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## OF THE BOARD OF AGRICUIIIURE OF UPPER CANADA.

VoL. $V$.
TORONT(), FEBRUARY, 1853.
NO. 2.

## AGRICULTURAL ADDRESS.

The anmal meeting of the Township of Ponthand Admerrifemat. Nociery was beld at Spike's Corners Jan'ary 10 1853, who the fulluwing address was delivered by Aads Came aun, Eslu., of Kimgston, the President of the County Suciety. The practice of delive ins prepared addresses at mectinga of this kind, is, we are gled to obsrre, on the increase, as it tends to give a chatater and usefuluess to the proncelings, which they cunid nut utherwise possess. There are many points in Mr. Cameion's very usetal and practical lucture that have a general interest and application :-

Genilimey,-The indisposition which has hitherto prevailed amongat practical famers generaly, th this section of the couthy, to become nembers of Agricoltural Societies, is matter of tegret to the few of them who eltentain hisht opinions of the advantage: which such sucteties are capathe of atfording. 'This indespostion is but too plainly retified by the facts, th:t while sume of the Townspipe maintain an society of this description, the annual exhibitions of those which do, are suppoited and altended but by a small proportion of the farming community. The County Show, held in the month of October last, although a great improvement on past mectings of the kind, as lar as regarded horned catle, sheep and swime, was qune a falling off in matay respects, and especially as'regards the number of agiculturists mantendance, mad in the quantity ol gram, dairs produre, and home woilen manufactures, althumin the amount distributed in plemiums exceeded the average of furmer occasions of the tind. The office Beaters of the Cumbly Society, for the pasi year, earnestiy desiruts of a change for the better in this respect, are now making every exention in their power to awaken a more lively and extended interest in the great work of agicultural improvement in the several townilips throughout the County. It has frequently been urged as a plea for not haviugjoined such societies in times past, that the provisions of the Agricultural Society Act were not known generally in the count.f, and especially that section which limited the period fur subscribing as members, of township and county
societies, to the last days of January and February. To remedy this in future, the act has been rut into possession of the several township authorities, and there is yet good tume for the people in each lucality to avail themselves of its advantages for the current year. It has also somerimes been assigned as a reason fur refusing to become members, that although the intention of the law was worthy of approbation, the manarement of the society was bud. In reply to this it may be stated that it is very difficult, if not impussible, to please all parties in a matter of this kind. Improvement in this respect may perhaps be required as mech as in our farm practice, but centainly 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 hau', , as once a year they select their offiee-beare-s; the tules and regulations are sulj, ct to st alterations and amendments as the membe - may think proper, so that past errors may be - rled, and progressive improvement from rew suguces of inlormation, and from practical experietce, may be the result.Those who the most c!. tily perceive the errors in the past managemes, ifuuld be conterring a benefit on the country io heing present at all the deliberation.s and meetings, with a view to secure all desirable amendment. On the same principle on whieh agrocultüral sucieties have been pronounced by competem authority, to be advantageous to the farming interest in the three separate portions of cur mother conntry, we may oafely admit they could be reudered so in Canada. There the practical temant farmer, utder heavy rent, the man of science, and the wealhy landlurd, contibute to their support. Professor Johmston, in his "Notes on North America," says of that comtinent that "as to the condition of agriculture as an aft of life, it camot be denied that in this region, as a whole, it is in a very primitive cundition." He also says that "lithle knowledge of improved agriculture has hitherto been diffased 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 only knew how to use it, all political power is in reality in their hands."

It would serve no nood purpose, on behalf of the farmers of Canada, to deny this charge on paper; 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 sur farms witn the plough corroberated by the presence of comfortable and convenient housing tor r.an and benst-improved breeds of live stack, in good keeping-a more general use of labor-saving implements-more attentinn 10 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 an early day a better state of things in Upper Canada than he witnessed on his visit here in 1849 :
"The superior class of setters, of whom so many are seatlered over Upper Canada, will greaily faciltate the adoption of such means of improvement as are usually employed byAgricultural Societies."
This anticipation of improvement, by means of Agricultural Societres, is worthy of our attention, and is a strong recommendation to every farmer, especially, if not to every resident of the Province, to countenance by his presence, and to aid by his subscription the formation and praceedings of such societies. To this learned and respected author we are more inde bted for having 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 to abate our exertions.
The truth of the Professor's remarks is verified in the following extract from 'Scobie's Almanac"' for 1S53, showing the average produse per acre in Upper and Lower Canada, omitting the frac-tions:-

|  |  |  | U. C. <br> Bushels. | L. C, <br> Bushels. |
| :--- | :--- | :--- | :---: | ---: |
| Wheat, | - | - | 14 | 7 |
| Barley | - | - | - | 20 |
| Rye, | - | - | 12 | 15 |
| Pease, | - | - | 14 | 7 |
| Oats, | - | - | 25 | 7 |
| Buck Wheat, | - | - | 14 | 15 |
| Indian Corn, | - | - | 24 | 10 |
| Potatoes, | - | - | 64 | 17 |
| Turnips, | - | - | 212 | 60 |
| It |  |  |  |  |

It is difficult to acount for the smallnes of this a derage yield per acre in any othe; way than by admitung that the average of our farming practice is bad; or by libelling our elimate or soil, if not both, and assertug that in one or boih hes the deficiency-and this allegation is annually refured in the abundant crops rased by the skilful portion of our farmers throughout the Province. The traveller very often sees, it: the most fertile and best cultivated parts, strking illustrations of the differeuce between the gouc farming and the bad on aljoining lots of nearly equal virgun 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 pruceedings of Agriceltcral Societies, their exhibitions and competitions, and the public decisions of their judges, have a teudencyto itnprove the judgment of all attentive observers on such vecasions; 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 discenning 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. Orie farmer alone, liowever, desirous of improving his live stook, can seldom afford, in the present state of our progress, to purchase 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 aldition to the value of farm stuck that superior males had been supplied to all the female breeling animals; indeed, few of the farmer's outlays yield so profitable a return, To cause extensive and minute mspections and comparisons of whole farms, and of the vaisus methods in practice upon them, and to sum up the several results, duly reportme thereon for the public information, as practised by many societies, cannot fall to excite errsiation, not only on the pant of those immediatery con-cerned-the examiners and those px:minedthe society to which they belong, but also thoughiout, the whole neighborhood; and in no branch of their varied duthes have Sucheties done more good in the muther country than in the degree of perfection to which they have been mainly instrumental in bringitry the construction of the plough and thus imploving its operations.
The plongls generally in use in this vi. inity at present may have been fit i.sstruments when thene 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 furrow slice as required on clear sod land of an even surface; as proof of this, wilness our County Plonghius Match, in October last. The plougths ing to which was awarded the frst premium, was even in the estimation of the plonghman, 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 grond resnlt 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 convement distance, has greally retarded our progress hereabout in ploughing; if we had some of ti:e ploughs made by the Messrs. MacSherry, near Queenston, or by the Messis. MaTavish, of Bowmanville, the workmanship at our ploughing matches would soon show a dif-
ferent finish. That inese remarks ou 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 ma: :y furmers have, duriur the last season, mate great exertion to find in Kingston or the surromding townships, a plough capable of cutting a rectangular turrove slice, nearly $6 \times 9$ or $7 \times 10$ inches, am! turuing 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 pioughing matches, and should any vender of ploughs cousider himself wronged by these remarks, or deem them untrue, he will be entitled to reasonable satistaction, as well as an increased demand for his ploughs, or las giving proof that they are fit to do the work as required. The decision of judges in awarding premums for the best ploughs at socreties' exhibitions, witnont any trial of ihe work they are capable of performingr. may sometimes happen to be right, and may aloo ofien 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 nore deserving mechanic, the sale of the mervor article is promoted, and that of the sujerior is discommenanced. And this injustice is not oaly the bad consequence of these erroneous deciatous on plough- - they also mislead farmens to pu.chase the worse instead of the better implement; and have a tendency to lessen the condudence of both mechanics and farmers in the proreedings of such societies. The ordering of ploughs trom a great distance, allhough pethaps; a benter altertative than to continue the use of a bad one, is by no means so safe for the farmer as a home supply, if equal'y grood, because where the meehimucal skill is wanting to make a good plusish, it may also be wantmig to kerp in order, should it happen to meet with ata accident; from this want of mechancal skill, so much felt in this nelghburhood, the utility of a soriely may be understuod, as its exertions would be more eflicacious to supply the want, than would in divilual efforts. It may be rematked by some that as ous societtes have been for many gears in opeation, they should betore now have supplied this want; but again, how can practucal tamers expect 20 find their wants thus supplied unless they take some pains and contribute the needful meaus to keep such societies in successfull oper.tion; which as is stated in the out set, they are very apathetic in domg. Let this now be remedied as soon as we can, by each farmer contributing his dollar towards the soctety of the township to which he belongs, and another towards the Cuunty Society. Let all attend their meetings, elect olizicers and directors in whom they have coufidence, and under the new act of Parliament, adopt such rules and regulations as to the majoity may seem best suntell to promste the great object, not only of agreculture but of genlial improvement; not narrowly looking for an immediate cash return in premum, but hberally contrabuting their mite to the support of an
association, which is designod to be instrumental in disseminating a spint of improvement.
The meeting was verv attentive during the delivery of the address, and the proceedings highly satisfactory to all present. Thanks wern then voted unamimously to Mi. 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. Sinke, Secretary.

## cultivation of the grape.

In the last number of the Plough, an interesting desicription is given of Dr. Underhill's vineyard, the largest in the State of New York, near Sing Sing, on the Ifudson. It consists of about 30 acres; three-fourths are planted with the Isabella, the remainder with Catawba, Alexandria, Nuton's Secellings 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 himd admitting of safe and profitable cultivation in open vincyards in the northern States. The Catawha is an excellent variety, but it will not pruperly ipen in mure than one year out of three. It is stated that the Doctor's vineyard, which is favorably simated as regards the New York market, is far moce profitable than if planted with the best surts of apples and other froit; and the cuitivation, 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 phaces 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 sume form seems cssential to the grape. It is a capital practice in planting to dig deep trenches, and fill in with fresh soil, all sonts of vegetable mbbish, 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 ts the full action of sum, 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 be a sound aphorism. The cutting away of leaves, however, for the purpose of admitting light and heat to the fruit, should be very cautiously performed; but in order to secure bunches of large size and of the finest flavor, it is of imporlance to keep down the number, by the early removal of such as are too thick and inferior. Large berries can be obtained by carefully removing by the fingers, early in the season, all the smaller ones found on the same bunch.

