the samples could not easily be beat in the Province; and for the domestic woollens, both as to quantity and quality, they have exceeded anything of the kind ever before brought under our notice on a similar occasion within the township, doing very great credit both to the producers of the wool, the carders, spinners, weavers, and cloth-dresser or finisher. There are one or two remarks which I forgot to make. The first has refe ence or finisher. to the proportion of the government grant allowed to the township societies, which I think is by no means equitable, being too small; so much so, that these local societies are enabled to offer but a small amount of premiums on occasions like the present; too trilling, generally, to rouse sufficient competition. Could these township societies be placed in a position to enable them to offer larger and a greater number of premiums, they would effect much more good than can be expected with their present limited means. I am willing to admit that much may be advanced in tayor of giving to the County Societies a large share of influence, with a view to bring the very best and choicest productions of the whole County, periodically, into one focus, and for mustering as large a number as possible of the most influential and best informed farmers; but so far as my observations have led me, I am quite of opinion that in the present state of society, particularly in the rear townships, these county meetings do not attract to any extent that class which most need a spirit of emulation intused amongst them, but are confined in a great measure to the leading tarmers, and men of other professions, including a portion of the poorer farmers that reside within a very moderate distance of the place of rendezvous. Now I am led to the conviction that the township societies, if placed upon a proper footing, are decidedly better calculated to supply this desideratum, viz., of bringing those together who most require instruction, encouragement, and a spurring on. I am sorry to have to inform you, that in consequence of our funds for the year being nearly exhausted, it e Directors have with much regret been obliged to abandon the contemplated Ploughing Match. I would advise the Directors to instruct the Secretary to correspond with some of the neighboring township societies, on the subject of those resolutions which you adopted at your last annual meeting, in order to obtain an expression of opinion thereon. Before parting from you, I must be allowed to say, that it is my firm conviction that the members of our society do not take as much interest in the Couniy exhibitions as they ought. I feel satisfied that a better attendance of our members at these shows would be attended with beneficial results.

The object sought to be obtained by the passing of one of these resolutions has been provided for by the new Agricultural Act, viz., that of appropriating three-fifths of the Government grant for the use of Township Societies.—Ed.

ARTIFICIAL STONE. - Owen Williams, of England, has just taken out a patent for the manufac-ture of artificial stone. The following ingredients are used in preparing it; 180 lbs. pitch, 41 gals. dead oil or creosote, 18 lbs. resin, 15 lbs. sulphur, 44 lbs. finely powdered lime, 180 lbs. gypsum, 25 cubic feet of sand, breeze, scoria, bricks, stone, or hard materials, broken to pieces, and passed through a half-inch sieve. The sulphur is first melted with about thirty pounds of pitch, after which the resin is added, then the remainder of the pitch with the lime and gypsum, which are introduced by degrees and well stirred, and the mixture brought to boil. The sand, or broken earthy or stony material is then added, and the whole mass well stirred, and the dead oil is in a fit state to be moulded into blocks. In order to consolidate the blocks, pressure is applied to them in the moulds. The patentee gives also the proportions of the above materials to be used as a composition for laying pavements, as a cement for uniting to each other blocks of the first-named composition, when used for building purposes, and as a coating for bridges, the roofs of buildings, The artificial stone hardens in about a week, when it becomes as stubborn as granite. composition is not only a very durable, but a cheap one, it costing less to erect buildings out of this material than from the commonest kind of brick. A roadway, plastered with this material, becomes a smooth, solid, flooring of rock in about ten days.

The Agriculturist.

TORONTO, FEBRUARY, 1853.

FLAX CULTURE.

We have received of late, several enquiries relative to the means which are being taken to extend the cultivation and preparation of hemp and flax in Canada. Those who feel interested in the subject, which is one of daily increasing importance, may rest assured that the matter will not be allowed to go to sleep, although since the Provincial Exhibition but little has appeared in the public prints about it. reason to believe that the question is occupying the earnest attention of the Ministers of Agriculture, and that that functionary either himself, or in connection with the Board of Agriculture, will shortly adopt some practical means of facilitating this object.

The fact is that changes or improvements, as they are called, are being so rapidly made in the United Kingdom, in the method of preparing and manufacturing Flaxen fibre, that a considerablepractical difficulty exists in determining with-

all things into consideration, the best and most economical process. Donlan's machine, which was sent by the CANADA COMPANY to our last Exhibition, is among the most recent improvements, and a mechanic of this city is constructing a new machine after that model. machine will be thoroughly tested here during the present year, and from the deep interest which Mr. WIDDER feels in the subject, an interest which we believe is equally shared by the Directors of the Company in London, who will not fail to inform their principal commissioner here of whatever changes or improvements may take place at home, we have therefore good reasons for expecting, that before the expiration of many months, a clear and satisfactory way will be opened to us, in this country for preparing flax and hemp, in the best and most economical manner. In the mean time we will not fail to apprize our readers of whatever comes to our knowledge that is possessed of any practical importance.

We will conclude our remarks for the present, with some statements on the cultivation of Flax, condensed from an interesting paper read by Dr. Anderson, Chemist to the Highland Agricultural Society, entitled 'Summary of Discussions at the Monthly Meetings in 1851-2,' which appears in a recent number of the Society's Transactions.

Flax was formerly cultivated to some extent in Scotland, but of late years it has been almost abandoned, owing, however, to the low price of grain, induced by the late fiscal changes, the culture of flax has been revived, and attempts are being made to bring it within a defined course of rotation. The recent new process of preparing it for market without the old tedious, and sometimes unsatisfactory methods of steeping it in water, have mainly contributed to the production of this result. "It may be safely laid down as a rule, that in a country where labor is dear and rents considerable, the old process can scarcely be made to pay, except under the most favorable circumstances." Under the old system of retting, variations in temperature and the character of water and inattention to various little precautions, which are sometimes most difficult strictly to observe, would so deteriorate the fibre as to render it comparatively worthless: and if flax is to be made to pay at all it must be with the assistance of the new processes, which have been found upon trial more or less satisfac-It has been proved that by adopting these modern improvements, the cultivation of flax has in most instances turned out more profitable than other crops.

It has been usually considered that flax is a great exhauster of the soil, by extracting a greater amount of inorganic matter than most out further experience, which is in reality, taking other crops. Recent practice, we believe, as well

as scientific researches, have gone to disprove this popular belief. Dr.Anderson observes:

"The chemical investigation of the plant shows that there has been much misapprehension on this point, and that under proper management it does not exceed, if indeed it does not considerably fall short of other crops in this respect. It has been thoroughly established that, with flax as with other crops, the principal part of the valuable constituents are accumulated in the seed, and comparatively little in the straw. Now, it has been found by experience, that the finest quality and most valuable fibre is obtained when the flax is cultivated under such circumstances, that its production of seed is as small as possible. This is effected practically by sowing close, and by avoiding too large a supply of manure, which has the effect of producing a coarse and inferior fibre. If this system is pursued—and it is manifestly that which for all reasons must be most profitable-flax cannot be considered more exhausting than a white (grain) crop. I am assuming, of course, that, as used formerly to be the case, both straw and seed are removed from the land; but if, as will probably be henceforth practised, the seed be employed for feeding on the farm, I apprehend it will turn out to remove less valuable matters than a crop of Oats, of which the seed is removed, and the straw returned to the land. Such, at least, is the inference to which Science would lead us, but it would be most desirable to have it confirmed by actual experiment."

Soils of a medium quality, such as are neither too wet nor too rich, produce the best kinds of flax for the better descriptions of manufactures. A very rich soil produces a too luxuriant growth, and consequently a coarse fibre.

Schenck's patented system of steeping has already given a powerful impulse to the cultivation of flax, both in Great Britain and Ireland, and its principle is very simple. In consists in placing the flax straw in small vats, in which it is covered with water kept at a uniform temperthrough it. The flax is exposed to this treatment for a period of from 60 to 70 hours, and at the end of that time, the process of fermentation is complete, and the fibre can be separated from the husk and other parts.

With respect to Schenck's system, Dr. Anderson remarks:--

"There is no question that this process is a great improvement, but I have no doubt that it is yet in its infancy, and that it is still far from perfect. I happen to know that a patent for steeping flax upon another plan is also about to be taken out, the preliminary experiments on which have, I am given to understand, been most successful. Other processes have also been proposed; and one-that of the Chevalier Claussenhas been in roduced to the public with great flourish, and great results are expected from it, but which, I must confess, I do not think will be realized. That patent is for a method of converting flax into a substance like cotton, which is done by a somewhat complicated process. Now, if the patent had been for converting the cotton into flax, I should have understood it, for that would have been converting a cheap material into a dear one; but I cannot see how any thing is to be made by converting a dear substance into a cheap one. If it is meant that inferior qualities

just conceive the possibility of its paying; but if that is all that is to be done, it can be of no benefit to the farmer, because he may depend upon this, that if he is to make the cultivation of flax pay, he must aim at producing only the superior qualities."

PROGRESS OF CANADA.

The present condition and future prospects of this portion of British America cannot be otherwise regarded than as highly satisfactory and encouraging. On all sides we see daily increase of progress. Villages are rapidly springing up in all directions; the older of them fast growing into towns of no mean size, and transacting an ever increasing business, while several of the latter will soon gain the rank of corporate cities. As the railroad system becomes developed in Canada, so will its business increase. Already, in several localities, the expenditure of a few years persevering industry has literally made the desert to blosson as the rose. The following letter, which we copy from the Brampton Mercury, written by John Lynch, Esq., an old and respectable settler, well known to many of our readers, is only a single specimen of many of a similar character, which might be called from the press of different localities. Canadians have now the satisfaction of knowing that their own country is making a similar progress in all the appliances of modern civilisation to their enterprising neighbours of the United States. The difference in favor of the latter that formerly ature of 90 degrees, by a steam-pipe passing obtained, has often been much over-coloured and exaggerated, by tourists and others; while at present Canada is rapidly assuming a position which must preclude the possibility of an unfavorable comparison:—

"In the beginning of the year 1820, the tract of land on which the village of Brampton now stands, and for many miles around, was an unbroken wilderness, unmarked by anything to denote the proximity of the white man, but the slight traces which the surveyors had left in their survey of the previous summer. In the course of 1820, the Township of Chinguacousy was partially settled, and its population, with that of the neighbouring townships, has continued steadily to increase, until now the spot which thirty two years ago formed part of the immense hunting ground of the Indian, where the wolf and bear roamed at pleasure, has become one of the finest Townships in Western Canada. Upon the Hurontario street, in the above-named township, stands the Village of Brampton, now the residence of over 1,000 human beings, covered (the ground I mean, not the human beings) with numerous merchant shops, manufactories, dwelof flax are to be converted into fine cotton, we can lings, &c., alive with the hum of business, and

giving to even a casual observer, convincing

proof of solid prosperity.

"It may not be amiss to mention as a curious incident, that in the summer of 1820, a colony of Beavers, frightened by the earlier settlement of Toronto Township, established themselves on the banks of the Etobicoke Creek, on the spot where Brampton now stands; but the sound of the axe of the sturdy Pioneer soon disturbed them, and they took their departure to parts unknown.

"The first appearance of anything like a Village was in the year 1834, when Mr. John Elliott sold a few lots off his farm for Merchants' and Mechanics' shops, and called the place "Brampton," after a place in England, near which he formerly resided. One of the lots was purchased by Mr. Abijah Lewis, now of Cooksville, who built a store upon it, which was for many years the only one in the neighborhood. The store and lot were subsequently purchased by Peleg Howland, Esq., our present gentlemanly Postmaster, and is now the site of the Post-office and Mr. Howland's store. About the same time several industrious mechanics established their trades in Brampton, and soon obtained a good and constantly mereasing business.

"In 1810, George Wright, Esq., M.P.P., established the second store in Brampton, and it is but justice to Mr. Wright to say that he has done more by his enterprise to encourage the prosperity of the Village, than any other one individual. By his enterprise in building and other improvements he gave employment to a great number of men, and thus attracted an in lustricus population to the place. One of the fruits of his enterprize is the splendid Steam Flouring Mill, which turns out over one hundred barrels of flour every day, and is a great advantage to the Village and the

surrounding country.

"There are at present in Brampton, one Steam Flouring Mill, one Foundry, and a second in course of erection, one Thrashing Machine shop, the Messrs. Haggerts', at which the machine that took the second prize at the last Provincial Exhibition was made, one large Tannery, the proprietor of which being about to retire from business, now offers it for sale or to rent, two Clock and Watch-makers' shops, several Waggon and Carriage makers, Saddle and Harness makers, Cabinet makers, Chair makers, Blacksmiths, and Tradesmen of almost every description; but no loafers. There are six good Inns and a Temperance House, a Livery Stable, Boot and shoe makers, and other places of business too numerous to mention, but for which I refer your readers to your advertising columns. There are three Churches, five Clergymen, four Medical men, two Drug stores, a Book store, a Land Agency, an Attorney's office, and last, though not least, the Brampton Mercury, just spreading his wings to carry to the inhabitants of the civilized world, and some parts of the United States —as your elder brother of Streetsville would say -the sayings and doings of the Bramptonians.

"There are places, no doubt, which have advanced more rapidly than Brampton-though same ratio with such a substantial and healthy growth as Brampton. There has been no magic in its progress, no building of castles in a night by rubbing an old lamp, which might disappear the next night by a little adverse rubbing; but the prosperity of Brampton-whatever it may be -is owing to the industry and perseverance of its inhabitants, combined with the advantage of its locality, being in the centre of a splendid agricultural country, settled by an industrious and wealthy population, and being also the principal market for the produce of a large extent of back country.

"There is nothing very attractive in the first appearance of Brampton, but there are some very good brick buildings, and numerous buildings are in course of erection. There is not, at the present time, one house to let. The Village is distant about thirteen miles from Port Credit, and twenty-six from the City of Toronto, and by the line of railway about to be commenced this will

be reduced to twenty miles.

"In accordance with a proclamation of the Governor in Council, Brampton is now an Incorporated Village, the election of its first Council to take place on the first of January, 1853."

SMITHFIELD FAT CATTLE SHOW.