## CAVAN AGRICULTURAL SOC1ETY.

We bave been requested by the Directors of this Soctety to publish the Address delivered by the President at its late amual 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,
fresident of the cavan agriculitural socifity.
C..rlemen, - (For I belipve t!ate are no Ladies present, having been prevented from attending, no doubt. from the puffavorable state of the weather, which is ruch to be regretted,) In conformity with a recutly adopted By-law of your Suciety, the duty of delivering a winten address on subjects comected with the science of Agriculture, devolve; upon me as your Piesident; but I am sorry to say that 1 come before you very badly prepartd for sucin an impulant task. I might begin and tell you that I have been pressed for time, ard make cther. what may appear to me very vaid excuses, yet 4 confess that although i should te telling you the truth, and nothing but the truth, titesp would not jusitity me in your eyes for having neg'ected a duly which you nac a right to expect me to perform; therefore, I consider it more crediable to piload guilty at once of a deteliction of duty, rather tha $n$ attempt an excuse, and so throw myself on your mercy, 1 Gady to submit to whatever penalty the Drectors of your Suriety may thisk proper to inflict. These ill-digested and hurried remarks I only commenced to put togeiher last eveming, and concluded this moruing on the Stow ground; therefore what I have to say is quite an abridgment and cutailment of what I had previonsly intenced, so that I fear it will hardly merit the appellation of an "Agicultural Address." My will to serve you on this occasion, I assure ycu was good, but as I have before himed, I have no reason to expect you to accept the will for the dead, although I "are say ycu will agree with me that "wills" are sumetimes 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 appuitenatuces, I feel satisfied ynu would think as highly of the testator's uill as you would of a free deed siven by a friend; of a hundied acres covered wiih hemlock or tamarac swamp; so you see that uills ase really not al-- ways to be despised. However, do not let ine lead you to suppose that when I said my will to serve you was a good will, that it ever enleled into my head to "will" any of you a lam ; no, no such thing 1 assure you, but my intention was in all sincerity to imprat the best information in $m y$ power, in order to instruct and enable you to improve the farms you already possess; and if I shall de able to say anyihing at all that
may give me the least claim to your pardon for not doing tetter, for not taking noore time and cate, as I ought to have done, ill prepaning this address, I shal: feel myself your very erratetul servant. Athough, gentemen, I am tar frum veing a practical farmer, yet I assure you "t is always a source of pleasure to me to study the science of agnculture. I thave been in the habit tike many of you, of reading newspapers and vanous periodical pubheations on diffierent suljerts, and I declare to you mall sincerity, that I find more real satisfaction, read with far mone \%est, such papers as treat upon agricuhural pursunts than in reading the matter contaned in any mere political paper; for mstance such papers as the Canadian Agriculturist, the Gicnessce F'urmer, ana the like, any of whoch may be had at the cost of about halt a dollar a year, and I beheve it would be to the advantage of every larmer to introduce an agricultural paper into his tamily; in these you gead of the best system of husbandiy, of the best breeds of different kmis of stuck, of the mo-1 approved implements, and labour-saving marthes for culnvatme the sonl, and reaping the cons and preparnes them tor market; in these you also find many vatuable recipes, tesides numetous usemul and valuablo hunts well calenlated to promote economy, comtont, and wealth, amongst those engaved in rama avocations; theretore 1 would stronaly rememmend every tarmer to subscribe for and read allemively, an agricultural paper; and thas need not prevent you thom taknig a well conducted newspaper for genetal intormation besides. Befure proceedmag tantier, 1 would beg to le understood that what I have now 10 say in my mperfect and hasuly got up address, is not mituded by me, metely for a moment's amusemem, or for no other purgose than mere:'y filmin up a porion of the time of this our exhbition day. No, gentlemen, my desire, and my mention is that the fow hims: lhave to ofter, sthoutd prove ueetul to you, and have the effect of produchus mactical resulis, viz. of pomother your weitare and posperily. As I satd betore 1 atn not a pactical agriculturst, and thetelore my semarks may be considered as wonthy of but litte rew, lad. Can ouly say that I am presumptuous enoush to persuade myself that ahnough not a practical harmer, yer that my own pasults do not predude me rem enther makno bisetul observations on noting down useful tacts comnected with farmme operations when such presem themselves consponously before me; and as I have frequem opportamies of becommg acquanted with the slate of the marke:s for farm produce, \&e., I an in some degree competent, $l$ conceive, to impant at least a sprinkling of uselul mformalion; besides 1 think 1 qm jusutied in belirving that jou greld some share of yourde:erence to my judgmenton these subjects, or I should not so long have been honored with your contidence by placmir me at the head of your Suclety, therefore what more I intend to say is meant for your advantage, and oflered freely and candidly. First, I would conbrace this opportunity of congratulating you lipon the beautiful and favourable harves with which jon have been blessed; oue of the thest peritaps we have any of us tver witnessed; and such a temporal blessing coming from the hands of the Giver of every good gift, demands from us all a
pure "thank-offering" to Him who bestows upon us all we possess in this world. Let us never fail to be grateful for such favours, always rememberins that lle who gives them, wan also either withhold them, take them away, or turn them intu a curse instead of a blessing, should we fail either to appreciate ot make a legitimate use of them. Which of us can properly call anything we possess our own. What andividual, or ', what number ci individuals collectivels, with all their skill, ail their genus, all their mere human power, can in tuth saty that such and such a ban full or sramary full of stain, or such a stock of fine cattle, are their oun; that they are able of themselves, to protect them trom destruction for a single monsint against the power of Him who in Hi> bountital gondness permits them to enjoy them. The crop of wheat which you have just harvested with less hury and fatigue, and with fewer hands than usual, is both abundant in quantity, and excellent in quality, and all that is required to erven your wishes in tegatd to thas poltion ut juar productions, is good prices; but I fear it is suatewhat duabtful whethet your wishes in this respect are destined to be reahered. Fisu may, I assure jou, fully mahe up your mimds that the days of putertion in the lintish market for what has been hitiento war staple agricultaral production; viz., whede, have passed away, in all probability, mever to retum; comsequently we cannot reasonably look for much higher prices for this article that we obtain at presemt, except fiom cances which would be by no means desirable, vil., cither Irom uw, or a fuilure of crop, in other pats of the globe, or sume cause which wou'd entail sulfering or want upon a portion of our felluw ereatures, soomewhere and therefore always to be deplored and never to be desited. Such a state of things would be similar to one of us attempting to sit clown to enjoy a sumptuous or dainty repast, while we knew that our next door neishbuar was perishing of starvation ; therefore when we learn as seems now to be generally understool, that the inhabitants of Europe and other parts of the world have been blosed as well as ourselves with a fair yield of breadstufls, we ought to feel thankful on their account, as well as on our own. While on the subject of the wheut crop, our hitherto staple farm production in $\mathrm{Ca}_{\mathrm{a}}$ nada, 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 louk 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 produccions, any of which would not only pay you better than wheat, but would be quite certain to remunerate you well for the labour required 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 cieese, both of which are likely to command highly re.. munerating pices; and above all in this department let me entreat you not only to endeavour, for that word hardly conveys a strong enourgh
meaning for some of you, (not so strong as some butter I've tasted in my lifetime) but be determined 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 81. per pound, and 1 hnow many tarmers who have for years past realized handsume sums from the sule of this article, even when it was but 6 d . per pound; they considered then that it pat them as well or better than wheat, and why it was that mole altention was not paid to its production by a great many other farmers, with equal facilities, seems some what strange. I would next mention the anticle 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 1 think of great oversisht on the pat of many of our larmers, that they should have allowed, during the past summer the number of their hoss to be greatly reduced by selliner them to American jubbers. Every intelligent farmer, by reading an agricultaral jounal, and looking into the state of their markets, \&e, might have easily foreseen, from the brisk demand for park since last winter, and the prospect of an increased demand for it for lumbering operations, that the article would continue to lule high for some time, and to command goud remunerating pices. But What is the fact which we have reason to deplore? Why, that many, very many, more hors 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 bud management, or rather no management at all. But iny olservations in reference to keepping or leing without certain animals, lead me to make evena more severe remank than this; for I am convineed that the most casual observer cannot fail to be struck with the gross mismanagement on the part of some who call themselves furmers. 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 homed cattle, and at a time, too, when such were of but trifling value, while the surface of pasturage, and quantity of winter fodder was altogether inadequate for thei 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 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 overrun with the great number he would keep of
these animals, and when the scason 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 revoured the best share of his potatoes, all his peas, and some other coarse grains, besides oceasionally findints out some crached or broken rails in his fences which easily yiclded to a little pressure by these gentlemen from without and by which they found ready aceess 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, anil when brought there only realized some 7 s , 64. to 11 s . 3d. a cwt. ; 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 low. 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 upme this tribe, in the first place, (and certainly with some show of reason,) to be at best but a "swinish mullitude," and the result proved that he must have concluded that the sooner such a nace of animals beemme extinct the hetter for himself, and most likely for every body eke, for the following year would be stire to find him in the opposite extreme, viz., without one single grunter to grace his fam-jard or premices! Now this sort of mismanasement was nothing short of sheer folly, to say the least of it. Jiad he, as would have been more rational, kept each year a maderate number, and bestowed proper care npon them, how vers different would have been the result.

What shall I say of such ferm-holders as those who have told ne within the last few days that they haye not so much as a single pirg to put up to fatten this fall , for their own use, althought 1 know that they poss ss all the facilities requisite for keeping a moderate number. I really believe that no epithet would he too severe for them; still, as I feel reluctaut in callin's them by hard names, I will content myself by giving them this simple piece of advice, riz., that if it slrould ever by any chance, liapien to come into their heads to consider or decide as in 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 lionorable title of farmer they have no pretensions whatever.
Why is it, I would aok, that one farmer succeeds so much better than another in his farming operations, where both commence with equal pecuniary means, and uder other similar circumstances, such as simularity of soils on their farms, distance from manket, pli- ical help, \&c.? What, but because the one has had more practical experience, procceds 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 opportunitics for acquiring agricultural skill and kriowledge, when he might easily inform himself. Every farmer should endeavour to acquite useful knowledge, for knowledge is power, and therefore it is well worth every man's while to search particularly
for such knowledre as bears upon his own profession. Now there is milamg more necessary on a farm than that each partwolar hand of work should be performed in its proper season: such, for instanes, as attendines to the destraction of nosions weeds and wild erresses in the summer fallow during the dry ceason, securme the hay before the grocm have t conmeneres, cuttumg the errain as s sum, or evon befibe it is qute rupe, getting it into the ham or well bult stacks mits clear bright state iof smin as dry, ami 11 possible, not to allow it to trmain in the held unal it is enther weather benten or luoms to shell out and waste; then when all the gram sis so secured, thad himself at libenty to cant out ins manure, and sow his fall wheat, and after that have proper shelter prepared for all his stock, to protect them f:om the inclemency of the wealhe, semin how that a rail fence is no lunger consdered a suthcient protection atsint the severe blats of a loa. : $\mathrm{Ca}-$ nadian wher. The turnips, carrols, and manglewartzels must adso be seen to th tume, and secured from the frost enther it. pats or cellars. then again when the rocd sle ghang has tainy set in, a pertion of the whiser whi be oceuphed in takiner prodace: maket, provines such quantity of firewcor that a poston will semam over in a dry state math the begamman at least of the following winter, whil a day mow and then of relaxation from toil, speat m vinteng retahves, trends and neightems, and thes the roume of all the farming operathan wo wany on, the experiene op tand hame eave th the hes of he power that the suasm tor ore kind of work shall never encroach ugm anotier, and liesides atways having an cye to bin cannars and lam mplements, to see that they dee net leth expses at ath suts of weather, but leja ina pupersoate of perempation, under cover, reaty for wse whemever wanted. After having hmten it wh the tavouable prospects that now prestas themselves 10 my mind for an incensed dematas for buticr and yorlh, 1 must also ine hate , wher produchons to whel you should torn your athenthon; tom motance horses. Good horses ase in dermand m many parts of the Province, and then brecimg should be properly attended to hy all neans; and our townshp has gained some celcebny atready tor the pioduction of these valuabie antinals. Nheep, buth for the carcass and fleece, will no donbt yield a profitable return; and may memone also anougst your grains, mat of oats, and my ideas of the course now to be parsued as likely to be most conducive 10 the farmer's interests. is to postion out the farm into grazing, grain, and root departments in a more equitable proportoon than has hitherto been the ease in this townsthip, appropriatiag much less to wheat than helelofure; what land you do allot to wheat, till it in the best mamer, and tall not to procure the best valieties of seed, thooonghly cleaned and prepared before sowing ; that is, such a vartety as has been proved by experience best adapted tu the soil on which you intend to sow it, for some kinds are suited to high lands, and other linds to low lands; some to light suils, 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 bv following a.system some what approachng to whiat I have
briefly endeavoured to point out, I feel satisfied that you will become gainess very soon to a considerable este .; for one thing, your land would not be exhaustud as it now is, iy constantly growing wheat; and by this course, and following a system of rotation of crop syou would alway have that portion of the farm which would be set apart for wheat, in good heart and condition for such a crop. If I have been somewhat severe upon some of our careless inlitterent farmers, I assure you I meant nuthins persmal, and! wish to be understud that, I by no means consider it a crime for a man to set out as an indiflerent farmer who has not been brought upa practical agriculturist, or who has not had an opportunity of acquiring that skill and knowledre, so lequisite for carrying on suceessful farmarg of erations; but I do contend that when such a one undertakes the cultivation of the soil, he is justly chargeable with culpable negligence, or crimmal indiflerence to his material interests, and that of the community at large, it he does not endeavour to learn from and imntute those aound him who are looked upon as practical an': experio nced farmers, and who won!d willingly and readily impart their knowledge to their less informed neighbunts; and the farmer is widely diflerent in this respect from men in mo-t other protessions, for while he imparts his skill and knowledge to his brother farmer, in order to improve his condition, and make him wiser and weathier, he does not in any way abridge his own means, or injure his own interests. $\therefore$ I have observed; systematic plans are really requisite to succes. Men who have not enterpize to plan, will have still less if possible to exrecute. Few mea do more than they intend to do, and there ought to be few who have not ambiton erough to ronse their entergies to accomphsh what they have once deliberately planned to do. That man who is the mere chald of circumstances, acting ouly 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 mto 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, substantal, or comfortable house. The man who is content with a shabby, dilapidated house, roofless barn, broken down fences and ten bushels of wheat, and tive hundred of hay to the acre, will seldom find himself in a better condition; while he who plans to poisess good buiddings, permanent fences, and to see his lands ornamented with fruit trees, and covered with forty bushels of wheat, and two or three tons of hay 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 sich," 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 zurns his own wheel of fortuse more emphatically than almost any other class; those great and sudden turns of iortune which somelnnes raise or depress others, lay
quite out of his track. With firm foothold he climbs the ascent to competency; or wilh loosened energies he slides down the gradual descent to poverty. The eycs of the master or owner should pervade the whole estabtishment; nis mind and his hands must be equally ready to do their appropriate work; his example should be such that no sdler 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 energes to his furm uatil 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 responsibulaty of ollice and the toils and cates 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 thuchs and herds and fruts is a truly enviable possession, and like Robinson Crusoe, the farmer is often "Munarch of an he surveys." I have deemed it proper to mention on this occasion that it is my desire and imtention to retire from the Presidency of your Society, so that you will soon be prepared aud able to select from your officere, one better qualitied to thl the post than myself. It has, 1 assure jou, always been my desire 10 promote the imerests of your society, but my occupation is such that I am frequentiy prevented from duly attending to the business and duties required of the President, and from performing it in an etficient manner; therefore I consider it an act of injustice towards you 10. remain in such a position longer; and it would be a further act of injustice, as well as ingratutude on my part, were I to omit on this occasion to testily to the forbearance and indulgence which you have always shewn 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 hindness from all the officers of the society, and for my own short-iomings 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 comtort 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 tormer as at preselt, but le much lessened. Our great aim shourd be to raise up manufactories in the Province tor uumr-
ons articles, which we are at present under the necessity of impoltung, often at great cost. By adoptines such a course, by rasurug up Towns and Villages where varous descriptions of artizans would concregate for the purpose of manufacturing those articles, we shall at the same time the oreating a home consumption for a large portion of the surplus productions of ou. fertile soil. With railroads, macadamized and gravel roads, and other important projected impiovements in prospect, I an convmed that Canada is destine! at no very remote period, to become a great and wealthy country; and if every farmer pursues a proper atad judicious course, husbanding all his resources, sufteing neither folder, manure, fuel, nor any oither 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 protession as they may, farmers are the bone and s?new of the cousitry. It is to be regrented that this day for oll Autumn Show has turned out sc wet and unfa orable, so much so, that great numbers, I am sure, have been prevented from attendiug, and from which cause the enjoyment we looked for has been cousiderably 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 presious oiles, owing to the unfavoratile 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 neans neglect to support as we should these Agicultmral Societies, which have been the means of doing so much good, and which are so well calculated, it properly eonducted. and equally protected by the Guvenment, to do still more good every succeeding year. The Legislature i- now about to make some amendments in the law relating to these societies, and it becomes our duty 10 second those praiseworthy intentions on the part of our Legistators, and to show by our exertions that we duly appreciate the valuable support given to these societtes by the Goverument. If you conceive, gemlemen, as no doukt 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; fur, 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 gond time produce a profitable return, or at least prove germs that may produce a vetter 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 cettainly 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 un at good prices; the quantry of wheat onl het gow is very lair as wo quality, both fall and -irime varieties. I do thuh that sume of the samples could not easily be beat in the lrovine: and for the domertic woollens, both as to quantity and quality, they have exceeded anything of the kind ever before bronglit moder our nonce on a sumilar occason wahin the townehip, dumy very great credit buth to the produceis of the wool, The canders, spmomers, weavers, and cluth-diesser or finither. These ate one or two remarks whieh I furgot to make. The finst has refe euce to the proportion of the government grant allowed In the township socleties, which 1 think is by no means equatable, beng too small; so much so, that these local societies are enabled to, othe but a small ancuit of premintus on otciditits tike tho present ; to tullang, penetally, to turase sufficient compethoon. Conid these twinalip, s.nieties be phaced in a positun to eluathe them to atien largea and a gleater number of pemiams, they would effect much more gool than can be expect d with th.eir prestat limited means. I am wiling to admut that mueh may be advaned in tubur of giving to the County Souieties a large share of billuence, with a view to bing the viry best and chuicest productions of the whole Comaty, periodically, imo one for us, and for mulering as large a number as posible of the most nolluentual and best morned fammers; but so far as my observaluns have led me, I am quite of opinut that in the pre:ent state of suciets, paticuarrly in the rear townships, these collaty mertinus do not athact 10 any extent that cluss wisich most need a spisit of emulation indued among-1 them, but ane confined in a great measure to the leading tames:, and men of othe protessions, ine Juding a pontivn of the pouer fanmes hiat resine "ithin a very moderate dastance of the place of rendezvous. Now 1 am led to the coniction that the township socielits, if placed upon a proper footins, are decidedly hetter calenlated to supply this desideratum, viz., of bringing those together who most require instruction, encouragement, and a spurrins on. 1 am smry to have to ufurm you, that an couseguence of wa funds for the year being neady exhansted, tl e Ditectors have with much regget been oblyed to abandon the coutemplated Ploughing Mistch. I would advise the Directors to instuct the siperetary to correspond with some of the neighbonng towne hip societies, on the subject ol hiose resomions which you adopled at your last annual meelmg, in order to cblain alt expression of opinion the coon. Before parting from you, I must be allowed 10 say , that at is my tum conviction that the members of our son icty du nut take as much interent in the Couniy extibitions 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 Goverument grant for the use of Township Socicties.-ED.
all things into consideration, the best and most economical process. Donlan's macline, which was sent by the Canada Company to our last Exlibition, is among the most recent improvements, and a mechanic of thas city is constructing a new machine after that model. Donlan's 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 beliese is equally shared by the Directors of the Company in London, who will not fail to inform ther principal commisioner 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 satisfac. tory 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 lail 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 cullivation of Flax, condensed from an interesting paper read by Dr. Anderson, Chemist to the Highland Agricultural Society, entitled 'Summary of Ducussions at the Monthly Meetings in 1851-2,' which appears in a recent number of the Society's'lransactions.
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 protess can scarcely be made to pay, except under the most favorable circumstances." Linder the old system of retting, rariations 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 mone or less satisfactory. 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 malter than most other crops. Recent practice, we believe, as well
as scientific researcles, 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 docs not exceed, it indeed it does not considerably fall short of, other erops 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 finsst quality and most valuable fibre is obtained when the flax is cultivated under such circumstances, that is production of seed is as small as possible. This is effected practically by sowing close, and by a voiding 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 proititable-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 urn out to remove less valuable matters than a crop of Oats, of which the seed is remeved, and the straw returned to the land. Such, at least, is the inference to which Science rould lead us, but it would be most desirable to have it confirmcd 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 temperature of 90 degrees, by a steam-pipe passing through 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 improvenent. but I hare 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 sleeping flax upon another plan is also about to be taken out, the preliminary exper iments on which hare, I amgiven to understand, been moit 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 il, 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 cotion into flax, I should have understood it, for that would have heen converting a cheap material into a dear one; but I cannot sec how any thing is to be made by converting a dear substiance into a cheap one. If it is meant that inferior qualities of flas are to be converted into fine cotton, we can
just conceive the possibility of its paying; but if that is all that is to be done, it can be of no benefit to tho farmer, because he may depenel upon this. that if he is to make the culti-ation of flax pay, he must aim at producing only the superior qualitics."
progress of canada.
The present condition and future prozeects of this portion of British America cannot be otherwise regarded than as highly satisfactory and encouraging. Oa all sides we see dady increaso of progress. Villages are mpidly springing up in all directions; the ohder of them fast growing into towns of no mean size, and tramacting an ever increasing business, while several of the latter will soon gruin the rank of conpmate cities. As the railroad system beeomes developed in Canada, so will its husiness increase. Already, in several localities, the expenditure of a few years persevering industry has literally made the desert to blosso in as the rose. The following letter, which we copy from the Brampton Mercury, written by John Lyneh, Esy., in old and respectable settler, well hown to many of our readers, is only a simple specimen of many of a similar chatacter, whech might be culled from the press of difieren locahties. Canatians havo now the satisfaction of howing that their own country is maling a siailar prouses in all the apphances of moden civilisation to their centerprising neighbours of the United States. The difference in favor of the latter that formerly ointained, has oflen been math ower-coluared and exagserated, by whists and whels; while at present Canada is rapilly assumines a position which must preelude the possibiiity of an unfovorable comparison :-
"In the begiming of the year 1820, the tract of land on which the village of Brampton now stands, and for many mile-aromed, was an unbroken wilderness, ummaked by anything to denote the proximity of the white man, but the slight traces which the surve ons had left m their survey of the pevious summer. In the course of 1820 , the Towship of Chinguarnuey was partially settled, and is p population, with that of the neighboming townships, has contimed steadily to increase, until now the spot which thirty two years ago formed part of the immerne hunting ground of the Indian, where the wolf and hear roamed at pleanare, has herome one of the finest Townships in Weviem Camata. I'pon the Hurontario street, in the above-mamed onwship, stands the Village of bramptom, now the residence of over 1,000 human beings, covered (the ground I mean, not the human beings) with numerous merchant shops, mamfactories, dwellings, \&e., alive with the hum of business, and
giving to even a casual observer, convincing proof of solid proiperity.
"It may nut be amiss to mention as a curious incident, that in the sammer of $15 \% 0$, a colony of Beavers, frightened by the earlier settlement of Toronto Township, extablished themselves on the bauks of the Etobsooke Creeh, on the spot where Bramptun now stame; but the sound of the ase of the sturdy Pioneer soun disturbed them, and they took their departure to pats unknown.
"The first appearance of anythor like a Village was in the year 1834, when Mr. John Elliott pold a few lots oif his farm for Metchants' and Mechanics" shops, and called the place " Brampton," after st phace in Eurland, near which he formerly tesided. One of the lots was purchased by Mr. Abyah Lewts, now of Cooksville, who built a sure upon tt, which wasi for many years the only one in the neighbortood. The store and lot were subserquently purchased by Peleg HowLand, Esy., ow present yentlemanly Postmaster, and is now the site of the lost-olice anl Mir. Howland's store. About the same time several industrious me chanies e-tablished their trades in Brampton, arid ston obtained a good and constantly mereasing business.
"In 1S10, (reorye Wright, Fisq., M.P.P., established the second store in Brampton, and it is but ju-tice to Mr. Wright to say that he has done more be his enterprise to encouraes the prosperity of the Villaqe, than any other one individual. By his enterprese mbulhug and other improveneits he sate employment to a 2 a a number of men, and thus atractend an in lunvii us population to the place. One of the fruits of his enterprize is the splentid Steam Flouring Mill, which turns out over one humdred barrels oi llume every day, and is a yeett ahtratage to the Village and the surroundug country.
"There :re at preseut in Brampton, one Steam Flourng Mill, one Fomdry, and a second 11 cuarse of enction, mat Thashima Nachme shop, the Mrowr. Hasusen', at which the machine that took the eecond prize at the last Provincial Jxhibition was made, one large Tannery, the proprictor of which being about to retire from busimes, now offers it for sate or to rent, two Clock and Watch-makers shops, several Wagron and Carriage makers, Saddle amd Harness matkers, Cabinet makers, Chair makers, Blacksmiths, and Tradesmen of almost every deseription; hut no loafers. There are six grood Inns and a Tomprance House, a Livery Stable, Boot and shoe makers, and other phaces of business too numerons to mention, but for which I refer your readers to suer ahbotisiug cosumas. There are three churcher, live Cherrymen, four Medical men, two Drueg stores, a Beok store, a. Land Ageney, an Atomey's ofilice, and last, though not least, the Braspras Mincure, just spreading his wings to carry to the inbabtatits of the civilized woifl, and sume parts of the United States -as your ehder brother of sireeterille would say -the sayings and doings of the bramptonians.
"There are places, no doub, which have advanced more rapidty than 13 rampton-though but few such places conld be puinted out-bul I know of no place which has increased in the
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 rubling; but the prosperity of Brampton-whatever it may be -is owing to the incastry and perseverance of its inhabititnts, combined with the advantage of its locality, being in the centre of a splendid agicultural comutry, settled by an industrious and wealthy population, aud 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 buildinus, and numerous buildings are in course of erection. There is not, at the present time, one house to let. The Villago 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 Govornor 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 eminent! successfil. The new regulation of allowiug 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 distinet breeds that it has been fund in patcistor exceedingly unsatisfactory, if not uttenly useless for practical and cionomical purioses to class them together. A llereford cow, belonging to Mr. J. Jume Cooke, was the winner of the go d medal, as the best heifer or cow of any breced; and Mr. Stratton's 4 years and ten months old short horn or, gained the sold medal, as the: best steer or ox of any breed. A general examination of the animais exhibited (says the Agricullural Giazelte) results in one unquestionable conclusion, viz. : the culue of symmetry alithe in oxen sheep and swine. The London 'İmes has the following remarks:
"There :re not mo e than a hali:-a-d zen ivasts shown of a decidedly second rate chanater; and the two worst of these are foregners. It is to be hoped that the introduction of contmental stuck at these annual erlabitions maty not be discourased by the overwhelming chatacter of the competiton to which they me unavoiuably exposed. They have established a phace for themselves in the marhets, and our agricultuists can take no harm, and may denve some usefial lints from seeing the best Dutch cattle once
a year placed in justaposition with their own. Amung other features of the present display may be noticed the skill with which our breceders, in each class, are rearing ther animals so as to approach certain standards of shape. Their umemitting exertion have enabied them to get rid of old defects, which wele at one time regarded with favour, aml so to manage that their stock shall carry the gieatest 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 improvaments towards the same end have been made ith other breeds and esperally the Hereturds and Shorthorns. if any one wathts an illustration of this, let hime cumpare with any of the prize cattle, an old-fashioned Shorthorned cow exhbited by the Marquis of Exeter-not a bad specincen of her hind, 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 whech, 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 trere is a fair show of West Highianders, Angus, and polled Galloways, there is not a single entry of Welsh or Irish. How comes it that our Northern agriculturists, even from as tar as shetland, are thus represented, while from the rich pastures of the Emerald lsic and from the hills of the principality nothing is sent? The classes devoted to cross-breeds contain some excellent specimens, and as theas, after all, show the staple which supplies our market with beef, they will be examinied with propotionate interest. Among them will be found ene remarkaby fine steer, exhibited by Mr. Joseph Philips of Ardingtow, Berk, and an equally handsome heifer, shown by Mr. Robeit lieman, of Moreton-in-the-Marsh, Glocestershire. If in their awards for cattle the judges have made any mistake, we should be disposed to say that it wasin gaving a prize to Prince Albert's Here ford steer, which se med to us not comparable to that ol Mr. W. Heath, of Ludlamhall, Noawich, standing next to it. Early maturty, economy in feeding, and a carcase affordng the largest quantity of meat distributed in il.e best joints, ought to be the tests of a sood show of fat cattles The juiges point out the tinest beasts, but wathuut, we feat, the essental reference to those other considerations upon which the practical value of the exhibition depends.