This Exhibition was held in the usual place in London, the begining of December, and from all the accounts which have reached us, it seems to have been eminently successful. The new regulation of allowing the different breeds of animals to compete only in their respective classes, came for the first time into operation and appears to have given general satisfaction. So diverse in point of size, habits, adaptation to different pastures, climates, &c., are most of the distinct breeds that it has been found in practice exceedingly unsatisfactory, if not utterly useless for practical and economical purposes to class them together. A Hereford cow, belonging to Mr. J. Dunne Cooke, was the winner of the go d medal, as the best heifer or cow of any breed; and Mr. Stratton's 4 years and ten months old short horn ox, gained the gold medal, as the best steer or ox of any breed. A general examination of the animals exhibited (says the Agricultural Gazette) results in one unquestionable conclusion, viz. : the value of symmetry alike in oven sheep and swine. The London Times has the following remarks:

"There are not moe than a hall-a-d zen beasts shown of a decidedly second rate character; and the two worst of these are foreigners. It is to be hoped that the introduction of continental stock at these annual exhibitions may not be discouraged by the overwhelming character of the competition to which they are unavoidably exposed. They have established advanced more rapidly than Brampton—though a place for themselves in the markets, and our agribut few such places could be pointed out—but I ulturists can take no harm, and may derive some know of no place which has increased in the useful hints from seeing the best Dutch cattle once

a year placed in juxtaposition with their own. Among other features of the present display may be noticed the skill with which our breeders, in each class, are rearing their animals so as to approach certain standards of shape. Their unremitting exertion have enabled them to get rid of old defects, which were at one time regarded with favour, and so to manage that their stock shall carry the greatest amount of fine meat in the best places. The North Devons have always had, and still retain, the advantage in this respect; but it is wonderful what improvements towards the same end have been made in other breeds and especially the Herefords and Short-horns. If any one wants an illustration of this, let him compare with any of the prize cattle, an old-fashioned Shorthorned cow exhibited by the Marquis of Exeter—not a bad specimen of her kind, but still illustrating by contrast, the increased symmetry of younger animals. The most remarkable beast in the yard is certainly Mr. Richard Stratton's ox; its shapliness and enormous size unite in giving it an advantage to which, were either of these qualities considered separately it would, perhaps, not be so clearly entitled. Among the cattle we notice one rather singular fact, that while there is a fair show of West Highlanders, Angus, and polled Galloways, there is not a single entry of Welsh or Irish. How comes it that our Northern agriculturists, even from as far as Shetland, are thus represented, while from the rich pastures of the Emerald Isic and from the hills of the principality no-thing is sent? The classes devoted to cross-breeds contain some excellent specimens, and as these, after all, show the staple which supplies our market with beef, they will be examined with proportionate interest. Among them will be found one remarkably fine steer, exhibited by Mr. Joseph Philips of Ardington, Berk-, and an equally handsome beifer, shown by Mr. Robert Beman, of Moreton-in-the-Marsh, Glo-cestershire. If in their awards for cattle the judges have made any mistake, we should be disposed to say that it was in giving a prize to Prince Albert's Here ford steer, which seemed to us not comparable to that of Mr. W. Heath, of Ludlamhall, Noawich, standing next to it. Early maturity, economy in feeding, and a corcase affording the largest quantity of meat distributed in the best joints, ought to be the tests of a good show of fat cattles. The judges point out the finest beasts, but without, we fear, the essential reference to those other considerations upon which the practical value of the exhibition depends.

In the display of sheep, the present show comes out very strongly, and here again, in all the classes, great excellence is attained. The Marquis of Exeter carries off the gold medal for the best pen of one year old Leicesters, and Mr. Sainsbury, of West Lavington, shows the best one year old South Downs. There is also considerable display of cross breeds of extraordinary merit, and to which some of our most eminent agriculturists have contributed. We would draw particular attention to the pens exhibited by Mr. G. R. Overman, of Burnham Sutton, Norfolk, and Mr. W. S. Stevens, of Galthampton, Oxfordshire.— One point which occurs forcibly to the visitor of these annual shows, is the preference which the Smithfield Club appears to give to pure over cross-breed stock, notwithstanding that first crosses are of all the most profitable to send to market, that Smithfield is necessarily su, plied with a small proportion of pure bred sheep, and, that an exhibition like that in Bakerstreet, is one where strict attention to purity of blood is not requisite, and can be dispensed with. The tendency of such predilections is to shut out practical men from the competition, and leave it in the hands of breeders and amateur agriculturists. The club, it will be perceived on reference to the prize

list, gives no gold medal except in the pure breed classes, and their money premiums for those classes are on a larger scale also. There is an obvious risk in maki: g such distinctions with their new classification, for they will thus be insensibly drawn on until all difference between their exhibition and that of the Royal Agricultural Society disappears.

The present show of pigs is quite equal to that of former years; and the pen to which the gold medal has been awarded will for the next few days ocuppy no small space in the attention of the visitors.—
Those who cannot work their way through the crowd to see them will do well to examine the porkers sent to Baker-street by that enterprising and sprited agriculturist, Sir John Conrov. They are excellent of their kind, and have won him no less than three prizes.

To the existing attractions of their show we understand that the club contemplate adding next year a display of poultry, which cannot fail to be popular. One of the smaller evils of Protection was that it brought into unnerited contempt an interesting and profitable branch of rural industry, which being neglected, our poultry became so dear and bad, that we had, and still have, to draw our principal supplies of them from France and Belgium

As an ofishoot of the exhibition of stock, the bazaar contains also a great collection of agricultural implements supplied by the best makers, and two collections of farm produce, which are of a remakable excellence and deserve the careful inspection of every visitor. Tl. first of these is by Gibbs & Co., of Half-moon Street, Seedsmen to the Royal Agricultural Society. It is beatifully arranged and shows great care in the selection of the specimens. The second is a contribution from that valuable institution the Royal Dublin Society, and illustrates the capabilities of the Irish soil and climate for the growth of green and root crops in a manner truly wonderful. Mr. Corrigan, the society's curator, has brought over this highly creditable display of farm produce, which we understand is the residue of the society's last autumnal show, and is composed of contributions from the best agriculturists in Ireland.

DISPLAY OF IRISH FARM PRODUCE AT THE LATE SMITHFIELD CATTLE SHOW.

The department of Seeds and Roots of English growth was very extensive and of a high character. A novelty in connection therewith is worthy of special notice, viz., a splendid display of Irish productions, forwarded by the R 3 al Agric Iltural Society. The Morning Herald and other papers speak in the highest terms of the farm productions of the Emerald Isle, where improved tillage and farm management are happily progressing in an accelerating ratio. That most useful and talented journal, the Irish Farmer's Gazette, remarks in reference to this matter: "Our English friends have had now, for the second time, occular proof of the excellence of our soil in such productions; they have also proof that we are not the indolent, ignorant people, some take a delight in representing us to be; for they must not suppose that the production of those fine root crops are only to be attributed to the great natural fertility of our soil, fertile as it is, without a corresponding evertion in systematic and first-rate tillage, and the application of suitable manures. Improved drill husbandry is no new thing in Ireland."

The specimens of Swedish turnips and mangel-wurzel exhibited are described as of enormous growth; some of the returns showing an average weight of 50 and 60 tons per statute acre! Most of these splendid crops were produced on land which was pronounced a few years since as exhausted and worn-out, and recently purchased in the Encumbered Estates Court; thus affording an indisputable proof of what the naturally rich soil of Ireland can do under proper management.

In connection with this truly pleasing and hopeful state of things, several instances of farm management are related which clearly show that in several districts of Ireland both tillage and draining are rapidly improving. We regret that our space will not admit of details, which could not fail of being interesting, and in some degree useful, to many of our readers. Surely old Irelands, "good time" may now be safely said to have commenced. Success to her exertions.

IMPLEMENTS AND MACHINES AT THE SMITHFIELD CATTLE SHOW.

The Mark Lane Express, one of the ablest and best conducted Agricultural papers in Great Britain, observes that the number as well as usefulness of the variety of engines, machines, and agricultural implements generally, exceeded all previous occasions. The number of Reaping Machines gave an air of novelty to an English Show. Our contemporary remarks :-

"Perhaps, however, the most striking advance upon former shows was in the reaping machines. There was a great variety of modes of cutting, each claiming merit, and no doubt possessing great advantages for certain purposes; but which of them is the best for catting the grain crops of England time has yet to prove. First Bell's, on the perfect seisor or elipping principle; Orowley's & McCornick's, the drawcut with a sickle edge; Dray and Co.'s, the Husseyan or chopping plan; Garrett's, a combination of the clipp ng and chopping principles; Croskill's, a combination of the drawcut and clipping principles, with a fine serrated edge. All these plans have been more or less used, and found to answer in different degrees. The clipping has had the longest practice, and has retained the highest merit wherever it has come in competition with the others, as the farmers require a reaping machine-and no machine can be fully entitled to the name, except it cuts and lays down the crop in a continuous swathe, or in parcels large enough for sheaves Thus the success of such an implement will not be dependent upon the activity

f men that do not like to be put much out of their old pace of moving; this, coupled with the past wet harvest and heavy crops, proved almost fatal to the American reapers; while Bell's, under the same disadvantageous cir umstances, was applieded where-ever it wint. We are convinced that its great success lay much in its cutting, gathering, and laying down the cut crop in a beautifully arranged swathe without the aid of man, except as far as diving the horses is concerned; and here the driver using a pair of reins, and steering or guiding it like a plough, soon feels himself at home, because the mode of action is thoroughly understood by him. We are convinced that if the harvest had been as dry as usual, the American machines would have gained a fair share of confidence aming the farmers, and with some improvements, we are of opini a they will become a popular and useful branch of machinery.

Mr. James exhibited a variety of weighing machines for weighing all sorts of live farming stock and other produce of the soil. We are strongly of opinion that the time is not far distant when farmers will use the test of weighing the food for their stock, and the stock occasionally while growing or fattening; thus the farmer will be able to detect the errors he committed in selecting or breeding his stock, and the feeding value of each description of farm produce. In fact, we were the more impressed with this idea as we mused over the immense size and weight of the fruit, roots and plants, we saw on the stands of the eminent seedsmen; and especially on the produce of the Emerald Isle sent over from the Dublin Show, which spoke louder than words that both the soil and climate of Ireland are all that can be desired.

With reference to the Steam Engines for Agricultural purposes, the Morning Chronicle has the following remarks:-

The yard adjoining the premises was visited in the course of he day by numerous scientific and practical agriculturalists, the source of attraction being a number of portable steam engines at work, by the most eminent makers, including Messrs. Gar ett & Son, Messrs. Tuxford & Sons, Mr Hornsby, and Mr. Burrell. The engine of Messrs. Garrett & Son was shown in conn ction with their very complete threshing ma-chine, to which we yesterday alluded. The engine of Mr. Burrell was also shown driving a threshing machine. The engine, however, of Messrs. Tuxford & Sons excited the greatest amount of attention and interest. The advantages of the portable housed engine of this firm are self-evident, and the number of them which has been made by the firm proves that they are duly appreciated. At the late Great Exhibition this engine was selected by the engineers of the French and Prussian Governments as the best shown. and two of them were purchased for deposit-one in the Conservatoire des Arts et Metiers, and the other in the Museum of the Royal Society at Magdeburg. The working parts of the engine are effectually proteeted when at work from the destructive grit and dust especially given out in most agricultural operations. They are secured from the weather at all times; and from any interference with their working parts by being under lock and key. They may be managed by any ordinary farm labourer, with a few days instruction. They have upright cylinders, this, it is contended, being the best position to ensure the cylinders not wearing oval. as is the case with the horizontal cylinder. The "governors" of the engine act in a very simple and effective manner direct upon the brottle valve, and from their arrangement cannot well be put out of order. The boiler is made of Low-. and muscular strength of labourers, who are a class moor iron, and has water-space flues leading from

the fire-box and returning through lap-welded iron tubes, thus avoiding immediate contact of the tubes with the fire. The total weight of a six horse engine, mounted on four wheels, is but 54 cwt.; the consumption of coal does not exceed the extraordinary low amount of 5 cwt. per day of ten hours. Every precaution is adopted, by means of "spark traps," to avoid accidents from flying sparks. Few questions are of greater interest to the agriculturist than the application, in as simple and economical a manner as possible, of steam power to the valied operations of the farm; and it is pleasing to find the energies of the most eminent agricultural machinists devoted so strenuously to the subject.

THE BIRMINGHAM CATTLE AND POULTRY SHOW.

The fourth annual exhibition took place in Birmingham, the week after the Smithfield Exhibition, and was, as might be expected, more successful than any of its predecessors. In order that our readers may be put in possession of what is doing in this important department of husbandry, in the old country, we subjoin, without curtailment, an ably, and we doubt not, impartially written article from the Mark Lane Express of December 20th:—

With an extraordinary want of discretion in the management, the Birmingham Cattle Show has hitherto been made to clash with that of the Smithfield Club. The natural consequence of this arrangement was to give something of a local and confined character to the exhibition; never, in fact, until this season was the meeting here allowed anything like full justice being done to its merits and capabilities. There are few towns, be it remembered, with better recommendations for a display of the kind than Birmingham. Famously situated, almost in the heart of many of those counties renowned for their several breeds of cattle and sheep, as well as fed by rail from nearly every quarter more distant, the success of such a show could scarcely be questioned. Further than this, the hall devoted to the exhibition is now, perhaps, the best in Englanc; it is certainly the best we ever visited. Spacious, lofty, and admirably arranged, with the most perfect ventilation and general completeness of detail, it becomes a pleasure indeed, rather than the hard labour of too many of these gatherings, to inspect the different varieties of flesh and fowl brought together in competition. The enthusiast will get a fair turn at every number in the catalogue without that sense of fatigue and oppressive heat which so often has damped his ardour and loft his duties unfinished. The mere lounger, on the other hand, has equal reason for a visit; should he tire on that minute examination of stall after stall, he will find at one end of the hall a most convenient resting-place, opening and fashioned like a stand on a race-course, and affording a capital view of the whole yard. If he require yet more substantial refreshment, he can here command it; lunch of every kind is now provided, although the caterer is of too enteel a turn to deal in beer!—rather a strange prohibition, considering time and place, and, as we take it, altogether a mistake.

The town of Birmingham, then, has in itself, to begin with, almost every essential for a show of the kind just there. Nothing more was wanting than judicious management to direct and carry out the

business of the meeting. We are happy to add, that, generally speaking, his has been quite worthy of the occasion. Indeed, in one or two points, the Committee have taken a line of their own, that the experience of season after season gives yet more to their credit. The classification of the several breeds of animals, for instance, just ado, ted by the Smit field Club; and, above all, the introduction of prizes for poultry; a step worthy of all connendation, and foll wed again by both the Smithfield Club and the Royal Agricultural Society of England.

The grand mistake, we repeat, and it might have been a latal one, was putting the attractions of Birmingham in direct rivalry with those of Smithfield. This should never have been, and, as we trust, will never occur again. The result of the last week, must satisty everybody as to the error of such a course. The Birmingham Management saw many a new and good name in their catalogue, and many a fresh face in their Hall, which they never would have seen under former circumstances. Moreover, for the quality of the Exhibition, as well as for the general success of the meeting, that now over, we are assured, far excels any of its predecessors. The old supporters of the Society, however, have little to complain of from this introduction of new blood; they have fairly held their own, and in some instances, as fairly beaten opponents that came against them in all the flush of recent triumph.

This is the case with the short horns, as a class decidedly superior to any in the yard. Mr. Stratton's beast, which last we k took the gold medal at Smithfield, and was pronounced there a v rv perfect animal, succumbs here to one of Mr. Drakefords of Coleshill. They are both very fine specimens of the breed, and many a good judge has been puzzled to decide between them. At first one might be inclined to favour Mr. Stratton's, and to question whether Smithfield has in reality been beaten. His is the larger as we'll as the older beast, and it is difficult indeed to find fault with him. The other, if not quite so showy, will well bear the test of close examination. The more you look at him, the more you like him; wonderfully level and even as he is from end to end, it shall not be for us to dispute the correctness of the award.

In the short horn cows Mi. Towneley takes the first prize and gold medal of the show. This gentleman has now become famous for his cows, as witness his success at Lewes this year. The one he now exhibits will only add to his repute as a judge; she was deservedly the picked animal of the whole yard. Some forther entries from Mr. Stratton, Mr. Wiley, Benam, and other noted short horn breeders, contibute to make up a display of short horn cattle that has seldom been surpassed.