In the display of sheep, the present show comes ont very strongly, and hore 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 agicultu:ists have contributed. We would draw particelar attention to the pens cxhibited by Mr . G. IR. Overman, of Burnham Sutton, Norfolk, and Mr. W. S. Stevens, of Galthampton, Oxfordshire.One point which occurs for cibly 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 nost profitable to send to market, that Smithfield is necessarily su plied with a small proportion of pure bred sheef, and, that an exhibition like that in Bakerstiect, is one where strict attention to perity of bood is not requisite, and can be dispensed with. The tendency of snch predilections is to shut out practical men from the compettion, and leave it in the hands of breeders and amateur agnculturists. The club, it will be perceived on referenee to tho prize
list, gives no gold medal execpt in the pure breed classes, and their money premiums for those classes are on a larger seate also. There is an obvious risk in mahi: g such distinctions with the ir new c'assitication, for they will thus be insencibly drawn on until all difference between their exhibition and that of the Rosal Agricultural Society disappears.
The present show of pigs is quite equal to that of former ycars; and the pen to which the gold medai has been awaded will tor the next fers days ucuppy 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 exmmine the porhers sent to Baher-street by that enteaprising and spmited agiculturist, Sir Joha Cunror. They are excellent of ther kind, and have won him no less than tiree prizes.
To the existing attractions of their show we understant that the club e ntemplate adding next year a display of poultry, which camot fail to be popular. One of the smaller evils of Protection was that it brought into unmerited contempt an interesting and protitable branch of rural indus'ry, which being neg!ected, our poultry became so dear and bad, that we had, and still hate, to draw our prancipal supplies of them from France and beleium
As an otishoot of the exhibition of stock, the bazaar contains also a great collection of agnentural implements supplied by the best makers, and twa collections of farm produre, which are of a remakiable excelience and deserve the careful inspection of every visator. Il. firs of these is by Gibls \& Co., of Malfmoon Street, Seedsmen to the Royal Auricu!tural Society. It is beatifully arrangod and shows great care in the selection of the specimens. The second is a vontribution fiom that valuabe 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 the highly creditable display of farm produce, which we maderstand is the resudue of the sociely's lust antumal show, and is composed of contributions from the best agriculturists in Ireland.

## DISPLAY OF IRISII FARAI PRODUCE AT THE

 LATE SHMLHFIELI CATYLE SHOW.The department of Seeds and Roots of English growh was very extensive and of a high character. A novelty in comnection therewith is worthy of special notice, viz., a splendid display of $\operatorname{lr}$ ish productions, forwarded by the $R$; wh Asic itural 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 matio. That most useful and talented journal, the Irish Farmer's (iuzelle, 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 prouf 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, furtile as it is, without a correcponding evertion in systomatic and first-rate tilage, and the application of suitable manures. Improved drill husbandry is no new thing in Ireland."

The specimens of Swedish turnips and man-gel-wureel evhibited are described as of enormous growth; some of the returns showing an averige weig!t of 50 and 60 tons per statute acre! Must of these apleadid crops were proluced on land which was pronnumced a few years since as echausted and worn-out, and recently purchased in the Eucumbered Estates Court; thus affordiug an indisputable proof of what the naturally rich soil of Ireland can do under proper management.

In comection with this truly pleasing and hopeful state of thin ris, several instances of farm manasenent are related which clearly show that in several districts of Ireland both tillage and draining are rapidly improving. We regret that our spare will not adinit of details, which could not fail of being interesting, and in sume degree useful, to many of our readers. Surely old Irelands, "good time" may now be safely said to have commenced. Success wher exertions.

## IMPLENENTS AND MACIINFS AT TIE ※MTHFIELD CATHLE SHOW.

The Mark Latne E.apress, one of the ablest and best couducted Agricultural papers in Great Britai., obereves that the number as well as usefulness of the variety of enginpe, machines, and agrienhtural inplements generally, exceeded all periuns occasions. The number of Reaping Machines gave an air of novelty to an English Show. Our contemporary remarks:-
"Perhaps, $h$ "wever, the most striking advanee upon f,rmer shows was in the reaping machines. Thi re was a great variety of $m$ des of catting, wath claming m"it. and uo douht possessing great advantages tor eretain purposes ; but which of them is the best frenting the erais clops of Eugland tume has yet wirue. First Bell's, on the perf et sci-sor or clipping pinciple; Crqwley's \& MeCormick's, the drawcut with a sikle dedse': Dray and Co.'s, the Ins:syan or chopping plan; Garret's. a combina'ion of the clipp ag and choppung prisciples; Cioshitps, a combinathon of the drawcut and clipping principles, with a hine sernated edge. All these phans have been more or less us, d, and fimind to answer in different der ees. The etipping has hat the longest pructice, and has retaineet the hyghest mer.t wherever it has cone in enmpetition with the other, as the iarmers require a reaphy machine-and no machine can be fully entited to the name, except it cuts and lays
down the crop in a contiunos swat down the crip in a continuous swathe, or in parcels large enough tir sheaves Thus the suceess of such an haplempit will not be depradent upon the activity and muscular sticugth of labourers, who are a class
f men that do not like to be put much out of their old pree of moving; this, coupled with the past wet harvest and heavy crops, proced almust fatal to the American reapers; while Bell's, under he same disadvantageous cir umstances, was appl uded whereever it wat. We are convmed that its great success lay much in its cutting, gathering, and laying down the cut crop in a beautifilly arranged swathe without the aid of man, except as far as diving the horses is concerned; aud here the driver usin's a pait of reins, and steering or guiding it like a ploush, soon feels himself at hone, because the mode of action is thoroughly understood by him. We are couvinced that if the harvest had been as dry as usia', the American machiues would have gained a fair share of contidence am ing the tarmers, and with some improvements, we are of opini in they ull become a popular and useful branch of machinery.

Mr. Jamps exhbited 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 firmers will use the test of weighing the fooll for their siock, and the stock occastonally while growing or fattening; thus the farmer will be abie to detect the erro:s he committed in selecting or breeding his stock. ard the teeding value of each descri; tion of farm produce. In fact, we were the mone impressed with thas diea as we mused orer the immense size and weight of the fruit, roots and plants, we saw on the stands of the eminent seedsumen; and especially on the produce of the Emerald Ile sent over from the Dublin Show, which spohe londel than wo:ds that both the soil and climate of ineland are all that can be desined.

## With reference to the Steam Engines for Agri-

 cultural purposes, the Morning (hronicle 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 poitable steam engines at work, by the most eminent makers, including Messis. Gar ett \& Son, Messrs. Tuxford \& Sous, Mr Horusby, and Mr. Burrell. The engine of Messrs. Garrett \& Son was shown in comm clion with their ve y complete threshing machme, 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 tie 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 apprecinted. At the late Great Exhibition this engine uas snlected by the engineers of the French and Prussian Governments as the b-st shown, and two of them were purch.ised for depnsit-one in the Couservatore des Arts et Metiers, and the other in the Museum of the Roval Socicty at Magdeburg. The working parts of the engine are eftectually protected when at work from the destructive grit and dust esperially given ont in mo tagricuitural operations. They are secured from the weather at all times; and from any interference with therr working parts by being under lock and key. They may be managed by any ordinary farm labomer, with a few days instruction. They have upright cylimers, this, it is contended, being the best position to ensure the eylinders not wearing oval. as is the case with the horizontai cylinder. The "governors" of the engire act in a very simple and effective mamer direct upon the hrottle valve. and fr. in th ir arratigement cannot well be put out of onder. The boiler is made of Lowmoor iron, and los water--pace flues leadins from
the fire-box and returning through lap-welded iron tubes, thus avoiding immediate enntact of the tubes with the lire. The total weight of a six horse engine, mounted on four whe ls, is but 54 cwt . ; the consumption of coal does not exceed the extrandilinary low amount oi 5 cevt. per day of ten hours. Evers precaution is adopted, by meaus of "spark traps," to avoid accidents from flying sparks. FL w questions are of greater interest the the agriculturist than the application, in as simple and ceour mical a manner as pussible, of steam powe: to the wa icd operations of the farm; and it is pleasing to find the energies of the most eminent agricultual machinists devoted so strenuously to the subject.