It is not our purpose, nor would time admit of our going through the whole of the classes. We may note, however, that the Herefords, if not perhaps in any way disputing the place with the short horns, were generally good; but they are not so much at home here and so, not quite so generally appreciated. Of the Devous there was not a strong entry, it may be from the same cause; still, in what were shown there were some very next specimens of the pure bre d; Lord Leicester, who took the first and second prizes in oxen, winning the former with one of Mr. George Turner's own sort. The general character of the show, nevertheless, does not so much depend on the actual purity of the stock as a distinct breed, as it does on their utility and fitness for those districts from which the classes are chiefly filled. This is especially remarkable in the sheep, of which the Southdowns have very decidedly the call; but even these

"the Shropshire" and others may rather be taken informed. Many, as well as ourselves may not be as the great feature in the sheep; the Lucesters, above the advice. As it is, we give the greatest credit with one or two exceptions, making but a poor stand, to Birmingham for having first introduced such a fea-We certainly expected to have seen a better show of ture into agricultural exhibitions. It must-it has-

Of pigs, fat and breeding, the entries were numerous, and almost all excellent. In both these divisions Sir John Conroy exhibited to great advantage, with his Aborfield improved pig. The best test for the fat pigs was the eagerness with which they were bought up, at wouderful advance on the price of last year. In fact the sales generally were good; and when we left there was little prime stock in want of buyers. In the small pigs for breeding we especially commend two lots, ent by Mr. Leigh Clare, of Bristol, one of which obtained the first prize and medal. They were a very fine sample of the improved Essex. Tough here again, in the pigs of Birmingham. purity is not generally bowed down to-at least as the standard of profitable excellence. But, after all the great strength of the Birmingham show is centred in the pouliry. For one man in a railway carriag · or a coffee-room that introduced himself with an observation touching the points of a short-horn, or the flavour of a south-down, twenty were learned in Cochin Chinas, Country clergymen, ruse in urbe citizens, elderly gentlemen goin; on their own account, and simplings armed with unlimited orders, were all intent on Cochin Chinas. It was not the cattle show—the grand attraction was the "Cochin Show." With the Birmingham Society rests the With the Birmingham Society rests the credit of having first called a tention to a branch of breeding so long and so strangely neglected. By its influence the different varieties of domestic birds have been rapidly improved; and, appropriately enough a this last exhibition there was such a display of poultry as never before was gathered together. Dorking, Game, Malay, Hamburg, pigeons, turkeys, geese and ducks of almost every known kind, were there, to be rewarded according to their several And extraordinary merit there was, too, in every class; but still it was of but secondary consideration. The mania—and it is now nothing short of a manua-turns on the Cochin-China. We hear commonly enough of fifty or sixty guinea; being asked and given tot a lot of four birds; and we inquire in some ignorance may be, can this be warranted? What super onity has the Cochin over the Dorking or Game fowl? His appearance, for one point is decidedly against him; no one we should fancy, would ever attempt to rate the Cochin as a handsome bird. The two breeds we have just named as well as many others, are in this respect infinitely before him. Is it in flavour? Here, again, we question very much whether he can compare with the Dorking or Game; in fact, the result of our own exper ence -limited, we admit-is that for the table he is better crossed than when served up in all his native purity of size. Is it this size, after all, that is his chief recommendation? We trust not If with it can be coapled early maturity, and the hen birds be depended on as good layers, the policy of encouraging the beed may be admitted. These very points, however, must of themselves tend rapidly to diminish the extravagant "fancy" prices now given: and the sooner the better. We may then begin to consider them as the common farm-yard fowl; ascertain how economically they may be reased, and how, in reality, they are appreciated. At present the breeding of the Cochin-China is not, as we would see it, the business of the farmer's wife and daughters, but rather the hazardous speculation of the dealer, or the costly luxury of the amateur. We write—as we hope we need

have rarely the thorough-bred look we are accustom- | scarcely say—in the best spirit and with the best ineed to in Baker Street, and at the exhibitions of the tention. If we have not done full justice to this Royal Agricultural Society. The crosses from them highly prized fowl we shall be only glad to be better not only wonderfully improved and circulated our best breeds, but it has given the ladies a direct interest in these shows they never had before. It is on these two points we join issue-Is the Cochin-China fowl such an improvement on other sorts as to rank him, perhaps for a very long day, far beyond "the pocket-money" of our wives and daughters?

OXFORD COUNTY-ITS RAPID PROGRESS.

In our last number we noticed the publication of the "Oxford Gazetteer" a highly creditable work, showing in the most indisputable manner, by statistical returns, the rapid and healthy progress which is making in that productive section of Western Canada. We are tempted to make room for the following article in a recent number of the British American, published at Woodstock, that our readers-particularly those in the Old Country-may see that this Province holds out strong inducements to all classes of industrious and respectable settlers, where they may achieve an honorable independence and avoid those numerous drawbacks, which are more or less necessarily incidental to all strictly new settlements. In this age, and in a young, rising country, the results which under a former state of things in the old states of Europe, would have required centuries to develope, are successfully worked out in a single generation.

The rapid growth of many of the western towns of the neighboring Union, has called forth expressions of wonder from the tourist, and the columns of many an English publication have blazed forth the almost migic creation of what are now densely populated cities and mercantile marts.

The growth of American towns is probably beyond precedent in the annals of civilization and population; but when we take all things into consideration, the nature of the people, their speculative propensities and love of change, acting on the raw material of a new country, we can reasonably account for this wondrous result of human energy. Nor is the United States the only place where the same spirit is manıfest. Canada, though denied many facilities which our neighbors posses, has not been behind in improvement—even in localities where essent al advantages and the ordinary streams of business and travel seem to be wanting. In 1827 London was a wilderness, now it is a splendid town-a neuclus to the industry of a rich, flourishing country. Guelph in 1826 was carved out of a dense forest, now it is a town of no mean character. Hamilton in 1830 was in population what Woodstock now is, while in the number of good stores and private buildings of the better class it was far behind our present condition. Nor is it merely in the settlement of our country, and the erection of towns and cities, that we approach our American neighbors; our Educational Institutions are creditable rivals to their more time-honored Colleges; while the pure word of Gospel peace is preached in strains as eloquent in the back woods of Canada, and in edifices as elegant in construction and as chaste in style as can be found in any part of the Continent of America. The Arts and Sciences prosper as education extends; and those comforts and luxurie-, which the self-exiled immigrant left behind on his native shore, have been brought to the door of all, and that too, at rates so low, that regret for Home and its enjoyments is in a great measure forgotten. Free from the evils which over population engenders-and all those burdens which our fatherland labers under, we through the blessing of Providence and the free Institutions we possess under the benign rule of our gracious Soverign, enjoy a share of health and comfort which is often sought for in vain in the more genial climate of Britain, or the sunny plains of the south. Yes, in Canada, the husbandman toils not in vain—the artisan plies not his arduous task without a bright future to cheer him. All, all, have hope before them, and with that hope and a few years of well directed exection, comes ample independence. This is truly a pleasing prospect, and one we need not fear to see cast in the shade by the giant advances of our American neighbors. Looking over the records of our Canadian cities and towns, we find few apparently in a more prosperous condition than the Town of Woodstock; without that wealth in its neighbouring forests which has given existence to many a town; with little to aid the energy of its inhabitants, Woodstock now, in the commencement of 1853, presents no insignificant appearance to the traveller. The forest is fast yielding before the woodman's axe, and good roads are now being extended in almost every direction. stores are stocked with the products of Leeds, Manchester and Paisley. Steam has enabled our mechanics to compete with other manufacturers, and few indeed of the articles which necessity or convenience demands, but are made amongst us Bain and Hay, during the past year, have adapted stram power to their works as Cabinet Makers, and exhibit in their ware rooms many beautiful specimens of the art-Messrs. Brown & Co.'s Foundry, consumed by fire and rebuilt within the past year, is an extensive and handsome brick structure, where is now cast about 15 tons of iron at a time-a pretty good index of the popularity and capabilities of that establishment. The new Woodstock Hotel is another building that has sprung into existence on the cite of the former one, which was also destroyed by fire early Under Mr. Matson's charge, as its accommodating and attentive host-with its spacious rooms and splendid furniture-its comfortable construction, and above all, its reputation in the culmary department, it now forms one of the best if not the very best house in the western country. To look back for ten or fifteen years,-who then could fancy that such a building would now exist, or if built, could find support. Great credit is due to Mr. Matson for the arrangement, and to the builders for the execution of the work, and also to many public spirited individuals who so handsomely contributed to its erection.

Our Mechanics' Institute is another feature well worthy of notice. Through the generosity of our Legislature, and the spirit of our people, this body possesses ar excellent selection of most useful books, many of which have been recently added, and with a small expenditure of money in rebinding a few old volumes, and putting into book shape several Magazines, Reviews, &c., the Library of the Woodstock Institute will be, in the quality of its reading material, and the external appearance of its books, second to none west of Toronto. This reminds us

considerably increased during the last year, and reflects great credit on its spirited proprietor, we mean W. Warwick's book store and binding establishment. A well selected stock of Books, with a good supply of school books and stationery, was a want long felt in this place; that want is now in a great measure supplied, and Mr. Warwick is well entitled to the supplied, and Mr. Warwick is well that to the prironage of the people of Woodstock for his industry and enterprize. His supply emblaces most that necessity and fancy requires, while he prudently excludes from his shelves, all works of a doubtful characteristics. racter. To his book store, has been recently attached, a book binding apparatus, where is carried on all the various branches of the business; gilding and fancy work is also admirably executed. The ruling ma-chine, which has just been added, is in itself a curios-ity well worthy an inspection. It is ta-teful in its construction, exceedingly accurate and yet withall surprisingly simple. We had the pleasure of witnessing it a few days ago, while an exceedingly nice job was being executed. It was some Royal paper with upwards one hundred feint lines across the page which were recrossed with red lines or columns.-Music paper is also ruled by this machine, and every other variety of blank-book work. In the hands of the binder was a Register for the Woodstock Hotel, the headings of which were printed at this office, and the book bound in the best of English call, with Russia boards and vellum slips. It was altogether, in our opinion, one of the best samples of book manufacture we have inspected in Canada. Many other marks of rapid improvement in the town and neighborhood of Woodstock can be recorded to which we hope to find time to revert in some future number.

TESTIMONIAL TO DR. McCAUL.

Although the chronicling of musical proceedings does not come within the province of the Agriculturist, we are tempted to transfer to our pages, from a city cotemporary, the following notice of the Toronto Choral Society, inasmuch as it refers to a gentleman who has zealously laboured in promoting the cultivation of Literature and the Fine Arts in this young country. It may not be known to many of our readers that our Provincial Agricultural Association is indebted to Dr. M'Caul for the chaste and beautiful Diploma which the Society has awarded at its Annual Exhibitions since its commencement: the learned Doctor not only furnished the design, but generously, and we may add patriotically, defrayed the expense of the lithography.

TORONTO VOCAL MUSIC SOCIETY.

The Annual Concert of the Toronto Vocal Music Society, came off on Monday evening in the St. Lawrence Hall, before a large and highly respectable, and greatly delighted audience. At the conclusion of the first part a pleasing incident occurred. Mr. G. B. Wyllie, King Street, as Secretary and Treasurer of the Society, presented the Rev. Dr. McCaul with a silver salver with a richly chased silver tea service, consisting of coffee and tea pot, sugar basin and cream jug. Each of the pieces was adorned with appropriate of another most useful establishment, which has been designs of Chinese musical instruments, in bold

relief. On the jug, basin and tea pot, Dr. McCaul's crest was engraved, while the coffee pot bore the inscription—

PRESENTED TO THE
REV. JOHN M'CAUL, L. L. D.,
BY THE MEMBERS OF THE
TORONTO VOCAL MUSIC SOCIETY,
AS A TOKEN OF THEIR APPRECIATION OF HIS
UNWEARIED EXERTIONS
TO PROMOTE THE BEST INTERESTS
OF THEIR ASSOCIATION.

The Dr. ascended the platform amidst great applause, and delivered one of those brilliant! impromptus for which he is famed, and concluded with these words: "Gentlemen, I feel that I have far transgressed the limits which the occasion would prescribe, and which I had proposed to myself when I commenced speaking. Permit me then, in conclusion, again to express to you my grateful acknowledgments for the uniform kindness which you have evinced towards me, and to assure you, that intrinsically valuable as is the elegant and highly finished service which you have presented, in my estimation it (has an untold value-infinitely beyond what costly material or exquisite workmanship can give-as the token of your esteem-the testimony of your regard.

'Oh! the value of that which is given unsought Is not in the one or the art,

For it tells of kind feelings that gold never bought, And breathes the pure warmth of the heart. And in mem'ry's sad musings 'twill call up sweet

dreams
Of those that are absent or dead,
And brighten life's darkness with sunshine-like gleams
Of joy that was once but has fled?"

PRIZE MEDAL.

Although late, we think it right to record the interesting fact of a Gold Medal being presented a few months since to Wm. Hutton, Esq., late of Belleville, by the Johnstown Agricultural Society. The medal is thus described by the Picton Sun:—

"We were shown a few days ago the gold medal presented by the Johnstown District Agricultural Society for the best essay on "Agriculture as a Pursuit" to Wm. Hutton, Esq., late of the County of Hastings. It is made of very line gold, weighing one oz. and seven dwts. and is about 21 inches in diameter. On one side there is engraved "Provincial Exhibition of Upper Canada held at Brockville in September, 1851, running around the border. In the centre, "Presented to Wm. Hutton, of Belleville, C. W., for the best essay on Agriculture as a Pursuit, by the Johnstown District Agricultural Society. On the reverse a sheaf of wheat, "Canada" with a group of cattle, pigs, sheep, &c., a man ploughing, a farm-house and barn in the distance, and a clump of maple

and cedar trees on each side, with the rose, thistle, and shamrock, formed into a wreath on the outer edge. This beautiful medal was designed by Dr. Reynolds of Brockville, and the workmanship is by Mr. Townsend of Montreal. It is one of the most beautiful specimens of workmanship we have ever seen, and reflects the highest credit on the artist, while the design is the happiest thing of the kind that could be conceived.

Every farmer should be proud to know that the importance of his calling is looked upon in such a light as the presentation of a medal like that we have noticed above indicates. With a spirit of emulation among neighbouring societies to excel, and a tangible wish to disseminate information, such as the presentation of this medal gives, and a special department of the government for furthering the interests of agriculturists, they as a class ought to rejoice to know that they are beginning to occupy their true position in the country.

WEIGHT OF A DURHAM STEER.

Woodhill, Waterdown, Jan. 8, 1853.

DEAR SIR,—As the Journal of late has contained some discussion upon the relative value of Short Horns, Herefords, and Devons, I beg to transmit a short statement of a thorough-bred Durham Steer, bred and lately slaughtered here.

My own firm, deliberate opinion, gives a decided preference to thorough-bred improved Durhams, of the right stamp, and this for all purposes; but I should indeed be greatly ashamed, were I to make any depreciating remarks upon other breeds, which may justly find favor with other breeders.

I have no doubt that in the long run, the best paying breed will ultimately prevail; and we have only to bear in remembrance that one breed may thrive and pay well, where another would prove far less successful.

The Steer in question was a white bull Calf, dropped in April, 1849, and not entirely pleasing me in his points, I had him altered. This Steer never tasted turnips or grain, nor was he ever pampered in any way. In fact he got bare justice, even in his ordinary grazing. He was slaughtered about the middle of December last, taken direct from a December pasture. His net weight was as under:—

Four Quarters, - - - 900 lbs. Tallow, - - - - 80 " Hide, - - - 100 "

1080

of wheat, "Canada" with a group of cattle, pigs, sheep, &c., a man ploughing, a farm-house being called anything remarkable, but taking and barn in the distance, and a clump of maple into account his age, three, rising four, and the

total absence of extra feed, or indeed of any feed, beyond ordinary farm pasture, I consider it to be a very fair farmer's return. The quality of the beef was first rate, tender, juicy, and finely marbled.

> Yours truly, ADAM FERGUSON.

CORRECTION .- MR. VAIL'S SALE.

In the list of Mr. Vail's sale of his herd of Short-horns, copied from an American contemporary, into our December number, an error occurs of sufficient importance to require cor-The heifer "Wil-dam 6th," No. 23 in the list, is reported as being purchased by a Mr. Perkins, while the real purchaser was, we are truly glad to learn, our respected and enterprising countryman, Hon. Adam Fergusson, of fessor Low has done in "Elements of Practical Woodhill, Canada West. It is a fortunate circumstance that so fine and promising an animal has been purchased for this country, and we look forward with confidence to the time when male of a superior breed; and in this case, the Mr. Fergusson will be able to send us accounts, similar to that contained in the preceding article, of well-fattened Stock fed only on the ordinary pastures of his farm. We are also glad to observe that several of Mr. Vail's herd were purchased by Mr. Parsons, of Guelph; so that we have a good chance of being pretty well supplied with some of the best short horn blood ever imported from England.

The following explanatory note, which we received from Mr. Fergusson, should have appeared in our last number, but was inadvertently

mislaid.

Editor of the Agriculturist:

Woodhill, December 16, 1852.

DEAR SIR,—I have just received the Decem-

writes me that the only two papers which are much larger and finer looking one but one warranted correct, are those of Mr. Tucker, quarter or one half bred. be put right. summer, is improving in size and beauty. He manent."

is recorded in the English Herd Book (No. 12,268), and I believe is the first and only animal so recorded in his own individuality, certainly in Canada, and I believe I may say in the United States.

I write in haste.

Yours truly, ADAM FERGUSON.

PRINCIPLES OF BREEDING.

To the Editor of the Agriculturist.

SIR,-This communication is intended to counteract erroneous ideas which very generally prevail with respect to the improvem at and crossing of our domestic animals.

As I cannot express myself better than Pro-Agriculture," I will quote that work with a few

additional remarks.

"When a cross is made, it should be with a first cross will be almost always a good animal, but in breeding from the progeny of this cross, expectation will often be disappointed. Not only do the good qualities of the first cross not always remain in the progeny, but often there are found in it defects which cannot be traced to the parents. To secure the benefits of the cross, we should not again resort to the males of the inferior stock, because it might be found that while we had injured the original breed, we had not substituted a better in its stead. rule therefore should be, to cover the first cross with a superior male of the same breed, and so on, until the good characters of that breed became permanent in the progeny. This is said to be breeding up to the superior stock."

It is too often the custom to keep a male of the first cross for breeding purposes, and as his ber No. of the Agriculturist, which is really a produce is quite inferior, this tends to create a most creditable and respectable publication, in its prejudice against improving and improved renewed garb, and I trust will be well supported. breeds. It is the blood that makes the im-I am very sorry that you should have inserted | provement—and a very middling looking ania spurious statement of Mr. Vail's sale. He mal, well bred, will get better stock than a

Albany, and Mr. Allen, New York. His fine ." In crossing, the essential characters of form Heifer, which I purchased there (No. 23), is are imprinted on the offspring by the male; and given to a Mr. Perkins, of whom I know no- it is surprising in how great a degree this imthing. It is a great injury to me, as I may be printing of better characters takes place when justly, or at least feasably, charged with duplicity, a male of super. breeding is employed. A in asserting that I had made such a purchase, first cross between a short horned bull for ex-Mr. Vail is taking steps to have it explained, as ample, fully bred, and a very ordinary cow, proit really is of considerable importance it should duces, not often, but generally, a fine animal, Wil-dam is a symmetrical with an extraordinary aptitude to fatten. But Heifer, and I hope is in calf to young Kirk- the benefit may end with the progeny, if we do leavington, which should produce something not again cover with a male of superior breed, extra. The Bull Victor, which I bought in and so on until the good characters become per-

Though the female should not be neglected, it is the male that makes the greatest improvement, and a good male, with a poor female, will make better stock than a good female with a poor male.

There is also, among many, a prejudice against f crossing the Leicester and South Down sheep, ! because say they, they so soon become worthless-and the Report of the County of Wellington published in the Agriculturist of June tends to increase this.

Now this cross is known to make a mo-t valuable sheep for general purposes, but if not attended to, they will undoubtedly run out sooner than either of the original breeds kept pure -- and this is the case with all crosses.

The proper method when a farmer wishes to keep this kind of sheep is to breed alternately from rams of the original breeds.

I remain, Sir,

Yours, &c.,

January, 1853.

BONE MANURE.

(Read before a recent meeting of the Frontenac Agricultural Society, at Kingston.)

GENTLEMEN,-

I am sorry to say that although I have used my best endeavor to collect information on the subject of Bone dust, I have not been so successful as I could have wished, owing in the first place to its being as yet little used by the agriculturists in this country with whom I have corresponded on the subject; and, secondly, to the fact of its being applied so extensively in England to the culture of turnips, that I could find little mention of it in "Steven's Book of the Farm," except in connection with turnip hus-I shall, therefore, only quote such; paragraphs from him as relate to the preparing! of bone-dust for manure, it being my opinion, though I speak it with diffidence, that this country generally, and our portion of it particularly, is not suited to the cultivation of turnips on a large On this point I may be mistaken, and it would be a matter of great gratification to me, should what I have now said induce some of our farmers who have tried that kind of culture, and have found the crop a profitable one for any consecutive number of years, sufficient to prove it, was so from the effect of proper cultivation, and only 16 bushels of bone-dust are applied to the not of mere local advantages, or the result of a acre, which, at 47 lbs. per bushel, weigh 7 cwt., chance favorable season, to come forward and give such practical information through our agricultural papers, as may lead to the general culture of that very useful root.

I shall now proceed to consider how bone-dust can be used beneficially to the soil, and profit-

ably to the farmer in this country, otherwise than in the culture of turnips; and for this purpose I shall quote a passage from an excellent article m the Canadian Agriculturist, the whole of which, being written by Professors Croft and Buckland, I need hardly add, merits your most attentive perusal.

"Bone manure is peculiarly adapted to exhausted arable land, and upon poor unproductive pastures, its application has been attended with the most striking results. The soil in such cases having been exhausted of its phosphates by repeated cropping, or as in the case of pasture land by the gradual deprivation of these materials by the milk, cheese, and bones of animals, that have been sold off through a long series of years without any adequate return in the form of manure; a liberal dressing of bone dust speedily restores the equilibrium, by returning to the weakened soil, the very ingredients of which it had been deprived."

You will here observe that particular mention is made of bone-dust as a manure for exhausted pasture, and as such I think it can be more profitably used by us than plaster, in support of which I find mention made of it in a little book called "Walks and talks of an American Farmer in England," written by F. A. Olmstead, who seems well acquainted with practical agriculture, he there says that it is extensively used in Cheshire on pasture land, and that the effect of it is so lasting as to be very perceptible eight and nine years after it has been applied. Stevens also says that when used in large quantities, its effects may be seen twenty years after, its superiority to plaster which requires sowing every year, is therefore self-evident.

I shall conclude by reading the passages from Stevens before referred to, calling your particular attention to paragraph 3,236, where a method of preparing the bones without grinding is mentioned which can easily be carried into effect by. any farmer.

"Bone dust has now established itself as a valuable manure, and with the exception of farm yard dung, there is no substance upon which more implicit reliance may be placed as a fertilizer of the soil, not even excepting guano.

" One of its most valuable qualities is its durability, and in this respect it is superior to farm dung and guano; even in its reduced state when applied in large quantities, as 11 tons to the acre, as used by the Cheshire farmers, its effects are visible 20 years after; this results from the slow decomposition of its inorganic matter in

"It has been ascertained by analysis that 1 ton of bone-dust equals 30 tons of dang; but as this quantity is equal to 101 tons of dung.

"Mix vitriol with twice its bulk of water, put into a large tub double the weight of bone-dust, and pour the mixture of vitriol gradually over it, and in time the bone-dust will be entirely dissolved. The mass may be dried with ashes,

saw dust, or vegetable mould. Uncrushed bones will answer as well, but take longer preparing.

"Oi, (and t is is the paragraph to which I particularly directed your notice) mix four eart loads of bones with as many of sand, and place in a flat topped heap, then thoroughly drench with water. At the end of a fortnight turn over the heap and water afresh; in a month few of the bones will remain whole. In this way large bones may be reduced, but broken bones will of course reduce more quickly."

LONGUEUIL.

DEVON CATTLE.

Editor of the Agriculturist:

DEAR SIR.—As so much is being said in the Agriculturist, by the admirers of Short Horn and Hereford cattle, in favor of their favorite breed; perhaps you will allow me to put in a word in favor of the Devons.

When I was living in the South West of England we usually milked about thirty cows, and at one time a large proportion of them were Short Horns,—they all lived alike—Short Horns and Devons side by side; the land was of excellent quality; the climate as is well known, mild, and humid, and grass almost always plentiful. We finally discarded the Short Horns for the following reasons:—

1st. Because we could keep three Devons on the same quantity of food, which two Short Horns required.

2nd. Because we found the milk from three Devon cows worth more, especially for butter making, than the milk from two Short Horns.

3rd. Because we found the Devons much less subject to barrenness.

4th. Because among a hundred Devon calves you would hardly tind one inferior, all would be uniform and exquisitely symmetrical; but we could not get a dozen Short Horn calves without some coarse and inferior ones among them.

5th. Because when fat the Devons brought about 6d per stone of 8 lbs more than any other cattle, excepting Scots.

Nevertheless I believe the very best tribes of Short Horns are the most beautiful cattle in existence, it would, I think, look like prejudice to deny it; but do they suit the Canadian farmers? Except a farmer can afford to purchase a bull every two years and pay two or three hundred dollars for him, for he must be thorough-bred (or full-blooded as the Canadians term it) his herd will soon deteriorate; and badly bred, long, gaunt Short Horns, are the worst things ever a farmer nad on his place. Crosses after the first never answer; no breed that I know anything of require so much care and judgment.

But crosses from the Devon bull and the native cattle answer better in my opinion, though inferior to pure Devons, they are seldom coarse,

never long legged, and are generally good handlers.

The Devons are equally as hardy in my opinion as the natives. Your respectable correspondent Mr. R. F. Cook, seems to class them with those breeds that require nursing, and high priced food in winter; but I must beg leave to differ from him. As to Herefords I have had no experience among them, what I have seen at Agricultural Shows in England were very fine nimars. My only additional observation is, that I do not at present own any Devon cattle; and therefore am not pleading to fill my own pockets.

I am, dear Sir, Yours, most respectfully, W. H.

LETTER FROM MR. SOTHAM.

To the Editor of the Canadian Agriculturist.

DEAR SIR,—I have no desire to dispute your valuable correspondent Mr. Cameron, as I think he must be mistaken in the place of Showing. I never heard of a bull or breeding cow taking prizes at Smithfield. If so, I shall be very much obliged to Mr. C. to refer me to it. "Bamboo" may have won many premiums, but did he ever show against a Hereford or Devon, it not, there can be no comparison. These two breeds have never come in competition with each other, except at Smithfield, but what the Herefords have invariably proved triumphant.

My bull Tromp, now owned by Hon. Allen Ayrault and one of the "Parsons Rhinocerous tribe," took first prize as a calf, as a yearling, as a two year old, and as an aged bull, but did not compete with Short Horns. I should like to see him shown against "Bamboo," both in the same condition, high, low, or moderate. I should have much pleasure in seeing either of my cows Silla, Rose, Pretty Maid, Sally, Jenny Lind, Bombazine, or Cynthia, shown against Butter Cup, and let merit prove which was champion. Mr. Parsons may again say the "distance" is too far between them, but if Short Horn men feel inclined they can meet. I hope Mr. Cameron will advance some way of bringing them into fair competition, he has only to suggest, and I think he will be met. As Mr. C. has commenced on the ments of this breed I hope he will continue I will not accuse him of "untruth," if he is sometimes "mistaken." He may not be in this instance and I may be proved "in ignorance."

I am dear Sir,
Yours Sincerely,
WM. Hy. SOTHAM.

Piffardinia, N. Y. Dec. 1852.

CANE AND GRAPE SUGAR.

Editor Canadian Agriculturist:

DEAR Sia,-I notice in your January number a short paper descriptive of a process for preparing sugar from Indian Corn and Oil of Vitirol. The process is by no, means new, having been invented by Kirchhoff at the end of last century; but from the description above referred to, most persons unacquainted with the subject would be led to believe that the sugar produced is identical with that of the cane, the beet, the maple, and the corn stalk. Such is not the case, it is grape sugar which is formed :- that peculiar modification which exists in the grape, raisins, figs, honey, and in almost all fruits, and which does not possess more than a small fraction of the sweetness of ordinary cane sugar. It cannot therefore be applied to all the same purposes as this latter kind, although in some few instances it might perhaps be usefully employed. If a person desirous of having his cup of tea rather swe 4, were to employ the starch sugar, he would have to fill his cup with it first, and then add the

I may also take this opportunity of pointing out a rather serious error into which your correspondent, Mr. Moyle, has fallen. He seems to have no very distinct ideas respecting the difference between phosphorus and phosphoric acid; in the lime stone alluded to, the phosphoric acid is combined with lime, and is not in the slightest degree altered by any heat to which it may be subjected. The experiment with decaying phosphorescent wood has no bearing on the question whatever.

I remain, Yours, very truly,

HENRY CROFT.

University, Toronto, Jan. 16, 1853.

HORTICULTURE.

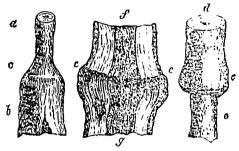
PROPAGATING BY GRAFTING.

When particular sorts of shrubs and trees cannot be procured from seed, or when the seedlings would be a number of years in blowing or fruiting, slips of these sorts, or even buds, are cut off, and instead of planting them in the ground, they are fited to a cut made in another suitable tree or shrub, called the stock, by an operation variously performed, termed grafting, which can only be properly taught by a muster and not by a book.

The principal upon which the union takes place is, that the pulp from the cutting descends to its junction with the stock, where, being excluded from the air and light by a ball of prepared clay, it forms woody fibres instead of roots as it might have done in the ground; while at the same time, the sap from the stock rises into the cutting, whose leaves convert it into pulp.

When the texture of the wood is softer in the cutting than in the stock, the latter interrupts the descent of the pulp, and forms a bulging scar; when the cutting has a harder texture than the stock, the contrary takes place.