## tife birmingian cattle and poulatry SHOW.

The fourth annual evhibition 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 posse :sion of what is doing in this important depatment of husbandry, in the old country, we subjoin, without cuitailment, an ably, and we doubt not, impartially written article from the Marli Lane Express of December 20th:-
With an oxtraordinary want of discretion in the management, the Birmingham Cattle Show has hitherto been made to clash wih that of the smuthifield Club. The natural const quence 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 aue few towns, be i: remembered, with better recommendations for a display of the lind than birmingham. Famously situated, almost in the heat of many of those counties renowned for their siveral breeds of cattle and sheep, as well as fed by sail from nearly every quarter more distant, the success of such a show could scarcely be questioned. Further than this, the hail devoted to the exhbuion is now, prrhaps, the best in Euglanc; it is certainly the best we ever visited. Spactous, loffy, and admirably arranged, wih the most perfect ventulation and general completeness of detail, it becomes a pieasure indeed. rather than the hard labour of too many of these gatherings, to inspect the different varieties of flesh and toul biought toyether in competuion. The enthusiast will get a fair turn at avery number in the catalugue willout that sence of fatigue and oppressive heat which so often has damped lus ardour and lof his duties tufinished. The mere louncer, 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 une end of the hall a most convenient resting-place, opening and fashioned like a stand on a race-course, and affoiding a capital view of the whole yard. If be 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!- -ather a strange prohibition, cousidering time and place, and, as we take it, allogether a mistake.

The town of Birmingham, then, has in itself, to begin with, almost every essential for a show of the lind just hhere. Nothing more was wantung than judicious management to direct and carry out the
business of the meeting. We are happy to add, that, generally spealing, his las been quite wothy of the arasion. Indeed, in one or two puints, the Committee have taken a line of their own, that the caprience of season after season gives jet nore to their credit. The classificutu n of the severai bree.!'s of animale, for ins:ance, just ado, ted by the smit field Club; an', above all, the mitruduction of prizes tor poultiy; a step worthy of all connendution, and full wed auain ly both the smithified Club and the Rojal Agriculiural Society of Englund.
The grand mistake, we repeat, and it might have been a latal one, was putting the autractions of Birmilugham in direct rivalry with those of Smithfi la. This should never have been, and, as we trust, w!! never occur again. The tenult of the last week, must satisty everyboly as to the error of such a couse. The birmingham Management saw many a new and good name in their catalogue, and many a fresh face in their Hall, which they nevel would have seen under formur circumstances. Moreover, for the quality of the Extibition, as well as for the wenctal sucees of the meeting, that now over. we are assured, fat axeels any of its predecessors The old supporters of the Society, however, have litt.e to complain of irom this introduction ot new blond; they have fainly lield their own, and in sume instancers, as himy heraten opponents that came against them in all the flush of recent triumph.

This is the case with the short horns, as a class decidedly supprior to any in the yad. Mr. Stratton's beast, which last we k took the gold medal at Smithfiedd, and was pronounced there a v ry perlect anmal, succumbs here to one of Mr. Drakefu:d s of Coleshill. They are both vely fine sliecimens of the breed, and many a good judge has been puzaled to decude between them. At first one might tio inclined to favour Mr. Stratton's, and to grestion whecher Smithfield has in realit been beaten. Ihs is the larger as well as the older beast and it is difficult indeed to find fauth with him. The other, if bor ghite sn showy, will well bear the test of close examination. The more you look at him, the more yon like him; wonderfuly level and even as he is from end to end, it shall not be for us to dispute the correctiess of the awad.
In the short hown cows M. Towncley takes the first pize and gold meedal of the show. This gevitiman has now become famous for bis cows, as witues his suceress at Lewes this year. The onc he nuw exhibits wil' only add to this repute as a julrc; sha was deservedy the picked animal of the whuic y.ud. Some further entries from Mr. Stration, M. Wiley, Bh nam, and other noted shurt hurn Lreeden, chaisbute to makr up a disphay of short ciula catto thats has seldom been surpassed.
It is not our purpose, nor would time admit of our going through the whole of the clatses. We may notr, however, that the Hevefords, if not yerhaps in any way disputing the place with ilie stiort horns, wrep generally gond; 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 nent specimens of the pure bre d; Lord Leicestei, who took the first and serond prizes in oxen, woung the form.ry with one of Mr. George Turners own sort. The senemal charactor of the show, nevertheless, does not so much depend on the actual purity of the stork as a distinct breed, as it dnes on their uility and fitness fur those districts from which the class's are chiefly filled. Thes is especially remarkable in the shecp, of which the Southdowns have very decidedly the call; but even theso
have larely the thorough-bred look we are accustomed to in Baker Street, and at the exhibitoons of the Royal Agricultural Society. 'T he crosses foom them "the Shropshire" and others - may tather be taren as the great feature in the sheep; the Lelesters. with one or two exceptions, making but a poor stand. We certainly expected to have seen a better show of them.
Of pigs, fat and breeding, the entries were mumerous, andalmost all excellent. In both these divisions Sir Jotin Cunroy exhioted to great advantage, with his Aborticld improved pig. The best test for the fat pigs was the eagerness with which they were bought up, at wonderful advance on the pric- of has. yeur. In fact the sates generaily were good; and wh n we left there was litile prime stock in want of buyers. In the small piss for breeding we especially cominend two lots, cent by Mr. Leigh Clare, of Bristol, on of which obtainel the first prize and medal. They weie a very fine sample of the improved Essex. I' ough hrre again, in the pigs of Birmingham. purity is not generally bowed down 10 -at least as ther staudand oi proffithle excellence. But, atter a!l :..e great streugth of the Birmingham show is centred in the poultry. For one man in a railway carriag or a coffee-room that introduced himself with an observation touching the puints of a short-horn, or the fla our of a south-down, twenty were learned in Cochm Chinas. Country clergymen, ruse in urbe citiz"ns, elderly gentlemen gining on ther own account, and s'rpiliigs armed with unlimited orders, were all intent on Cochin: Chinas. It was not the catule show-the graud attraction was the "Cochm Shou.' With the Birmingham Society rest the credit of havine first called a'tentim to a branch of lreeding so lone and so stanyely negleried. By its influerse the different varie ies of domestic bidh have been rapully imprised: and, appropiately eno:gh a this last exhibition there was such a displav of poultry as never betore was gathered together. Durhing, Game, Matay, Mambury, pigevis, turkeys, geese and duck's of almost every known kind, were there, to be rewarded according to their sevenal merits. And extraodnary menit there was, too, in every c'ass; but still it was of bat secondary consideration. The mania-and it is now nothing short of a mama-tums on the Cochin-China. We hear commonly encugh of fifiy or sisty guineas being asked and given tor a lot of four bids; and we inquire msome ig iorance may be, can this be warranted? What supero ofy has the Cochnn over the Dorking or Game fowl? Ifis applearance, for one pont. is decid dly against him; no vue we should, fancy. wouid ever atempt to rate the Cochin as it hanaume brd. The two bicedo ue have just named as "ell at mathy othere, are in this restect infinite.g bef..e him. Is it inthavour? Ifre, again, we question very much whether he can compare with the Dorking or Gem. ; in fact, the result of our own exper enee-limited. we admit-is that for the table he is beter crosed :ham when sersed upin all his native puity of size. I; it this stre, after all; that is his chuef rece mamendation? We tust nut: It with it can be coupled carly maturity, and the hen burds be depen!ed on as govd layers, the policy of encouraging th . b. wd may be admitud. These sery points, hower $r$. mast of themselves tend rapidly to diminish the "xturagant "fancy" prices now given: and the s."oner th: be:ter. We may then begin to consider thim as th. common fum-jad foul; ascertan how ceonomically they may be reaced. and how, in reality, they ancappreciaied. At peesent the breedug of the Cochin-Clinat is not, as we would see it, the business of the firmer's wife and daughters, but rather the hazarilous speculation of the dealer, or the costly luxyry of the amateur. Wo write-as we hope ve need
scarcely say-in the best spirit and with the best intention. If we have not dene full justice to this hi hlily pized fuwl we shall be unly glad to be better informed. Many, as well as ourselves may uot be above the advice. As it is, we give the greatest credit to Birmiughan tor having first intruduced su h a feature uto agricultural exhbitions. It must-it hasinot only wonderfully improved and corculated our best breeds, but it has «iven the ladies a direct interest in these s.oows they nerer had before. It is on these two points we join issue-Is the Cochin-'China fowl such an inupuvement on other sorts as to rank him, perhaps ior a very long day. far beyond "the pocket-money " of our wives and daughters?

ONFORD 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 manmer, by statistical returns, the rapid and healthy progress which is making in that productive section of Western Camada. We are tempted to make room for the following atticle in a recent number of the British American, published at Woodstock, that our readers-particulurty those in the Old Country-may see that this Pioviuce 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 megic creation of what are now densely populated cities and mercantile marts.
The growth of American tou ns is probably beycnd precedent in the amals of civilization and population; hut when we take all things into consideration, the naturo of the people, their speculative propensties and love o! change, acting on the raw material of a new cumutry, we can reasonably account for this wondrous result of human energy. Nor is the United States the only place where the same spiritis manfest. Canada, though denied many facilities which our neighbors posse-s, has not been behind in improvement-even in localities where essent al adrantages and the ordinary streams of business and travel seem to be wanting. In 1827 London was a wildeness, now it is a splendid town-a neuclus to the indu try of a rich, flourishing country. Guelph in 1806 was carved out of a dense forest, now it is a town of no mean character. Hamiton 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 conditioh. 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 Institations are creditable rivals to their more time-honored Col-
leges; while the pure word of Gospel peace is preached in strains as cloquent in the back woods of Canada, and in edifice's as elegant in construction and as chaste in style as can be f und in any part of the Cuntinent of America. The Arts and Sciences prosper as education extends; and those comforts and luxurie-, which the self-"xiled immigrant left behind on his napive shole, have been brought to the door of all, and that too, at rates so low, that regiet for Home and its enjoyments is in a great measure forgotten. Free from the evils which over population engenders-and at those burdens which our fatherlaud labers under, we. through the blessing of Providence and the free Institutions we possess under the brnign rule of our gracious Soveign, enjey 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 unt in rain-the artisan plies not his arduous task without a bright future to cheer lim. All, all, have hope befure them, and with that hope and a few years of well directed exettion, cumes ample ind apendence this is truly a pleasing pruspect, and one we need not fear to see cast in the shade by_ the giant advances of our Amer can neighbors. Looking over the records of our Canadian cities and towns, we find few apparently in a more prosperous condtion than the Town of Woudstock; without that wealh in its neighbouring forests which has given existence to many a town; whith litle to aid the energy of its inhabitants, Woodstock now, in the commencement of 1853 , presents no insignificant appearance to the traveller. The furest is fast fielding before the woodman's axe, and good roals are now being extended in almost every direction. Our stores are stueked with the producis of Leeds, Manchester and Yaisley. Steam has enabled our mechanics to compete with other manutacturers, and few indeed of the articles which necessity or cotvenience ciemands, but are made amongst us Messrs. Bain and Hay, during the past year. have adapted stam power to their wooks as Cabinet Makers, and exinibit in their ware roons mainy beauiful specimens of the art-Messrs. Brown \& Co.'s Fuundry, consumed by fire and rebuilt within the past year, is an extensive and handsome brick stincture, where is now cast about 15 tons of iron at a time-a pretty good index of the popularity and capablities of that establishment. Thenew W oodstock Hoiel is another buildiug that has sprung into exstence on the cite of the former one, which was also destroyed by fire early in 1853. Uuder Mr. Mat, on's charge, as its accommodating and attentive host-with its spacious roums aud -plendid furniture-its comfortabie construction, and above all, its reputation in the culmary department, it now firms 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 bult, 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 erec'ion.
Our Mechanics' Institute is another feature well worthy of notice. Through the generosity of our Legislature, and the spirit of our people, this boty possesses an excel'ent selection of most useful bnoks, many of which have bern recently added, and with a small expenditure of money in rebinding a few old volumes, and putting into book shape several Magazines, Reviews, \&ce., the Library of the Woodstock Institute will be, in the quality of its reading material, and the extemal ap, earance of its books, second to none west of Toronto. This reminds us of another most useful establishment, which has been
considerably incrensed during the last year, and reflects great credit on its spiitited poppicior. we mean W. Warwick's bor $k$ slore and binding entablishment. A well selected stock of Books, with a eood supply of school bouks and stationery, was a want long felt in thi place; that want is now in a great measure supplied, and Mr. Warwick is well entiled to the prtronage of the people of Woodstock for his industry and entelprize. His supply embinees most that ni cess'ty and fancy requires. while he prodently excludes from his sletves, all works of a donbtful characier. To his book stole, has been rec nity athached, a book binding apparatus, where is carried on all the vaious branches of the business; gildint and fancy work is also admirably executed. Tho ruling machine, which has just been added, is in itself a curiosity well worthy an inspectio $\%$. It is ta-teful in its construrtion, excecding'y accurate ald yet withall surprisingly simple. We had the plessure of witnessing it a few days ago, while an exce dingly nice job was being executed. It was some Royal paper with upwards one hundred feimt lines a cross the page which were recrossed with red lines or columns.Music paper is also ruled by this macline, and esery other vairiy of blank-booli work. In the hands of the binder was a Register for the Wuotstock Hotel, the headinys of which were printed at this office, and the book bound in the best of English catt, with Russia boarts 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 improvenent in the town and neighborhood of Woonstock can be recorded to which we hope to find time to severt in some future number.

## TESTIMONIAL TO DR. McCAUL.

## Alhough the chronicling of musical proceed-

 ings does not come within the province of the Agriculturist, we are temptel 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 realously laboured in promoting tie 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 inlebted to Dr. Mi Caul for the chaste and beautiful Diploma whech the Society has awarded at its Ammal Exhibitions since its commencement: the learned Ductor not only furnished the design, but generously, and we may add patriotically, lefrayed the expense of the lithography.
## toronto hocal music society.

The Amual Concert of the Toronto Focal Music Suciety, came off on Monlay evening in the St. Lawrence Hall, before a large and highly respectable, and greatly deloghted 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. NleCaul 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 designs of Chinese musical instruments, in buld
relief. On the jug, basin and tea pot, Dr. McCaul's crest was engraved, while the coffee pot bore the inseription-

## IRESGENTED TO TIE <br> REV. JOIIN M'C.ITL, J.. I.. D., BY THE: MESBERS OF THE:

TORONTO VOCAI. MUSIC SOCIETY,
AS A TOLEN OF TIIEIR APPRECIATION OF IIIS CNWEARIED ENERTIONS
TO PROMOTE THE BEST INTERESTS OF THEIR ASSOCIATION.
The Dr. ascended the platform amilht great applame, and delivered one of those brilliant impromptus for which he is famed, and concluded with there words: " (ientlemen, I feel that I have far transeressed the limits which the occasion would prescribe, and which I had proposed to myedf when 1 commenced speahing. Permit me then, in conchuion, arain to express to you my eratefal acknowledement- for the uniform kind nese which you have evinced towaris me, and to a-wure you, that intrinsically valuable as is the ederant and highty finshed serviee which you have presented, in my estimation it has a:a untold value-infimitely beyond what costly material or exquisite workmanship can gire-as the token of your esteem-the testimany of your regard.
'Oh! the value of that which is given unsought
Is not in the we or the art,
For it tells of kind fe fings that gold never bought,
And breathes the pure warmtho of the leart.
And in mem'ry's sad musings 'twill call up sweet dieams
Of thene that are alsmat or dead,
And briuhten lif.'s darkness with sunshine-like gleams
Of joy that was ouce 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 Wh. Fiutton, Esq., late of Belleville, by the Johnstown Agricultural sinciety. 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 dwes. and is about $2 t$ inches in diameter. On oue side there is engraved " Provincial Exhibition of Upper Canada held at Brockville in September, 18:n, rumning around the border. In the centre, "Presented to Wm. Hutton, of Belleville, C. W., for the best essay on $A$ griculture as a Pursuit, by the Johmstown District Agricultural Society. On the reverse a sheat of wheat, "Canada" with a group of cattle, pirs, 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 see n, and retlects the highest credit on the artint, while the design is the happiest thing of the kind that could be conceived.
Every farmer should be proud to know that the irmportance of his calling is looked uion in such a light as the presentation of a medal like that we have noticed above indicates. With a spirit of emul tion among neighbourins 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 agriculumists, they as a class ought to reiniee to know that they are begimning to occupy their true position in the country.

## WEIGHT OF A DURHAM STEER.

Woodmle, Waterdown, Tan. 8, 1853.
Derir sin,-As the Journal of late las contained some discussion upon the relative value of Short IIorns, IIerefords, and Devons, I beg to transmit a short statement of a thorough-bred Durham Steer, bred and lately skughtered here.

My own firm, deliberate opinion, gres a decided preference to thorough-bred improved Durhams, of the right stamp, and this for cull purposes; but I should indeed be greatly ashamed, were 1 to make any depreciating remarks upon other breeds, which may justly find favor with other breeders.

J have no doubt that in the long run, the best paying breed will ultinately 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. IIe was slaughtered about the middle of December last, taken direct from a December pasture. His net weight was as under :-

| Tour Quarters, | - | - | 900 lbs. |
| :--- | :--- | :--- | :--- |
| Tallow, | - | - | 80 |
| Hide, | - | - | 100 |
| H |  |  |  |

I am aware that this has no pretensions to being called anything remarkable, but taking into account his age, theree, 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 rute, tender, juicy, and finely marblcd.

## Yours truly, <br> 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 correction. The heifer " Iril-dam 6th," No. 23 in the list, is reported as being purchased by a Mr. Perkins, while the real purchaserwas, we are truly glad to learn, our respected and enterprising countryman, Hon. Adeem Forgusson, of Woodlizll, Canuda West. It is a fortunate circumstance that so fine and promisiug an animal has been purchased for this country, and we look forward with confidence to the time when 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 severa! of Mr. Vail's herd were purchased by MIr. Parsons, of Guelph ; so that we have a good chance of being pretty well supplied with some of the best short horn blosed ever imported from England.

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

## Editor of the Agriculturist :

$$
\text { Woodhill, December } 16,1852
$$

Dear Sir,-I have just received the December No. of the Agriculturist, which is really a most creditable and respectable publication, in its renewed garb, and I trust will be well supported.

I am very sorry that you should have inserted a spurious statement of Mr. Vail's sale. IIe writes me that the only two papers which are warranted correct, are those of Mr. Tucker, Albany, and $\mathrm{Mr}_{\mathrm{r}}$. Allen, New York. His fine Heifer, which I purchased there (No. 23), is given to a Mr. Perkins, of whom I know nothing. It is a great injury to me, as I may be justly, or at least feasably, charged with duplicity, in asserting that I had made such a purchase. MIr. Vail is taking steps to have it explained, as it really is of considerable importance it should be put right. Wil-dam is a symmetrical Heifer, and I hope is in calf to young Kirlleavington, which should produce something extra. The Bull Victor, which I bought in summer, is improving in size and beauty. He
is reconded in the English Hord Book (No. 12,268 ), and T believe is the first and only animal so recorded in his oun individuality, certainly in Canadu, and I believe I may say in the United States.

1 write in haste.

## Yours truly,

 ADAM FERGUSON.
## PRINCIPLES OF BREEDING.

To the Editor of the Agriculturist.
Sir,-This communication is intended to comnteract erroncous ideas which very generally prevail with respect to the inproven nt and crossing of our donestic animals.

As I camot express myself better than Professor Low has done in " Dlements of Practical Agriculture," I will quote that work with a few additional remarks.
"When a cross is made, it should be with a male of a superior breed; and in this case, the 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 grood 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 hreed, we had not substituted a better in its stead. The 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 beecdius purposes, and as his produce is quite inferior, this tends to cocate a prejudice ayainst improving and improved breeds. It is the blood that makes the im-provement-and a very middling looking animal, well bred, will get better stock than a much larger and finer looking one but one quarter or one half bred.
" In crossing, the essential characters of form are imprinted on the offspring by the male; and it is surprising in how great a degree this imprinting of better characters takes place when a male of super, : breeding is cmployed. A first cross between a short horned bull for example, fully bred, and a wery ordinary cow, produces, not often, but generally, a fine animal, with an extraordinary appitude to fatten. But the bencfit may end with the progeny, if we do not again cover with a male of superior breed, and so on until the good characters become permanent."

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 arosing the Leicester and South Down sheep, because say they, they so soon become worth-less-and the lieport of the County of Wellington published in the Agriculturist of June tends to increase this.

Now this cross is known to make a miont raluable sheep for general purposes, but if not attended to, they will undoubtedly run out sonner than either of the orisinal breeds kept pure--and this is the case with all croseses.

The proper methol when a farmer wishes to keep this hind of sheep is to bieed alternately from rams of the original breeds.

> I remain, sir,
Yours, \&c.,

January, 1853.

## bone manure.

(Read brfore a recent meetiner of the Frontenac Agricultural Sociely, at Kinsston.)
Genthemen, -
I an sorry to say that alhought I have used my best endeavor to collect information on the subject of Bone dust, I have not been so succerstul as I could have wished, owing in the first place to its being as yet little used by the agriculturists in this comntry 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 husbandiy. I shall, thenefore, only quote such; paragraphs from him as relate to the preparing of bone-dust for manure, it being my opinion, thourh I speak it with diffidence, that this comntry generally, and our portion of it particularly; is not suited to the cultivation of tutsips on a large scale. 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 farmors who have tried that kind of culture, and have fuand the crop a profitable one for any consecutive number of yeans, sullicient to prove it, was on foom the effect of proper cultuvation, and not of mere local adratages, or the tesult of a chance favorable season, to come forward and give such practical information through our agriceltural papers, as may lead to the general culture of tinat 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 parpose I shall quote a passage from an excellent article in the Canadian Agriculturist, the whole of which, being written by-Professors Crolt and Buckland, I need hardly add, merits your most attentive perusal.
"Bone manure is peculiarly adapted to exhansted arable land, and upon poor unproductive pastures, its application has been attended with the must striking resuits. The soil in such cases having been exhansted 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 wiltout any adeguate retura in the form of manfure; a libetal dressing of bone dust speedily restures the equilibium, 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 Farmes 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 effert of it is so lasting as to be very perceptible eight and nine years after it has been applied. Stevenz 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 preparmg 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 atier; this results from the slow decomposition of its inorganic matter in the soil.
"It has been ascertained by analysis that 1 ton of bone-dust eyurls 30 tons of dang; but as unly 16 bushels of bune-dust are applied to the acre, which, at 47 lbs . per bushel, weigh 7 cwt ., this quantity is equal to $10 \frac{1}{2}$ 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, ot vegetable mould. Uncrushed bones will answer as well, but take longer preparing.
" $O_{i}$, (and $t$ is is the paragraph to which I particularly directed your notice) mix four cart 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 teduced, but broken bones will of course reduce more quickly."

## LONGUEUIL.

## DEVON CATTLE

## Edilor of the Лgriculturist:

Dear Sir.-As so much is being said in the Agriculturist, by the admirers of Short Hom 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 hinty cows, and at one time a large proportion of them were Short Horns,-thes all heed alike-Short Homs 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 diseaded the Short Horns for the following reasons:-

1st. Because we could keep three Devons on the simme quautity 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. Pecause we found the Devons much less subject to barremess.