In the practice of grafting, only the sorts of the same or similar species succeed. A pear cutting for instance, may be grafted on a quince or apple stock; but not a plum on a cherry stock. The apple, however, succeeds when grafted on the hawthorn or the mountain ash, though much better when grafted on a crab stock.



a, the Pavia Intea, a shrub, which never attains the size of a tree, cleft-grafted on the horse-cheshut, b, a tree of great size. It is remarkable that the Pavia is much enlarged near the junction c, like a tree near the ground, a circulastance which would not have occurred but for the graft. The bark of each remains distinct. d, the white-lame tree gratted on the European lime tree, e; each growing in diameter according to its particular nature, without any intermixture at the line of graft, c; a verticle section. f, g, of on almond tree, f cleft-grafted on a primis, g, showing that not one of the characteristics of the two individuals ever pass the line of gint tion, c, c, any more than the spin grafted on the sould of the cock ever changes its hard horny nature for the soft fleshy nature of the comb.

When one branch of a growing tree or shrub is gratted to the branch of another growing plant near it, the process is termed inarching, but this system is seldom practised, except with rare and choice plants. When a bud from one tree is inserted into the bank of another tree, it is termed budding, and this is exceedingly advantageous to rose trees, for a fine standard rose may thus be obtained by simply inserting bads of good sorts on a stock of the wild rose and the sweetbrier. It is also very useful in filling up the breaches in peach trees trained to the wall, which are sometimes occasioned by the decaying of a large branch.

PLANTING.

It has been previously suggested that this operation should be performed in cloudy or showery weather. It must never be forgotten, in planting, that a plant is a living thing. For this reason it should not be kept out of the ground, or its roots allowed to dry, or these last be much crippled. The new earth should also be placed about the roots with great care and gentleness, and not pressed upon them too violently. October and November are the best months for planting trees and shrubs, because they are then comparatively at rest, and the weather is usually dull and quiet. Where little check is required to be given, balls of earth to the roots must be obtained, if possible, and these

not crushed or pressed against too rudely in planting.

Some recommend the process of puddling, which consists in mixing up soil and water into a kind of thin paste, and dipping the roots of the plants in this; or, in the cases of larger things, planting them wholly in a hole thus pre-As ordinarily pursued, however, the plants might as well be placed in mortar and cement; for, as soon as the mud dries, it becomes a hard cake, which peither water nor air can thoroughly penetrate, and which will partly or altogether prevent the roots from evending. If adopted at all, i. should only be in some modified manner for such thing as cabbages and broccoli.

PRUNING.

Pruning is for the purpose of preventing extra luxuriance, of throwing plants into a flowering or fruit-beating state, or of preserving some kinds from degeneracy. Very strong and very weakly shoots alike require most pruning; for the one class will be to vigorous, and the other too feeble, to be productive. sickly shoots of plants should be printed back much closer than the luxuriant ones; for the object is to produce entirely new ones in the former case, while only shorter branches are desired in the latter, and pruning would merely tend to develope such as were similarly strong,

It is lateral branches and spurs that mostly bear flowers and fruit in some plants, and pruning is intended to multiply these. Hybrid plants and those of which the sorts have been greatly improved by culture, are such as chiefly require, Stopping the young, tender shoots of many kinds may sometimes be preferable, as it hinders the plants from wasting their strength unduly. Even removing the buds that are not required to develope just after they have than is generally believed for plants that will not bleed much, especially if they have to be trained, or if any particular kind of new growth is wanted. Late in the autumn, and early in the winter or spring, are, however, the principal times for pruning. It may be extended to the roots in certain cases, where extreme woodiness is wanted to be restrained.

FLOWERING AND FRUITING.

Both of these states are generally to be brought about where they do not naturally occur with sufficient readiness or force, by a series of checks. Whatever promotes strong or rank growth is decidedly against them. The perfect ripening decidedly against them. of the wood, and in fact, the complete maturity of all the parts, such as a sunny summer and an exposed situation will produce, are necessary to the full development of these tendencies. Transplanting, withholding manure or water, judicious pruning, exposure to the sun and air, keeping the roots near the surface of the ground, slightly raising the plant above the general level, shal-· low soil, and thorough draining, are the best things to produce fertility, when it does not show

itself at the usual period; and, with the exception of stinting the supply of manure and water, they will be beneficial at all times. Deep planting or imperfect drainage, are exceedingly bad; and manure will ordinarily be adverse to flowers. For plants in pote that are prone to become too vigorous, crampag the roots, diminishing the supplies of water, and putting them a good deal in the open sunshine, will do much towards restoring them to the desired condition.

SHELTERING AND PROTECTING.

Shelter from win Is should be given by loose and meshy, not so id materials. Trees and shrubs are better for the purpose than walls, as they stop the force of the currents, while walls Hurdles only divert it and merease its power. filled in loosely with reeds or rough laths, or branches of pine or jurze, are also preferable, in point of shelter, to closely boarded ones, for the same reason.

Shade fron the sur's rays should, in like manner, be thin and part alonly. A few fir branches stack around the plants to be shaded, or some very thin canviss or gauze stretched over it, will generally suffice; the object being merely to break the extreme power of the sun's rays, and net to shut them out entirely. Anything dense or opaque is therefore objectionable. Mulching applied over the roots, to keep the soil very moist, will be a good substitute for a shade in some cases. Plants rarely want shading, unless when they have teen newly removed or are in

Protection from f.ost may be secured by simply intercepting the a diating process. keeps plants moderately dry at the roots will greatly help to protect them; for frosts act far less upon them at that time than when they are in a wet state. A temporary penthouse or a small tent-like canopy, open at the burst, may often be advantageously practised, sides, will occasionally be sufficient both to keep Indeed, summer pruning is of more consequence plants dry and prevent radiation. But in very severe weather they may be covered up more closely, bearing in mind that the point always to attain is to stop radiation rather than to communicate additional heat.

> When plants, by a sudden occurrence of frost or any other accident, become slightly fiozen, and their tissue is not actually destroyed, they may be saved by watering them with cold water just before sun-rise in the morning, and covering them over with a mat or other object which will keep them in the dark until they have gradually The design is to prevent the sun from thawed. shining upon them until they are quite restored.

ROTATION OF CROPS.

Such an arrangement as the change of crops becomes necessary because different plants exhaust the soil of particular elements, and are more or less gross and extravagant in their habits; so that where they have grown one year they will have so much withdrawn the kind of food they require as to be incapable of attaining any perfection on the same plot in the following season. Other kinds, however, coming after them, may not need anything like so much

of the same element, or may not even want it The practice likewise causes a saving of l manure, for when the food a crop requires has not been abstracted from the soil by a previous crov. manure will sometimes be superfluous,-Potatoes, scarlet-runners, broccoli, and the cabbage tribe, particularly demand a fresh soil yearly. Pansies, hyacinths, and other bulbs and florists' flowers that are of hybrid origin, are equally fastidious, if they are to be grown to great perfection.

By ridging up the ground in winter for vegetable crops, and thus admitting new gases from the air, and salts from snow or rain, the totation plan of cropping becomes less ne ressary, though it may neve, be entirely dispensed with. haps when the precise food which every indidual crop requires, and the manures fally capable of supplying such are more thoroughly known changing yearly the vegetable terants of any particular piece of land that best suits a certain tribe, may be almost if not altogether annihilated."

IMPROVEMENT IN BRICK MAKING .- An invention has, it is stated, just been patented in England, for the adaptation of a preparation of coke and other substances, by which bricks, paving slabs, door and stair steps, tiles, pipes, blocks, railway sleepers and other articles of general use by builders, &c., can be produced with a perfection and at a cost which it is expected by the inventor will effect a complete revolution in the building trade. The price at which it is proposed to offer the coke brick to the public is scarcely one-third of the cost of the clay brick, while in point of durability it is superior to the best article supplied from the kilns.

FLAT ROOFS .- All the new houses which have been built in New York recently, have what are termed flat roofs. The roof is nearly level, and old hugpeaked roofs are fast disappearing, we wonder how they ever came into use. ventor of them must have been a man of comical ideas. The flat roofs are covered with tin and well painted. If a fire takes place in a building it is easy to walk and work on the flat roof so as to command the fire if it be in the adjacent building; this cannot be done on peaked roofs. roofs are cheaper and more convenient in every respect. We advise all those who intend to build new houses to have flat roofs upon them. It is far better to have a flush story at the top of the building than a peaked cramped up garret which is only comfortable for travelling on the hands and knees.—Scientific American.

TAKE CARE OF YOUR FEET .- Of all parts of the body, says Dr. Robertson, there is not one which ought to be so carefully attended to as the feet. Every person knows from experience that colds, and many other diseases which proceed from the same, are attributed to cold feet. The feet are at such a distance from the "wheel at the cistern" of the system, that the circulation of the blood all stone pavements now in use.

may be very easily checked. Yet for all this, and although every person of common sense should be aware of the truth of what we have stated, there is no part of the human body so much trifled with as the feet. The young, and would-be-genteel-footed, cramp their feet into thin-soled pinching boots and shoes, in order to display neat feet, in the fashionable sense of the term. There is one great evil, against which every person should be on their guard, and it is one which is not often guarded against-we mean the change of warm for cold shoes or boots. change is often made from thick to thin soled shoes, without reflecting on the consequences that might ensue. In cold weather, boots and shoes made of good thick leather, both in soles and uppers, should be worn by all. Water-tights are not good if they are tights also; india-rubber over-shoes should never be worn except in wet and experimentally tested, the accessity for it is huntful to the feet to wear any covering that splashy weather, and then not very long at once. is air-tight over them, and for this reason inciarubber should be worn as seldom as possible. No part of the body should be allowed to have a covering that entirely obstructed the passage of the earl onic gas from the pores of the skin outwards, and the moderate passage of air inwards to the skin. Life can be destroyed in a very short time, by entirely closing up the pores of the skin. Good warm stockings and thick-soled boots and shoes are conservatories of health, and consequently of human happiness .- Scientific Ameri-

> LIFE PRESERVERS .- One of the most useful and important inventions of the present day is the Life-Pleserving Seats of Mr. George P. Tewksbury. We kn w of nothing since the invention of the Davy Lamp by Sir Humphrey Davy that can be at all compared with the present invention, in so far as relates to the preservation of human life. These seats are in the form o' stools and setters, and are so constructed that whilst they answer the purpose of ordinary stools and settees, take no more room, and are just as portable, they possess such bueyancy that one stool will easily support one person on the surface of the water, and a settee that will seat three persons will support the same number. No steamboat, ship or pleasure boat should be without an adequate supply. government, we understand, are about adopting them in the ships of war and other government vessels, and the time must soon come when they will be in universal demand, and their inventor looked apon as one of the greates' benefactors of our race. We are much mistaken if the Royal Humane Society of England does not show its appreciation of Mr Tewksbury's invention by some sub-tantial token of acknow-We trust, moreover, that our citizens ledgment. will not be slow in manifesting their gratitude for the invaluable boon thus conferred, and not leave it for posterity to do, as has been the case with other benefactors. Another invention by the same gentleman, partaking of the same character, is a life-boat constructed on new principles, and far surpassing any other now in use. Indeed, so admirably is it calculated for its important office, that under no circumstances can it founder, sink, or be inverted, unless it be completely broken.—International.

The Scientific American thinks cast iron pavements for road cays will supersede the McAdams, Russ and

| (| CENSUS R | ETURNS. | •Indian Territory | 678 | Orford Raleigh | 1566 2460 | |
|-------------------------------------|------------------|-----------------------|-------------------|---|------------------------|--------------------------|-------|
| We publish | below an | abstract of the | Total Grey | 13217 | Ronney Tilbury East | 1023 | |
| tion of the | Fownships | of Upper Can | Augusta | 5154 | Zone with Camde | , m | |
| | | | | 4779 | Chatham Town | 2070 | |
| xhibited by the | ie iast cen | sus. | Edwardsburgh | 863 | Chatham 10wn | 2010 | |
| | | | Gower, South | | Total of Frank | 17400 | |
| Popu | LATION OF U | JPPER CANADA. | | Oxford | 4496 | Total of Kent | 17469 |
| | Popula- | • | Popula- | Wolfied | 3259 | | 1000 |
| Townshine | | Townshine | tion | Prescott, Town | 2156 | Bosanquet | 1093 |
| Townships. | tion | Townships. | tion | | | Brooke | 511 |
| Amherst Island | 1287 | Aldborough | 1226 | Total Grenville | 20707 | Dawn | 556 |
| Camden | 6975 | Bayham | 5092 | l — . | | Enniskillen | 238 |
| Earne-town | 5111 | Dunwich | 1948 | Canborough | 1151 | Euphemia | 1457 |
| Sheffield | 1792 | Dorchester | 1477 | Cayuga North | 2013 | Moore | 1258 |
| Bath, abou. 620 | | Malahide | 4050 | Cayuga, South | 824 | Plympton | 1151 |
| 2000, 000 020 | | Southwold | 5063 | Dunn | 820 | Sarnia | 1384 |
| Total Addington | 15165 | Yarmouth | 5288 | Moulton | 1984 | Sombra | 738 |
| Tour Maington | 10100 | St Thomas Villa | | Oneida | 2817 | Warw.ck | 2669 |
| "antford | 6410 | Dt Thomas vina | ige 1214 | Rainham | 1618 | Islands | |
| | | Total Elgin | 25418 | Seneca | 3636 | | |
| antford, Town. Burlord | | Total Elgin | 23410 | Sherbrooke | 334 | Total Lambton | 10815 |
| | 4433 | Ludondon | 1200 | Walpole | 3583 | | |
| Dumfries, South | 4297 | Anderdon | 1199 | | | Bathurst | 2868 |
| Oakland | 810 | Colchester | 1870 | Total Haldimand | 18788 | Sherbrooke South | |
| Onondaga David W.V. | 1858 | Gosfield | 1808 | | | Beelwith | 2540 |
| Paris, Village | 1890 | Maidstone | 1167 | Esquesing | 5225 | Burgess North | 1110 |
| Tuscarora | 1821 | Malden | 1315 | Trafalgar | 6782 | D: thousie | 1421 |
| . | | Mersea | 1193 | Nassageweya | 2237 | Sherbrooke North | |
| Total of Brant | 25426 | Rochester | 788 | Nelson | 4078 | Levant | 98 |
| · | | Sandwich | 4928 | 11613011 | 4010 | | 2649 |
| Arran | 1 19 | Amherstburg, To | wn 1880 | Total Halton | 10200 | Dommond | 2031 |
| Brant | 621 | Tilbury, West | 675 | 101311111111111111111111111111111111111 | 18322 | Elms'ey North | 2649 |
| Bruce | 100 | | | Pallovilla | 45.00 | Lanark | 670 |
| Carrick ? not | settled. | Total Essex | 16817 | Belleville . | 4569 | Darling | |
| Culross & not | settieu. | . | | Hungerford | 3124 | Montague | 3356 |
| Elderslie | 1.1 | Clarendon) | | Huntingdon | 2548 | Packerham | 1868 |
| Greenock | 244 | Barrie | | Madoc | 1 | Ramsay | 3256 |
| Huron | 236 | Kennebec | not | Elzivir | 2761 | Perta Town | 1916 |
| Kincardine | 1449 | Palmerston } | settled | Tudor |) | O) 4 3 CT | 0~01# |
| Kinloss | .17 | Olden | | Marmora | 635 | Total of Lanack | 21317 |
| Saugeen | 277 | Oso | | Rawdon | 3097 | 70 / 1 | 0.440 |
| - | | Howe Island | | Sidney | 4574 | Bastard | 3448 |
| Total of Bruce | 2837 | Kingston | 5235 | Thurlow | 4160 | Burgess South | 276 |
| | | Loughborough | 2003 | Tyendenaga | 6200 | Crosby, Nor h | 1785 |
| Fitzroy | 2807 | Pittsburg | 3258 | Grimsthorpe | | Grosby, South | 1578 |
| Gloucester | 3005 | Bedford | 1118 | Lake | | Elizab thtown | 7087 |
| Goulbourne | 2525 | Po tland | 2388 | | | E-msley | 5208 |
| Gower, North | 1777 | Hinchinbrooke | 364 | Total Hastings | 31977 | Escott | 1399 |
| Huntley | 2519 | Sterington | 2130 | | | Kitley | 3525 |
| March | 1025 | Wolfe's Island | 2654 | Hay | 985 | Leeds | 2283 |
| Marlborough | 2053 | ., 0110 0 1411114 | | Sterhen | 742 | Lai sdowne | 2439 |
| Nepean | 3800 | Total Frontenac | 19150 | McGillivray | 1708 | Yonge | 3661 |
| O :goode | 3050 | | | Biddulph | 2081 | Brockville, Town | 3246 |
| Richmond | 434 | Lancaster | 4023 | U-borne | 1.484 | • | |
| Tarbolton | 542 | Charlottenburg | 5557 | Howiek | | Total of Leeds | 30280 |
| | | Lochiel | 4174 | McKillop | 848 | | |
| Total Carleton | 23637 | Kenyon | 3842 | Grey | | Adol hustown | 718 |
| | | | | Morris | | Fredericksburgh | 3166 |
| Matilda | 4198 | Total Glengary | 17596 | Turnburry | | Richmond | 4071 |
| Mountain | 2764 | - our trongury | . 1000 | Ashfield | 207 | | |
| Williamsburg | . 4284 | Artemesia | 733 | Wawanosh | 722 | Total of Lennox | 7955 |
| Winchester | 2565 | Bentnick | 1272 | Colborne | 924 | | |
| | ~~,,,,, | Collingwood | 545 | Hullet | 955 | Caistor | 1398 |
| Total Dundas | 13811 | Derby | 471 | Tuckersmith | 1727 | Clinton | 2462 |
| Zour Dunas | 10011 | | | Stanley | | | |
| Carturialet | 1750 | Egremont | 665 | | 2064 | Gainsborough Cranthum | 2538 |
| Cartwright Cavan | | Euphrasia Glaveler | 1950 | | 2715 | Grantham | 3215 |
| | 4138 | Glenelg | 1250 | Goderich, Town | 1329 | Grimsby | 2448 |
| Clarke | 6190 | Holland | 954 | Total - Cit. | 10100 | Louth | 1848 |
| Parlington | 8005 | Melanethon | 450 | Total of Huron | 19198 | Niagara | 2250 |
| Hope | 5299 | Normanby | 539 | O 3 | 3.15 | Niagara, Town | 3340 |
| Manvers | 2568 | Osprey | 486 | Camden | 1434 | St. Catharines | 4368 |
| Port Hope, Town | 2476 | Proton | 1 | Chatham | 1768 | · | 00000 |
| m-1-170 1 | Dure 3 | St. Vincent | 1601 | Dover E. and W. | 1723 | Total of Lincoln | 23868 |
| Total Durham | 30732 | Sullivan | 518 | Harwich | 2627 | <u> </u> | |
| | | Sydenham | 2432 | Howard | 2798 | Mosa | 2075 |
| | | | • | | | | |

| | | | | | | | . 1 | |
|----------------------------|----------|---|---------|---------------------------|----------------|-------------------|--------------|--|
| Cens | sus Retu | RSS Continued. | | CENSUS RETURNS Continued. | | | | |
| Ekfrid | 1792 | Toronto Gore | 1820 | Cambridge | 200 | Guelph | 2879 | |
| Carradoc | 3118 | 10101110 (3010 | 1020 | Russell | 503 | Guelph, Town | 1860 | |
| Metcalfe | 1696 | Total of Peel | 24816 | reassort | | Nichol | 2450 | |
| Adelaide | 1079 | | | Total of Russell | 2870 | Garrafiaxa | 2083 | |
| Williams | 2292 | Blanchard | 2780 | Adjala | 1990 | Eramosa | 2350 | |
| Lobo | 2445 | Hibbert | 1191 | Essa | 1507 | Peel | 2435 | |
| Nissouri | 1832 | Fullarton | 1750 | Flos | 545 | Maryborough | 994 | |
| Dorchester | 2570 | Downie | A. | Gwillimbury | 3894 | Minto) | | |
| Delaware | 1861 | Downie, Gore | 2727 | Innisfil | 2341 | Arthur > | 1803 | |
| Westminster | 5069 | Logan | 698 | Mono | 1116 | Luther ' |) | |
| London | 6736 | Ellice | 1328 | Medonte | 2689 | Amaranth | 500 | |
| - | | Easthope, North | 2341 | Mulmur | 766 | Pirkington | 1990 | |
| Total of Mi dle- | | Easthope, South | 1797 | Nottawasaga | 1887 | ٠. | | |
| x93 | 32864 | Elma | | Orillia | 7 | To al, Wellington | 29796 | |
| | | Wallace | | Matchedash | 725 | ·— ` | | |
| Brighton | 3725 | Mornington | 933 | Oro | 2027 | Pelham | 240 0 | |
| Cramahe | 2993 | • | | Sunnidale | 205 | Thoroid | 2735 | |
| Haldimand | 4634 | Total of Perth | 15545 | Tay | 600 | Stamford | 3311 | |
| Alnwick | 836 | | | Tecumseth | 3998 | Crowland | 1.178 | |
| Seymour | 2781 | Belmont | 248 | Tosoronto | 492 | Willoughby | 1352 | |
| Percy | 2605 | Burleigh with | | Tiny | 648 | Wainfleet | 1841 | |
| Hamilton | 5008 | Dummer. | | Vespra | 626 | Humberston | 2201 | |
| Monaghan, South | 1051 | Douro | 1676 | Barrie, Town | 1007 | Bertie | 2737 | |
| Murray | 3725 | Dummer | 1600 | 1 | | Chippewa ~ | 1193 | |
| Cobourg, Town | 3871 | Harvey with Sm | ith | Total of Simcoe | 27765 | Thorold, Village | 1091 | |
| - , | | Methven with B | el- | <u> </u> | | | | |
| Total of North- | | mont | | Cornwall | 4707 | Total of Welland | 20141 | |
| umberland | 31229 | Smith | 533.5 | Osnabruck | 4699 | | | |
| | | Monaghan | 905 | Finch | 1450 | BeverIv | 5620 | |
| Houghton | 1509 | Asphodel | 1678 | Roxbargh | 21:1 | Flamboro, East | 29.43 | |
| Middleton | 1720 | Ennismore | 675 | Cornwall, Town | 1646 | F ambore, West | 3 :33 | |
| Charlotteville | 2780 | Otonabee | 3872 | 1 | | Anca-ter | 4653 | |
| Windham | 2900 | Peterboro' Town | 2191 | Total of Stormen | t 14643 | Glandford | 2008 | |
| Townsend | 4935 | | | | | Bir.brook | 1737 | |
| Woodhouse | 2894 | Total Peterboro | 15237 | Mariposa | 3~94 | Saliflect | 2801 | |
| Walsingham | 3090 | | | ()ps | 2512 | barton | 1735 | |
| Long Point | | Caledonia | 958 | Emily | 2763 | Dundas, Town | 3517 | |
| Ryerson's Island | | Hawkesbury We | | Eldon | 1320 | | | |
| Simcoe, Town | 1452 | Hawkesbury Eas | | Fencion | : 99 | Total, Wentworth | 28507 | |
| | | Longueuil | 1406 | Bexley | ti | | | |
| Total of Nortalk | 21281 | Alfred | 584 | Verulam | 571 | Etob coke | 3483 | |
| | | Plantagenet Nor | | Sommerville | | Vaughan | 7723 | |
| Whitby | 7996 | Plantagenet Sou | ith 643 | _ | | Maskhara | 7752 | |
| Pickering | 6737 | | | Total of Victoria | 11657 | Sea, borough | 4244 | |
| Uxbridge | 2289 | Total Prescott | 10487 | | | York | 10035 | |
| Reach | 3697 | | | Waterloo | 7698 | King | 6565 | |
| Brock | 3518 | Ameliasburg | 3286 | Wilmot | 5297 | Gwillimbury, N. | 1176 | |
| Thorah | 1146 | Athol | 1621 | Woolwich | 3092 | Gwillimbury, E. | 3208 | |
| Rama and Maca | 1403 | Hallowell | 3203 | Wellesley | 3 45 | Whiteurch | 4758 | |
| Seugog | 415 | Hillier | 2962 | Dumfries, North | 3476 | | | |
| Scott . | 1028 | Marysburg | 3542 | | 2248 | Total of York | 48944 | |
| Georgina | 1005 | S. phiasburg | 2834 | Preston, Village | 1180 | | | |
| Oshawa | 1142 | Picton Tewn | 1569 | | | City of Toronto | 30775 | |
| Watel -60 · | ., | m - 4 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 | | Total of Waterloo | 26537 | City of Kingston | | |
| Total of Ontario | 3 576 | Total of Prince | 10000 | | | City of Hamilton | | |
| 7 11 | | Edward | 18887 | Etin. | 3590 | Town of Bytown | | |
| Zorra, East Zorra, West | 3200 | \ | 205 | Puslinch | 3862 | Town of London | 7035 | |
| Zorra, West | 3302 | Admaston | 685 | | | | | |
| Oxford, North | 1378 | Ragot | 734 | RI | ECAPITU | LATION. | | |
| Oxford, East | 2210 | Blythefield | 200 | 1 | 15165 | Huron | 19198 | |
| Oxford, West | 1894 | Bromley | 687 | 1 | 25426 | Kent | 17469 | |
| Dereham | 3614 | Horton | 1142 | Bruce | 2837 | Lambton | 10815 | |
| Norwich | 5239 | Ross | 708 | 100 | 23637 | Lanark | 27317 | |
| Blenheim | 4995 | McNab | 1513 | I | 13311 | Leeds | 30280 | |
| Blandford | 1356 | Westmeath | 1152 | | 30732 | Lennox | 7955 | |
| Nissouri, East | 2118 | Pembroke | 633 | | 25418 | Lincoln | 23868 | |
| Woodstock, Town | | Stafford | 281 | | 16817 | Middlesex | 32864 | |
| Ingersoli, Town | 1190 | Brougham | 438 | | 19150 | Northumherland | 31229 | |
| M-4-1-60-6 3 | 00000 | Gratian | 554 | | 17596 | Norfolk | 21281 | |
| Total of Oxford | 32638 | Wilberforce | 688 | Glengarry | | On ario | 30576 | |
| A 11. : - | | m | | Grey | 13217 20707 | Oxford | 32638 | |
| Albion | 4281 | Total of Renfres | w 9415 | | 18788 | Oxiora Peel | 24816 | |
| Caledon | 3707 | C | 7.000 | Haldimand | 18322 | Perth | 15545 | |
| Chinguncousy | 7469 | Cumberland | 1659 | Halton Hastings | 31977 | Peterboro | 15237 | |
| Toronto | 7539 | Clarenco | อบช | I vrescraRs | 01011 | 2000000 | -0001 | |
| | | | | | | | | |

| Census Reruans Continued. | | | | | | | | | |
|---------------------------|-------|------------------|--------|--|--|--|--|--|--|
| Prescott | 18497 | Wentworth | 28507 | | | | | | |
| Prince Edward | 18887 | York | 48944 | | | | | | |
| Renfrew | 9415 | City of Toronto | 30775 | | | | | | |
| Russell | 2870 | City of Kingston | 11585 | | | | | | |
| Simcoe | 27165 | City of Hamilton | 14112 | | | | | | |
| Stormont | 14643 | Town of Bytown | 7760 | | | | | | |
| Victoria | 11657 | Town of London | 7035 | | | | | | |
| Waterloo | 26037 | | | | | | | | |
| Wellington | 26796 | Total | 952004 | | | | | | |
| Welland | 20!4 | | | | | | | | |

MISCELLANY.

THE PHILOSOPHY OF COOKERY.

From Mrs. Hale's New Cook Book.

Miss Sedewick has asserted, in some of her useful books, "the more intelligent a woman becomes, other things being equal, the more judiciously she will manage her domestic concerns." And we add, that the more knowledge a woman possesses of the great principles of morals, philosophy, and human happiness, the more importance she will attach to her station, and the name of "a good housekeeper." * It is only the frivolous, and those who have been superficially educated, or only instructed in showy accomplishments, who despise and neglect the ordinary duties of life as beneath their notice. Such persons have not sufficient clearness of reason to see that "Domestic Economy" includes everything which is calculated to make people love home and feel happy there.

One of the first duties of woman in domestic life is to understand the quality of provisions and

the preparation of wholesome food.

perform the purposes of the will.

The powers of the mind, as well as those of the body, are greatly dependent on what we eat and drink. The stomach must be in health, or the brain cannot act with its utmost vigour and clearness, nor can there be strength of muscle to

But further, woman, to be qualified for the duty which Nature has assigned her, that of promoappetite of those she loves, the greatest injury gen. which could be inflicted upon them. Often has enemy inflicted, she would scarcely have for-

habits. And many a tender mother has, by pampering and inciting the passions of her young sons, laid the foundation of their future course of selfishness and profligacy.

given-because she has prepared for him food

which did not agree with his constitution or

If the true principles of preparing food were understood, these errors would not be committed, for the housekeeper would then feel sure that the best food was that which best nourished and kept the whole system in healthy action; and that

such food would be best relished, because, whenever the health is injured, the appetite is impaired or vitiated. She would no longer allow those kinds of food which reason and experience show are bad for the constitution, to appear at her table.

We have, therefore, sought to embody, from reliable sources,* the philosophy of Cookery, and here give to those who consult our "New Book " such prominent facts as will help them in their researches after the true way of living

well and being well while they live. Modern discovery has proved that the stomach can create nothing; that it can no more furnish us with flesh out of food, in which, when swallowed, the elements of flesh are wanting, than the cook can send us up roast beef without the There was no doubt as to the cook beef to roast. and the beet, but the puzzle about the stomach came of our not knowing what matters various sorts of food : eally did contain; from our not observing the effects of particular kinds of food when eaten without anything else for some time, and from our not knowing the entire uses of food. But within the last few years measures and scales have told us these things with just the same certainty as they set out the suct and raisins, currants, flour, spices, and sugar of a plumpudding, and in a quite popular explanation it may be said that we need food that as we breathe it may warm us, and to renew our bodies as the**y** are wasted by labour. Each purpose needs a different kind of food. Our frames are wasted by labour and exercise; at every move some portion of our bodies is dissipated in the form either of gas or water; at every breath a portion of our blood is swallowed, it may be said, by one of the elements of the air, oxygen; and of strength giving food alone it is scarce possible to cat enough to feed at once the waste of our bodies and this hungry oxygen. With this oxygen our life is in some sort a continual battle; we must either supply it with especial food, or it will prey upon ourselves—a body wasted by starvation is ting the health, happiness, and improvement of simply eaten up by oxygen. It likes fat best, so her species, must understand the natural laws of the fat goes first; then the lean, then the brain; the human constitution, and the causes which and if from so much waste, death did not result, often render the efforts she makes to please the the sinews and very bones would be lost in oxy-

The more oxygen we breathe the more need the affectionate wife caused her husband a sleep- we have to cat. Every one knows that cold air less night and severe distress, which, had an gives a keen appetite. Those who in town must ticale their palates with spices and pickles to get up some faint liking for a meal, by the sea, or on a hill-side, are hungry every hour in the day, and the languid appetite of summer, and crowded rooms, spring into vigour with the piercing cold and open air of winter. The reason of this hungriness of frosty air is simply that our lungs hold more of it than they do of hot air, and so we get more oxygen, a fact that any one can prove, by holding a little balloon half filled with air near the fire, it will soon swell up, showing that hot air needs more room than cold.