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

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

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

But crusses from the Devon bull and the native cattle answer bette in my opimon, though infetior to pure Deyons, they are seldom coarse,
never long legged, and are generally goou handlers.

The Devons are equally as hardy in my opinion as the natives. Your respectable currespondent Mr. R. F. Cook, seems to class them with those breeds that require nursing, and high piced food in winter ; but I must ber 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 nimals. My only additonal obervation is, that I do not at present own any Devon catte; and therefore am not pleading to fill my own puckets.

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

## LETTER FROM MR. SOTHAMI.

## To the Editor of the Cinadian Ayricullurist.

Dear $S_{\text {ir }}$,-I have no desire to di-pute yous valuable correspondent Mr. Cameron, an I think he must be mistaken in the place of Showing. I never heard of a bull or breeding cow taking piizes at Smithfield. If so, I shall be very much obliged to Mr. C. to tefer 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 llerefords 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, a 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," buth in the same condition, high, low, or moderale. I siould have much pleasuse in secing either of my cows Silla, Rose, Pretty Maid, Sally, Jemy Liad, Bombazine, or Cynthia, shown agrainst Butter Cup, and let merit prove which was champion. Nr. Parsons may again say the "distance" is too far between them, but if Short Horn men feel inclined they can meet. I hope Mr. Camenon will advance some way of brmgros them mato fair competition, he has only to suggest, and I think he will be met. As Mr. C. has commenced on the ments of this beed I hope he will continue it. 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. II. SOTIAM.
Piffardinia, N. Y. Dec. 1852.

## CANE AND GRAPF SUGAR.

## Editor Cunalian Inrirullurist:

Dear $S_{\text {in }}$ - I nutice in your January number a short paper descriplive of a process for preparing surar trom Indian Corn and Oil of Vitirol. The pucesin is by no. means new, having been invented ly libehhoff at the end of last century; but from the deseription above referred to, must persons unac quainted 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 com stalk. Such is not the case, it is grape sugar which is formed:- that peculiar modific:tion which exists in the grape, raisins, figs, hon ey, and in almost all finits, and which does not possess more than a small fraction of the swe.thess of ordinasy cane sugar. It cannot, the efore be appied to all the same purposes as this latter hind, alhomen in some few insances it miolit perhaps be neefully employed. If a perom desinous of having his cup of tea rather swe 1 , were the empluy the stach sugar, he would have to fill his cuif with at fist, and tiven add the tea.
1 may also take this opportunity of pointing out a rather serious error imo which your correspontent, Mr. Moyle, has fallem. He seems to have nu very dieturet ineas respec ting the cifferenc between phusphorus and phosphorie acid ; in the lime stome alluded to, the plowiphoric acid is combin:ed with lime, and is not in the slightest degre? altered by any heat to which it may be subjected. The experiment with decaying phosphorsisent wood has no bearing on the question whatever.

I remain,
Yours, very truly,

HENRY CROFT.
University,
Toronto, Jan. 16, 1853.

## HORTICULTURE.

## PRCDAGATING BY GRAFTING.

When paticular sorts of shrubs and trees camot be procured from seed, or when the seedlings would be a number of years in blowing or fruitiun, slips of these solts, or even buds, are cut off, and instead of pianling them in the ground, they are fited to a cut made in another suitable tree w shath, called the stock, by an operation vaniowly friomed, termed grafting, which can ouly be propely tanght by a master and not by a book.

The pincipal upon which the union takes place is, that the pulp fiom the cutting descends to ats junction "tha the stouk, where, being excluded hom the air and light by a ball of piepared clay, it forms woody fibres instead of roots as it might have done in the ground; while at the s.me time, the sap, from the stuck rises into the cating, whose leaves convert it intu pulp.

When the texture of the woul is sufter mo the cutting than in the stock, the latter interrupts the descent of the pulp, and forms a bulginis scar; when the cutting his a hader texture than the slock, the contrary takes plate.

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

a. the I'ana lutea, a shrub. wheh beverattans the size of a trec. Cletit-gratited on the horve-t le -hat, bat tree of great si\%e. It is remarkable that the l'avat 1, mathe enlarged near the justion $c$. like a tree near the gomat. a corcurasianee which woald not have occurred but for the grati. The harh of each remanhs dheturet. d. the white-htue tre e gratied on the litro-



 the two medriduals ever pass the lime of ghe tion. $c, c$, any more than the spin gratied on the somb, of the coek ever changes its hard horny matule tor the solt the hy matate of the comb.

When one branch of a growing tree or shrwb is gratted to the brateh of another arowing plant near it, the process is termed inurching, but this system is seldom practised, exceat with rare and choice plants. When a bud fiom one tree is inserted into the batk of another tuee, it is termed budding, and this is exceerinoly advantageous to rose thees, for a fine standand rose may thus be obtained by simply insenting bods of good sorts on a stock of the wild rose and the sweetbrier. It is also very useful in filling up the breaches it peach trees trained to the wall, which are sometimes occasioned by the deeay ing of a large brauch.

## PLANTING.

It has been previously stoxgested that this operation should be pertumed in clandy or showery weather. It mus! never be forgotten, in plating, that a plant is a lising thing. For thas reason it should not be hejet vut of the ground, or its routs alluwed to diy, 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 violemly. Octubar and Nurinibet are the best months for planting trees and shrubs, because they are then compaatively at rest, and the weather is usually dull and quiet. Where littlo check is required to be givell, balls of earth to the roots must be obtained, if possible, and these
not crushed or pressed argainst too rudely in plaming.

Sorne lecommond the process of pudaling, which onsi-1s in mixing up soil and water into a kind of thin paste, and dippins the rots of the plants in this; or, in the cases of later thines, planting them whotly in a hole thus prepared. As ondinatily pursued, however, the plants might as well be placed in motiar and cement; lor, as som as the mad dries, it becomes a hatd cakr, which neither water nor air can thoroughly penetrate, and which will party or altugether prevent the rools fion evendug. If alopted at all, oshonid onty be in some mantfied matuer for such thing as cabluges and braccoli.

## prining.

Paning is for the purpose of preventing extra loxuriance, of throwing prons into a lloweribis of timitheanimg state, or of preservines some kinds liom dexemerury. Vely stoner and vely weakly shoots atike requice moit punian: for the one elass will be the vigonos, and the other too feebie, to be podinctive. But the sickly shooks of plants should be promed back much clues than the lovariant ones; for the object is to proluce entirely new ones in the former case, while only shorter brathes ate desined in the later, and punine wonld merely tend to develope such as wece simbarly stome.

It is latetal branches and spurs thot mostly bear flowers and fruit in some plants, and pruning is intended to matiply these. Hymin plams and thoue of which the sorts have bee 11 gereaty impouved by cuhtre, are sath as chielly iequie praning. Stopping the pouns, tender stoons of many kinds may sometimes ies preferable, as it hinders the plants furn wasting their strength unduly. Even removing the buids that are not required to develope just after they have burst, may often be adratajeonsly patitised. Indeen, summer proning is of mure comseguence than is genemally believed for plants hat will not bleed much, especially if they have to be trained, or of any particular kind of new growth is wanted. Late in the ammon, and early in the whter or spring, are, however, the promeipal times for proning. It may be extemted to the roots in certain cases, where extreme woodiness is wamted to be restrained.

## FLowering and frutinc.

Both of these states are generally to be brought about where they do not naturally occur with sufficient readiness or force, by a serves of check:. Whatever promotes strong or rank growh is decidedly against them. The perfect ripening of the wood, and in fact, the complete maturity of all the parts, such as a sumy sumner and an exposed situation will produce, are necessary to the full development of the-e tendencies. Tramsplatinur, withholding manure or water, judicious pruning, exposure to the sun and air, keeping the roots near the surface of the sound, sligitly raising the plant above the general level, shallow soil, and thorongh draining, are the beat things to produce fertility, when it does not show
itsolf at the usual priod; and, with the exceptimn of stimting the anply of manure and water, they will be honelicial at all times. Deep plantiing or imperfect drainage, are exceetingly bad; and manure will ordis arily he adverse to llowers. For plants in pars 11 at are prone to become too vigorms, ctampits the roots, diminishing the supplies of water, and putting them a good deal in the open -umshine, will do much towards restoriur them to the desired emndition.

## simetterng and protecting.

Streler from wink should le riven by loose and meshy, lot wid materials. Trees and shrubs ale better for the purpose than walls, as thes stop the huree of the currente, while walls only divert it and un rease its power. Huadles filled in lowely wis reeds or rough laths, or mame hes of :uine or :ur\%, are also preferable, in purti of shetier, to closely hoarded ones, for the same reason.
Shate fio n the - wi:'s rays should, in like manner, be tinu and partal only. A few fir branches stuck anomid the plants to be sharled, or some very thin canvisw or gauzestretched over it, will generally :unfice; the object being merely to break lie extueme power of the sun's rays, and not to -hint them out entiely. Angthing dense or opatue is ther $\cdot$ fone objectionable. Mulching appled owe the soots, to keep the soil very moist, will be a gord substitute for a shade in some ca-es. Plata-rarely want shadmg, unless when they havel een newly removed or are in bloom.

Protection fiom fost may be secured liy simply intereephas the 1 , datiny process. Whatever keeps phats moh mately dry at the roots will greaty lefp to protect them; for frosts act far less upon them at that time uhan when they are in a wet state. A temporary penthouse or a small tent-like canopy, (open at the sides, will un cariunally be sufficient tuth to keep pianto diy dal phesent radiation. But in very sevese weather the y may be covered up more clocely, bearing in mind that the point always to atlailn is to stop tadiation rather than to communicate alditional heat.

When plants, by a sudden occurrence of frost or any other aceident, 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 otiser object which will keep them in the dark until they have gradually tiawed. The design is to prevent the sun from shining upon them antil they are quite restored.

## rotation of crops.

Such an anansement as the change of crops becomes necessary because different plants exhaust the soll of particular elements, and are mone or less grows and extravagant in their habits; so thai where they have grown one year they will have so much withdrawn the kind of food they requie as to be incapable of attaining any pefertun on the same plot in the following sedsun. Ohher kinds, however, coming alter them, may not need anyhing like so much
of the same element, or may not even want it at all. The practice likewise caures a saving of manure, for when the food a crip reguires has not been abstracted from the soil liy a previots crop, manure will sometimes be ciperlluous.Potatoes, scarlet-rumers, brocenti, and the cabbage tribe, particulaty demarid a frosh soil yearly. Pansies, hyacinths, and wher bulles and forists' fiowers that are of hyluid oligin, ats equally fastidious, if they are to be grown to great peifection.

By ridging up the ground in winter for vogetable crops, and thus admitting $\cdots \cdots$ gates from the air, and salts from snow or rain, the comation plan of co, rien becomes less ne essary, theugh it may neve, be entirely dispensod will. Perhaps when the precise food which esery indidual crop re yunes, and the mannus fothy capable of supplying such are more thomehily kiown and experimentally tested, the neressit: for changing yearly the regetable teran- of ally particular piece of land that bes' suits a cenain tribe, may be almost if not altogether atmihilated."

Imphomment in Brick Making.-An invention has, it is stated, just been patented in J:unland, for the adaptation of a prepabation of cole and other substances, by which bicks, paving slabs, door and stair steps, tiles, pipes, biocks, railway sleepers and other articl s of general une by buikers, \&e., can be produce 1 with a periection and at a cost which it is expected by the inventor will eflect a complete revolution in the building trade. The price at which it is pooposed to offer the coke brick to the publie is seately one-third of the cost of the chay biek, white in point of durability it is superior to the best anticle supplied from the kilns.