The term housekeeper, in this book, is used in its American significance, the same as " Mistress of the amily," or "Lady of the house."

[†] I have followed chiefly the system of Dr. Andrew Combe on "Diet and Health," corroborated by the authority of Baron Liebig in Ins " Familiar Letters" and " Animal Chemistry."

But the oxygen does not use up our food and frames without doing us good service; as it de-vours it warms us. The fire in the grate is oxygen devouring carbon, whether in the shape of coals in a stove or fat in our bodies, the result of the struggle (if we may be allowed the phrase is heat.

In all parts of the world, at the Equator and the Poles, amid eternal ice and under a perpendicular sun, in the parcaed desert and on the fresh moist fields of temperate zones, the human blood is at the same he t; it neither boils not! freezes, and yet the body in cold air parts with its heat, and just as we can keep an earthenware bottle filled with boiling water hot, by wrapping it in a flannel, can we keep our bedies warm by t covering them closely up in clothes. Fuls, shawls, and herse cloths have no warmth had themselves, they but keep in the natural warmth of the body. Every traveller knows that starting i without breakfast, or neglecting to dine on the effect is very much the same as if he sat to his on milk or meat. meals on the same cold day in a noon without i this account, a starving man is far sconer frezen, the arbumen of the blood. to death than one with food in his wallet. The unfed body rapidly cools down to the temperature of the atmosphere, just as the grate coors when the fire has gone out. Bodily heat's not produced in any one portion of the body, but in every atom of it. In a single minute about 25 pounds of blood are sent illwing through the lungs, there the whole mass meets the air, sucks in its oxygen, and speeding on carries to every portion of the frame the power which may be said to light up every atom of flesh, nerve, and bone, and to keep the flame throughout the body ever burning with the fresh warmth or life.

In accordance with these facts we find men all over the world acting instinctively. In a cold climate, either by necessity or choice, we exert ourselves, quicken the blood's speed, breathed rapidly, take in oxygen largely; in short, fan the flame which quick-returning hunger makes us i feed. Even the least civilized toflow correctly the natural law; the fruit so targely eaten by the native inhabitants of the tropics contains in every 100 onness not more than 12 of direct heat-producing elements, while the blubber and oil of the Esquimaux have in every 160 onnees some 80 onnees of such elements. Nor is it possible without injurious effects to live in opposition to this instinct which science has shown to be in strict accordance with the intention of nature.

So far therefore we have evidence that good may come of method in cookery. Plum-pud-

ding is no dish for the dog-days, but its suet blunts the keen tooth of winter. Nor is it a mere sentimental sympathy that makes the wish to give the poor a good Christmas dinner. Scant fare makes cold more bitter. Those who, poorly clad, must face the wintry wind unfed, shiver doubly in the blast. The internal fire sinks for want of fuel, and the external air drinks up the little warmth the slow consuming system gives.

Milk, when a little rennet is poused into it, becomes eard and whey. The cuid, chemists call animal casein.

When the water in which the meal of peas beans, or lentiles has been steeped for some time, is warmed, and a little acid is poured into it, it always gives a cord called regetable casein, which is precisely the same as the curd of milk. and contains like it, all the ingredients of the

There is, then, no difficulty in understanding road, he teels more than usually cluby; the how one may live on peas, beans, &c., just as

When the white of egg is poured into boiling a fire; the internal fuel, the tood, which is the water, it becomes firm; the substance so formed oil to feed life's warming lamp, is wanting. On a is called animal albumen, and is identical with

> When vegetables are pounded in mortar, the fresh juice expressed, lets fall a sediment which grass gives out largely, and which is also to be had from all kinds of grain. This deposit is the same as the fibrin or lean of flesh. When the remaining clear piece is boiled, a thick jellylike substance is fermed. Cauliflower, broccoli, cabbage, and asparagus are especially rich in this coagulating substance, which is the same thing as white of egg--animal albumen. called, therefore, vegetable albumen, and is, in common with the white of egg, identical with the albumen or blood, which with the fibrin, whether animal or vegetable, is the source of every portion of the human body.

We see, therefore, that the cattle have in peas and beans as casein, in corn and grass as fibrin, in sundry vegetables as albumen, the very materials of their flesh; and that, whether we live upon grain or pulse, beef or mutton, milk or eggs. we are in fact eating flesh; in meat, diet readymade; in the case of the others, diet containing the fit ingredients of preparation. Nor are we left in the least shadow of doubt that albumen, of whatever kind, is sufficient to produce flesh, for not only do we find every ingredient of flesh contained in it, but we can turn the flesh back to albumen.f

But besides the flesh-making ingredients, viz: the albumen and fibrin, we have shown that it is

^{• &}quot;The intelligent and experienced mother or nurse chooses for the child," says Liebig, "with attention to the laws of nature; she gives him chiefly milk and farinaceous food, always adding fruits to the latter; she prefers the flesh of adult animals, which are rich in bone earth, to that of young animals, and always accompanies it with garden vegetables; she gives the child especially bones to gnaw, and excludes from its diet veal, fish, and potatoes; to the excitable child of weak digestive powers, she ration of our food."

gives, in its farinaceous food, infusion of malt and uses milk and sugar, the respiratory matter prepared by nature heiself for the respiratory process, in preference to cane sugar; and she allows him the unlimited use of salt."

^{† &}quot;Among all the arts known to man," says Liebig, "there is none which enjoys a juster appreciation, and the products of which are more universally admired, than that which is concerned in the propa-

needful the blood should have food for oxygen; this also is contained in milk, grain, pulse, vegetables and meat. In the meat as fat, which more or less the juices of the meat and even the lean contain, in the pulse, grain, potatoes, as starch, in the vegetables as sugar of various kinds, and in milk, as sugar of milk.

(To be Continued.)

INTERESTING TO CANADIAN WHEAT-GROWERS.

From the North American.

We observe several signs of an upward tendency in the price of Breadstuffs in England. Perhaps this rise in price may not be felt to any great extent this year, although the "badness of the weather" for some time back is regarded in England as very detrimental to the growing crop. But if, as seems probable, the English farmers will, now that all hope of "Protection" is given up, cease to grow wheat to any great extent, an increase of present prices may be confidently expected in future years. The grain harvest of last year was not an average, and the quality inferior. The Mark Lane Express asserts that wheat will be less cultivated than formerly. That journal thinks present prices will be maintained. correspondent of a Hamilton paper, under date of London, 7th January, says:-

The continuous and heavy drain of gold has induced the Bank of England to ruse the rate of discount from 2 per cent., at which it has stood since the 22nd of April, to 21 per cent. This was resolved upon yesterday, the 6th. One of the principal causes of this raise is the scarcity of breadstuffs at home, and the badness of the weatter. The advices from Odessa last week state that 150,000 quarters of wheat had been purchased for the English inacket, and for this gold has to be provided. Very consistrable shipments of specie will have to be made to the continent, and the desertion of seamen from the ships which have arrived in Australia has prevented arrivals of gold from the colony. where immense quantities are lying in store ready for export. Prices of wheat have an upward tendency, and it, as we family believe, the English farmers will from year to year diminish its growth, prices will rule higher and higher at future periods.

CHINESE JUNKS .- A Chinese ship or junk, is seldom the property of one individual. Sometimes 40, 50, or even 100 different merchants purchase a vessel and divide her into as many different compartments as there are partners, so that each knows his own particular part in the ship, which he is at liberty to fit up and secure as he pleases. The bulk heads by which these divisions are formed, consist of four stout planks so well kaulked as to be completely water-tight. A ship thus form d may strike on a rock, and yet sustain no serious injury; a leak springing in one division of the hold will not be attended with any damage to articles placed in another; and, from her firmness, she is qualified to resist a more than ordinary shock. A considerable loss of stowage is of course sustained, but the Chanese exports generally contain a considerable value in small bulk. It is only the very largest junks that have so many owners—but even in the smallest the number is very considerable. - McCulloch's Dictionary.

Poetrn.

THE FADED HEATHER.

[It is recorded of the Highland emigrants to Canada that they wept because the heather would not grow in their newiy adopted soil.]

There may be some too brave to weep O'er poverty, or care, or wrong, Widin wh see manly bosom sleep Emotions, gentle, warm and strong, Which wait the wakening of a too-. Unmarked, inthought of by the crowd, And seemingly to tace alone. A voice both cloquent and lond; And then the feeling, but for years. Burst touth at length in burning tears,

He wept, that hardy mountaineer,
When faded thus his loved heath-flower;
Yet mid the ills of life no tear
Had wet his cheek until that hoar.
You might have deemed the mountain
Had sooner shrunk before the blast,
Or that his native rock would be
Rent by the winds which hurried past,
Rather than he a tear should shed
Because a wild-flower drooped its head.

It would not grow—the heather flower,
Far from its naive land earled
Though breezes from the forest bower
Greefed the lonely momitain child;
It bester loved the whild bleak wind
Which grew upon the Highland Infl.
And for the rocky heath it placel.
Though tended both win care and skill;
An exilte on a stranger strand.
It anguissed to its native land.

Oh! if the heather had but grown And Hoomed upon a foreign scene, And Hoomed upon a foreign scene, Its owner had not relt above. Though a sad exite to had been; But when he manked his early death. He thought that like his mountain flower, Withered beneath a foreign breach. He soon might meet his band more. And the a stranger and dears, Unweep, uponted and unknown.

ÆRIAL NAVIGATION—Mr. Rufus Pot'er an counces that he "now believes that his Æroport may be put in full operation in two or three weeks of mild calm, pleasant weather." At this season of the year, so long a period of mild, calm and pleasant weather would be as wonderful as Mr. Potter's first voyale. The machine is one hundred feetlong, to be propelled by steam engines and capable of carrying six persons, and traveling forty miles an hom.

REPUTATION AFTER DEATH.—It is very singular how the fact of a man's death seems to give people, a truer idea of his character, whether for good or evil, than they have ever possessed while he was living and acting among them. Death is so genuine a lact that it excludes falsehoods, or betrays its emptiness: it is a touenstone that proves the gold and dishonors the baser metal. Could the departed whoever he may be, in a week after his decease return, he would almost invariably find himself at a higher or lower point than he had formerly occupied, on the scale of public appreciation.—Hawthorne.

ANOTHER VICTIM OF THE RIPPING DELISION.—Marlin Langdon of New York, committed suici to on Friday, while in a state of mental depression, caused by frequent attendance upon the "Spiritual Rapping Circles." The jury which examined the case, recommended that the Grand Jury take measures for the suppression of these circle meetings. Poor Langdon had lost a daughter, and was made to believe that he could become a "medium" and see his lost child. In the effort he lost his reason, and ended his life by cutting his throat.

BEHAVIOUR IN COMPANY .- On the subject of behavious in company, Leigh Richmond gives the following excellent advice to his daughters : -- "Be cheerful, hut not gigglers. Be serious but not dull. Be communicative but not forward. Be kind, but not servile. Beware of silly, thoughtless speeches; aithough you may forget them, others will not. Remember that God's eye is in every place, and His ear in every Beware of levity and familiarity with young men; a modest reserve without affectation, is the only safe path. Court and encourage serious conversation with those who are truly serious and conversable; and go not into valuable company without endeavoring to improve by the intercourse permitted you. Nothing is more unbecoming, when one part of a company is engaged in profitable and interesting conversation, than that another party should be trifling, and talking comparative nonsense to each other.

THE FIRST NECESSARY OF LIFE.-Potatoes contain 76 per cent, by weight, and turnips no less than 90 per cent., of water, which explains, by the way, the small inclination of turnip fed cattle and sheep for drink. A pecisteak, strongly pressed between blotting paper, yields nearly four-lifelis of its weight of water. Of the human frame, bones included, only about onefourth is solid matter (chiefly carbon and nitrogen), the test is water. If a man weighing 10 stone were squeezed flat under a hydraulic press, 72 stones of water would run out, and only 21 stones of dry residue would remain. A man is, therefore, chemically speaking, 45 lo. of carbon and nitrogen diffused in 5½ paintuls of water. Beizelius, indeed, in recording the fact, justly remarks that "the living organism is to be regarded as a mass diffused in water; and Dalton, by a series of experiments on his own person, found that of the food with which we repair this water built fabric, five-sixths are also water. Thus amply does science confirm the popular saying, that water is the ' first necessary of life." - Quarterly Review.

THE WIFE'S UNIVERSAL RIVAL -It must ever be borne in nand that man's love, even in its happiest exercise, is not like woman's; for white she employs herself through every hour in tond y weaving one beloved image into all her thoughts, he gives to her com_ paratively lew of his, and these perhaps neither the lottiest nor the best. It is a wise beginning, then, for every married woman to make up her mind to be forgotten through the greater part of every day; to make up her mind to many rivals too, in her husband's attentions, though not in his love; and among these I would mention one, whose clami it would be folly to dispute, since no remonstrances or representations on her part will ever be able to render less attractive the chains of this competitor. I mean the newspaper, of whose absoroung interest some wives are weak enough to evince a sart of childish jealousy when they ought i rather to congratulate themselves that their most formidable rival is one of paper .- Mrs. Ellis's Wives of England.

A PICTUPE OF THE TRUE GENTLEMAN.—The true gentleman is one that is God's servant, the world's master, and his own man; his virtue is his business, his study his recreation, contentedness his lest, and happiness hi reward: God is his father, the Church is his mother, the saints his brethren, all that need him his friends, and heaven his inheritance; religion is his mistress, piety and justice his ladies of honour, devotion is his enaplam chastity his chamberlain, so-briety his butter, temperance his cook, hospitality his housekeeper, providence his steward, charity his treasure, piety his mistress of the house, and discretion the porter to let in and out as is most fit. Thus

is his whole family made up of virtues, and he the master of his family. He is necessitated to take the world in his way to heaven, but he wal s through it as fast as he can, and all his business by the way is to make himself and others happy. Take h m in two words, he is a man and a christian.—Coment Ellis, a divine of the 17th Centary.

NIAGARA FALLS AND LAKE ERIE - Professor Silliman, the eminent geologist, eiseredits the opmon advanced by some, that the gradual wearing away of the rocks of Niagara Falls, may possibly result in draining Lake Erie. In a recent lecture he icmarked :- They will not halt at their present station, but retreat slowly and surely about two miles further, where they will stop again for an unknown period, and probably forever, since at this piace the hard limestone will form both base and top of the falls, and thus stop the rapid destruction of the rock. Some have thought that they would final y reach Lake Eric. and that then the Lake would be completely drained. Such an event is imposs ble. At the point already mentioned, the torrent will gradually wear away the surface of limestone, forming a rapid, and henceforth Niagara will be one of the lost wonders of the world.

Lime Water, for Hens—Accidental Discovery. During the last season, Mr. Joseph Wilcox, of this town, having occasion to administer im water to a sick hoise, inadvertently left a pail of the preparation in his barn, which remained there for some months, serving as a favourite drink for his hens. He soon found that the laying of his hens was apparently increased to a considerable extent. Being convinced of the importance of the (to him) new discovery, he has during the present season, kept his hens constantly sapplied with hime water, placed in troughs within their convenient access, and the result was an increase in eggs of nearly four-fold as compared with previous experience.

He is willing to share the benefits of the experiment with his neighbours if they choose to try it; and hence this publication. The newness of the disc very (though it may not be new to all) is claimed only as applicable to the mode of imparting the lime to this case. Its use in another form for the purpose having been previously understood by many.—Wayne Sentinel.

Monster Fossic Remains .- In the river bank, at Zanesville, Ohio, it appears that some g gantic fossil remains have been d scovered; which are the third of the same species discovered within three years. The Courier says :- The one found yester ay was in much the best condition, and may when com, letery exhumed show almost the entire bones and frame of the huge monster, much beyond, pech aps double, the size of the living Asiatic or African elephant. The molar teeth, four in number, all that the species possesses, were found in the jaws sound and unbroken, and two weigh fourteen pounds each. The tusks were not in as good condition, only one being sound en ugh to bear moving. This one, only 8 feet in length, measures at its its base 261 inches in circumf rence, and at the point 8 feet distant; where it is broken off 101 inches in circumference, the whole length of which was probably 12 feet more. We learn that it. was intended to postpone the exhumation of the other portion of the remains for a day or two, in anti-cipation of the arrival of our old townsman, John W. Foster, Esq., U. S. Geologist from Lake Superior."

If a proud man makes me keep my distance, the comfort is, he keeps his at the same time.

Dr. Howe has examined almost the entire number of cases of idiocity known in Massachusetts, and the result is, in all but four instances, that the parents of these idiots were either intemperate, addicted to sensual vices, scrofulous, predisposed to insanity, or had intermarried with blood relations. Here, then, is a warning, that is food for reflection.

Three aged men, natives of Germany, now reside in this city, says the Detroit Free Press, in the closest bonds of friendship. So amicable are they in their relations, one never undertakes anything without con-ulting the others, and they live together as brothers, though no tie of relationship exists between them While in their native land, and yet youthful, they formed a league of amity which has never been broken.

HORACE GREELEY A FARMER--About 30 miles from New York city, on the line of the Harlem Railroad, Horace Greeley, of the Tribune, has a farm of thirty acres of bog, swamp and mountain rocks, on which his future home is now building. It is near Charque, in Westchester county. Here the city Editor will play the country farmer and having money to spend, will doubtless employ himself in making "the wilderness blossom as the rose," and reap profit in health and happiness, if in no other shape. - The Plow.

The Chinese do everything different from other cople. We have a "jack" for pulling the boot people. from the foot; the Flowery Land people, on the contrary, have an instrument for pulling the man from the boot. Having first placed the brogan in the vice, they apply a yoke-shaped lever to your neck, and this is worked by a self-acting wheel that only stops its action when your boot or head comes off. Ingenious, isn't it?

A curious case of somnambulism is recorded in the Chillicothe Gazette. A daughter of Mr. Kaine arose from her sleep, and in her night clothes walked four miles up the Sciota river, wased into the stream, and swam across a deep part, and was found by an " carly riser" sitting on the bank of the river-asleep! Remarkable enough, as the girl was only thirteen years old, and couldn't swim when awake!

WONDERFUL COAT.—A clever tailor of Highworth has accomplished the feat of making four coats when in reality it is only one. He has manufactured a coat which when first put on is a very good blue; he gives it a turn and a shake, it is transmogrified into the sombre hue of mourning; he inflicts another turn and shake and he appears in the Quaker garb, a real Simon Pure; and by another turn and shake he comes out a native of the ' land of cakes," in genuine Scotch plaid. Every change fits equally well without discovering to view the other colors.-Wilts Eng.

More Cotton From India.—Mr. Fleming, Secretary to the Manchester Commercial Association, received advices from the Secretary to the Hon. East India Company, on Saturday, that the Court of Directors had instructed Mr. Wm. Rathbone of Liverpool, to forward to him for sale in Manchester two consignments of cotton; one amounting to 500 bales, per Chancellor, and the other to more than 1000 bases, per Loch Lommond, shipped at Bombay. These are the largest consignments yet made of cotton grown under the experiments making in India to encourage its cultivation there, and they consist chiefly of Dharwar cotton raised from New Orleans seed, the growth of 1850-51. There are, however, amongst this cotton some lew bales grown at Schwan and Hyderabad (Scinde), Candeish and Kurrachee.

GOOD NIGHT.

BY SHELLEY.

Good night 1 ah no 1 the hour is ill Which severs those it should unite; Let us remain together still-Then it will be Good night.

As dimmer grows the sinking light of day,

TWILIGHT.

BY WM. SYDNEY THAYER.

A thousand shapes, by numble fancy brought, Float from mysterious regions far away Upon the rising tide of peaceful thought. All that gives glory to our childish years
All that into the past the heart can bind,
Youth's fleet winged visions thronging joys and fears,
Gide through the ghostly labyrinths of the mind. Now Aspiration, near the breaking morn, Raises triumphant her rejoicing psalm; And Hope, long sading over seas forlorn. Is kissed by gales that tell of endless calm. Now, from the opening skies upon the earth, Descends the bloom primeval; now appear The visions that do have immortal bigh. The thoughts that make our human life more dear.

WHITBY AGRICULTURAL SOCIETY.

The annual meeting of the Agricultural Association of this Township was held in the Town Hail, Brooklin, on the 26th inst The Refort of the Secretary, John Ritson, for the past year was read and adopted, which shows a balance in each on hand to commence the operations of the New Year of£25

The receipts are balance on hand 1st January, 1852, Cash Lom Subscription 0 10 Entry Fees 0 30 10 6 Government Grant.....

5 £98 8 Disbursements. Paid Premiums at four Fairs..... £60 15 0 Do. do Ploughin Match.... 1 17 6 Judges' Dinners,..... 5 12 Incidental expenses G

Cash on hand.....

3 £98

29

The propriety of organizing a County Society was discussed, and resulted in the following resolutions: Moved by J. II. Perry, seconded by John Shier,

Resolved-That this meeting fully approve of the forming of a County Agricultural Society for Ontario.—Carried.

Moved by E. Birrel, seconded by John Clark,

Resolved-That the President and Directors of each of the Township Agricultural Societies shall form a committee, and take such means as to them may appear the best, to procuse members of their respective Township Societies to form a County Society, and to call a general meeting of them and all others likely to join the Society, f r the purpose of appointing office bearers for the present year, and that such general meeting shall take place upon the second Wednesday in February, at the Free Church, in Whithy Village, at 12 d'clock, nood.-Carried.

The officers elected for the Whitby Brench for 1853 are: President, John Ritson; Vice-President, John Dow, Secretary, J. H. Perry; Treasurer, John Corbet. Directors:—A. Farewell, James Corbet, John Ratcliffe. John Shier, Joseph Pierson, James Mitchell, Benjamin Rodgers, Thomas Lumsden, and James Pile.

The first meeting of the Directors wal be held in Whitby village on Wednesday, the 9th of February, at 9 o'clock, A. M .- Reporter.

USEFUL RECEIPTS.

We are indebted to a fair correspondent for the following Receipts, which have been taken from the most trustworthy sources, and some of them verified by the writer's experience. Many of our lady readers could doubtless furnish us with something that would be useful in the family from their daily domestic duties and experience. We respectfully solicit their co-operation in attempting to improve and enlarge this department of our Journal.—Ep.

LIQUID GLUE.

Pour naphtha upon shell-lac until of a creamy consistency, and keep in a bottle, never allowing it to remain uncorked for any length of time. This glue will unite iron, wood, glass, &c.

A CHEAP BUT GOOD TOOTH-POWDER.

Cut a slice of bread, as thick as may be, into squares, and burn in the me until it becomes charoout; after which p und in a mortar, and sitt through a fine muslin. It is then ready for use.

TO REMOVE INK STAINS FROM WOOD.

As much oxalic acid as will 'ay on a sixpence dissolve in a tablespoonful of hot water, lay some on the wood and rub hard with a cork until the stain disappears; then wash and re-polish. The above will remove the stain without injury to the wood—mahogany, or any other. It also cleans the brass work.

PARSNIP WINE.

Take fifteen pounds of sliced parsnips, and boil until quite soft in five gallons of water; squeeze the liquor well out of them, run it through a sieve, and eadd three pounds of coarse lump sugar to every gallon of liquor; boil the whole for three quarters of an hour; when it is nearly cold, add a little yeast on toast. Let it remain in a tub for ten days, stirring it from the bottom every day; then put it into a cask for a year. As it works over, fill it up every day.

FOR PICKLING EGGS.

If the following pickle were generally known, it would be more generally used. It is an excellent pickle to be eaten with cold meat, &c. The eggs should be boiled hard (say ten minutes), and divested of their shells; when quite cold put them in jars, and pour over them vinegar (sufficient to quite cover them) in which has been boiled the usual spices for pickling, tie the jars down tight, with bladder, and keep them until they begin to change colour.

FOR CHILBLAINS.

Take boiled rain water one ounce, lunar or silver caustic one scruple, dissolved. Then with a swan feather give the place a coating of the above; if it turns black in a few hours the chilblains are cured, if not, give another coating. Should the chilblains be broken, touch the parts round by the edges of the

holes. Use a clean feather every time. It is sure to cure, though they be broken.

FOR A COUGII.

Quarter of a pound of linseed; quarter of a pound of raisins; two ounces of stick liquorice; two quarts of soft water, to be boiled until reduced to half the quantity. When strained, add a quarter of pound of brown candy, pounded; one tablespoonful of good old rum, one tablespoonful of leman juice or vinegar, A cuptul to be taken on going to bed, and more frequently, if required. To be warmed. Used for years, and approved.

A VERY EXCELLENT AND CHEAP CAKE.

Two pounds and a half of flour, three quarters of a pound of sugar, three quarters of a pound of butter, half a pound of currants, or quarter of a pound of raisins, quarter of a pound of orange peel, two ounces of caraway seeds, half an ounce of ground cinnamon, or ginger, four teaspoonfuls of carbonate of soda, mixed well with rather better than a pint of new mik. The butter must be well melted previous to being mixed with the ingredients.

ECONOMICAL FAMILY PUDDING.

Bruise with a wooden spoon, through a colander, six large or twelve middle-sized boiled potatoes; beat four eggs, mix with a pint of good milk, stir in the potatoes, sugar and secsoning to taste; butter a dish; bake half an hour. This receipt is simple and economical, as it is made of what is wasted in most families, viz., cold potatoes, which may be kept two or three days, till a sufficient quantity is collected. It is a weakly dish at our table. A teaspoonful of Scooch ship maimalade makes a delicious seasoning.

WEATHER, MARKETS, &c.

The present winter, so far, has proved a great ontrast to the last. Up to the beginning of the contrast to the last. year, most field operations could be carried on in the western section of this Province, and the mean temperature ranged very high. January has been a seasonable month, moderate frosts with heavy falls of snow, so that the wheat plant has been sufficiently protected, and good sleighing afforded the farmers for hauling fire-wood and timber, and getting his produce to market. All kinds of produce continue to fetch remuncrating prices, and a healthy trade seems to be opened for the future. Flour in Toronto market ranges from 21s a 23s 9d per lairel; Wheat 4s 3d a 4s 9d per bushel; Barley 2s 3d a 2s 6d; Oats Is 8d a 1s 10d; Peas 2s 6d a 3s; Butter, Meat, Eggs, &c., continue to maintain comparatively high rates.

From England we hear that a succession of heavy rains during the last three months of the year had produced destructive floods, and had consequently retarded wheat-sowing, in some localities, indeed, very little wheat had been deposited up to Christmas, and what had been sown on wet ground was greatly injured or perished. This evil had been more or less, experienced both in Scotland and Ireland, and must tell heavily on the crops of next harvest. The potato rot was extensively prevalent.

EDITOR'S NOTICES.

HON. ADAM FEAGUSSON ON DURHAM STOCK-TOO late for the present number; it shall appear in our

AGRICULTURAL JOURNAL, AND TRANSACTIONS OF THE LOWER CANADA AGRICULTURAL SOCIETY. Montreal.

The January mumber, forming the commencement of the 6th vol. of this useful periodical, is before us. and we offer our hearty congratulations to its persevering Editor, Wm. Evans, Esq., and the Directors of the Lower Canada Agricultural Society, under whose auspices it is published, on the success which has evidently attended their labours. The present number of the Journal bears marks of a healthy progress; and when the Board of Agriculture for Lower Canada shall have been organized, in accordance with the provisions of the new Agricultural Statute, and shall have got fairly into operation, we shall confidently look to the pages of our respected contemporary (presuming it will be made the organ of the Board, as it is now of the Society) for much valuable and interesting information. We never turn over the p. ges of this Journal without discovering a large amount of plain, sound, practical information, which constitutes by far the most useful characteristic of an Agricultural periodical. From the Editor's long experience in practical farming in the Lower Province, we confidently look to the increasing usefulness of the paper which is entrusted to his hands: and most sincerely do we hope that the only kind of rivary between the two Boards and Journals of this noble Province may be that which consists in doing, the largest amount of good in its respective section · Ato the country at large.

The CANADIAN JOURNAL; A REPERTORY OF INDUSTRY, Science, and ART. To.onto: Hugh Scobie. 1853.

This va uni le serial fully sustains, as it proceeds, the high estimate of merit which we expressed at its commencement. It is conducted with much ability and judgment; and as being the organ, and, therefore, containing the proceedings of THE CANADIAN INSTITUTE, a young and already vigorous Society, it can harely fail, we should hope, to command the confidence, as it most richly deserves the support, of the thinking and improving portion of the public. The January number is enriched by much valuable original matter, and the extracted articles evince a sound. discriminating judgment. We regret that we cannot make room, as we intended, for the eloquent and instructive annual address of Captain Lefroy, the President of the Institute, contained in the present number. Many of our readers will regiet to learn that the country will shortly be deprived of the valuable scientific services of Captain Lagray, the able and accomplished Superintendent of Her Majesty's Magnetic Observatory, near this city; but we earnestly

hope that means will be devised of continuing unbroken the interesting and important series of observations which have been for many years so accurately and systematically made in that Institution. Both the Canadian Institute and the University, we are glad to learn, are moving with a view to secure this object through the intervention of the Provincial Government. It would be alike a misfortune and a reproach to suffer the Magnetic Observatory to become extinct, and we should be glad to see the field of inve-tigation enlarged,-embracing astronomy, &c. Our agricultural readers even, are much more deeply interested in several of the inquiries and observations made in such an Institution than would at first sight appear; and we hope the time is not far distant when Canada will take a respectable position am ng civilized nations in carrying forward the higher branches of science and art. With this view we carnestly entreat all well wishers of their country's enduring welfare and progressive advancement to extend a prempt and liberal support to all such organisations as TRE CANADIAN INSTITUTE, and its Journal of Transactions. The price of the Journal, published monthly, is fifteen shirlings per annum. Country members' subscription is only one pound per annum, including copy of the Journal.

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VERY superior Four-Year Old BULL, bred from a thorough-bred Durham Bull, and thoroughbred imported Hereford Cow.

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JOHN IRELAND.

Crosby Corners, P. O., Markham, Canada West, December 23rd, 1852.

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