Fiat Roofs.-All the new homses which have been bult m New York recently, have "hat are termed flat roofs. The roof is neanly leve!, and old hugpeaked roofs are fast disappeariug, we wonder how they ever came into une. The inventor 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 ruof so as to command the fire if it be in the adj. cent building; this cannot be done on peaked roofs. Flat roofs are cheaper and more convenient in every jespect. We advise all those whointerd to build new houses to have flat roofs upon them. It is far better to have a flush story at the top of the buildiug than a peaked cramped up saraet which is only confontable for travelling on the hands and knces.-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 attibuted to cold feet. The feet are at such a distauce fiom the "wheel at the cistern" of the system, that the circulation of the blood
may be very easily checked. Yet for all this, and althong every person of common seuse should he aware of the routh of what $\%$ have stated, thrie is no pat of the human body so much trifled with as the feet. The youns, and would-he-senteco-foxted, cramp their feet into thin-soled pinching boots and shones, in order to dipplay weat feet, in the fashionable semse of the tem. There is one great evil, agains which every prerson should be on their rama, and it is one which is not often guaded asainst - we mean the change of warm for cold shoes or boots. A chatuge is often made foom thick to thm soled shoes, without reflectin! on the consequences that might ensuc. In cold wrather, bobss and shoes nade of soond thick leather, both in soles and uppers, should be won by all. Water-tights ane not good it thery are tights also ; india-rubber over-ahoes should hever be worn exclpt in wet splashy weather. and then not very lons at once. If is himfol to the leet to wear any covernme that is air-tisht over them, and for this reason ine iambler should lee worn as seldom as possible. No $\mid$ ate of the bedy shontd be allowed to have a covernar hat entrely olstancted the pasage of the cort anic gas frem the pones of the shin outwads, and the moderate passage of air inwards to the skin. Life can be desuoyed in a very short time, be emirely closing up the pores of the skin. Good wann stockings and thek-soled hoots and shoes are conservatories of hea'th, and consequenty of human happiness.-Scientific American:

Lafe Puestrinirs.-One of the mos' usefulamimportant mbations of lle precent day is the LifiPe erviny Seats of Mr. Gerrge P' Tewkshary. We k w w of mohing since the mention 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 haman life. These seats are in the form 'm stouls and setters. and are so constructed that whist they answer the purpose of ordinury stools and selte ce, tane nu more roum, atd are just as portable, ther posecos :uh buryaney that one stool will easily support one person on the surface of the water, and a se'tee that will seat thee persons will support the same mumbr. No steamboat, sijp or pleasure boat should be without an adequate supply. The govermment, we understand, are abuit adoptins them in the stips of wa and other govern ment vessels, and the tume must soon eome when they will le in universal demand. and their inventor tooked apon as one of the greates' benefactors of our race. We are much mistaken if the Royal Inmane Socirty of England does not show it appreciatio! of Mr Tewksbury's invention by some sub-antial tolien of acknowledgment. We trust, moreover, that our citizens will not be slow in manfesting their gratitude for the invaluable boun thus conterred, and not lease it for posterity to do, as has been the case with other bencfactors. Another invention by the same gentleman, partahing of the same character, is a lite-boat constructed on hew pinciples, and far surpacsing any other now in use. Inteed, so admirab!y is it calculated for its important office, that under no circumstances can it tunder, sink, or be invetted, unless it be completely broken.-International.

The Scientific American thinks cast iron pavements for ruad a as with supersede the McAdams, Russ and all stone pavements now in use.

| CENSUS RETURNS. |  |  |  | *Indian Territory | 678 | Orford | 1566 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Indin Toritor |  | Tanteim | 2460 |
| We publish below an abstract of the popula- |  |  |  | Total Grey | 13217 | Rommey Tilburv East | \} 1023 |
| tion of the Townships of Upper Cimada, as |  |  |  | Augusta | 5154 | Zone whit Cam |  |
| exhibited by the last census. |  |  |  | Edwardsburgh | 4779 | Chatiam 'Town | 2070 |
|  |  |  |  | Gower, South | 863 |  |  |
| population of upper canada. |  |  |  | Osford | 4.496 | Total of kent | 17469 |
| Townsilips. | Popula- |  | Popula- | Piescott, Town | 2150 | hosanquel | 1093 |
|  | tion | Townships. | tion | Piescort, Lown | 2150 | Brooke | 511 |
| Amherst Island | 1287 | Aldborough | 1226 | Total Grenville | 20707 | Dawn | 556 |
| Camden | 697 | Bayham | 5092 |  |  | Euniskillen | 238 |
| Earne town | ¢111 | Dunwich | 19.18 | Canboroush | 1151 | Euphemia | 1457 |
| Sheflield | 1792 | 1) orchester | 1477 | Cayuga North | 2013 | Minule | 1358 |
| Bath, atotu 620 |  | Malahide | 4050 | Cayuga, South | 82.4 | plympton | 1151 |
|  |  | Southwold | 5063 | 1) 1 nn | 820 | Sumia | 1384 |
| Total Addington | 15160 | Yarmouth | 52S8 | Moulton | 198.4 | Sombra | 738 |
|  |  | St Thomaz Village 127.1 |  | Onerda | 2817 | W:arw.ck | 2669 |
| antford | 6410 |  |  | Rainham | 161.8 | Islands |  |
| L.antford, Town | 3877 | Total Eigin | 2.5418 | Seneca | 3636 |  |  |
| Eurlord | 4.433 |  |  | , | 331 | Total Limbton | 10815 |
| Dumfries: South | 4297 | Anderdon | 1199 | Iralyole | 3.283 |  | E868 |
| Oabland | 810 | Colchester | 1871 |  |  | Bathurs Sücrbrowe South | こ868 |
| Onondirga | 1858 | Gosfield | 1808 | Total Maldmand | 18788 | Sierbrooke South | 487 |
| Paris, Village | 1890 | Maidstone | 1167 |  |  | Bar-ess Sorth | 1110 |
| Tuscarora | $18: 1$ | Malden | 1315 | Esquesing | 6783 | D): then-ic | 1421 |
|  |  | Mlersea | 1193 |  | 6789 |  | 1421 |
| Total of Brant | 25426 | Rocliester | 788 | Nassareweya N'elson | 4078 | She brwke Nort L.e:atut | 399 98 |
|  |  | Sandwich | 4928 | aclson | 4078 | L.e:ant | 98 2648 |
| Arran | 119 | Amberstburg, Town 1880 |  | Total IIaltou | 18322 | Elms ey Nurth | 2051 |
| Bruce | 100 |  | 07. |  |  | Lamariz | 2649 |
| Carrick $\}$ |  | Total Essex | 16817 | Belleville | 4569 | 1)atins | 670 |
| Culross $\}$ not | tled. |  |  | Hungerford | 3124 | Montagne | 3356 |
| Elderslie | 1.4 | Clarendon ${ }^{\circ}$ |  | Huntingdon | 2 J 48 | Packenham | 1868 |
| Greenoek | 24.4 | Janrie |  | Madoc | $)$ | Ramsay | 3256 |
| Huron | 236 | Kennebec | not settled | Elzivir | 2761 | Pett. 'lown | 1916 |
| Kincardine | 1419 | Palmerston |  | Tudor |  |  |  |
| Kinloss | . 17 | Olden |  | Marmora | 635 | Total of lamat | 27317 |
| Saugren | 277 |  |  | Rawdon | 3097 |  |  |
|  |  | Osollowe Island |  | Sidney | 4574 | Bastard | 3448 |
| Total of Bruce | 2837 | Kingston 523: |  | Thurlow | 4160 | Burucss Sonth | 276 |
|  |  |  |  | Tyendenaga | 6200 | Crosby, Norh | 1785 |
| Fitzroy | 2807 | Itoughborough Piusburg | 3:53 | Grimsthorpe |  | Grosby, South | 1578 |
| Gloucester | 30:15 | Bedford | 1118 | Lake |  | Elizat thtown | 7087 |
| Goulbmune | 25 | Po tland | 238.3 |  |  | Eimsleg | 5208 |
| Gower, North | 1777 | IInchinbrooke | 36.4 | Total Ilastings | 31977 | 3scout | 1399 |
| Huntley | 2519 | Storington Wolfe's Island | 21:30 |  |  | Kitlry | 3525 |
|  | 1025 |  | 205.1 | ITay | 935 | leeeds | 2283 |
| Mrach | 20.53 |  |  | Sterthen | 742 | Lau sdowne | $2 \cdot 439$ |
| Nepean | 3800 | Total Frontenac | 19150 | Mrcrillivray | 3 TOS | Yonge | 3601 |
| O:yoode | 31350 |  |  | Biddulph | 20.21 | Brockville, 'Town | 3246 |
| Richmond | 434 | Sancaster <br> Charlottenburg <br> Joochicl | 4023 | U-borne | 1.181 |  |  |
| Tarbolton | 5.12 |  | 50.77 | llowick <br> Mckillop |  | Toial of Leeds | 30280 |
|  |  |  | 417.1 | Mckillop Grer | 84S |  |  |
| Total Carleton | 2.237 | lienyon | 35.4 | Grey Jorris |  | Adol hustown | 718 3166 |
| Matilda |  | Total Glengary |  | Turnburry |  | Predenieksumgh Iichmond | 3166 4071 |
|  | $4198$ |  | 17096 | Ashfield | 807 | chemom |  |
| Mountain | . ${ }^{2}$ Ses 4 | Artemesia | 73:3 | Wawanosh | 722 | Total of Tennox | 7955 |
| Winchester ${ }^{\text {S }}$ | 2\% 6 \% | Bentnick | 1272 | Colborne | 9:4 |  |  |
|  |  | Collingwood | 545 | Hullet | 0.5 | Caictor | 1398 |
| Total Dundas | 13\$11 | Deriby | 471 | Tuckersmith | 1727 | Cinton | 2462 |
|  |  | Eisremont | 665 | Stambey | 206.4 | Gatusborough | 2538 |
| Cartwright | 1750 | Euphrasia | lin | Goderich | 2715 | Grantiam | 3215 |
| Cavan | 41339 | Glenelg | 1250 | Goderich, Town | 1329 | Grimshy | 2448 |
| Clarke | 6190 | Holland | 95.4 |  |  | Ionuth | 18.48 |
| Larlington | (1) 15 | Mlelancthon | 4 SO | Total of Muron | 19198 | Niagama | 2250 |
| Hope | \% 293 | Normanby | 539 |  |  | N:amam, Town | 3340 |
| Manvers | -5if8 | Osprey | 486 | Camden | 1434 | St Catharines | . 368 |
| Porthlope, Town 2476 |  | lrolon |  | Chatham | 1768 |  |  |
|  |  | St. Vincent | 1601 | Dover E. and W. | 1223 | Total of Lincoln | 23568 |
| Total Durham | 3073\% | Sallivan | 518 | Ilarwich | 2627 |  |  |
|  |  | Sydenham | 2432 | Iloward | 2798 | Mlosa | 2075 |


| Cexsts Remurss.-Continued. |  |  |  | Census Returns.-Continued. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ekfrid | 1792 | 'Toronto Gore | 1820 | Cambridge | 200 | Guelph | 2879 |
| Carradoc | 3118 |  |  | Russell | 503 | Guelph, Town | 1860 |
| Metcalfe | 1695 | Total of Pecl | 24816 |  |  | Nich:1 | 2430 |
| Adelaide | 1079 |  |  | Total of Russell | 2870 | Garraftaxa | 2083 |
| Williams | 2292 | Blanchard | 2780 | Adjala | 1990 | EStmosa | 2350 |
| Lobo | 3.145 | Hibbert | 1191 | Esja | 1507 | Peel | 2435 |
| Nissouri | 1832 | Fullarton | 1750 | Flos | 5.45 | Maryborough | 994 |
| Dorchester | $2 \mathrm{JT0}$ | Downie | 7 | Gwillimbury | 389.4 | Minto |  |
| Delaware | 1861 | Downie, Gore | 727 | Innistil | 23.41 | Arthur | 1803 |
| Westminster | 5063 | Logan | 698 | Mono | 1116 | Iuther |  |
| London | 6736 | Ellice | 1328 | Mrdonte | 2689 | An:a:anth | 500 |
|  |  | Fasthope, North | 23.41 | Mulmur | 766 | Piknıyton | 1990 |
| Total of Mi dlesex |  | Rasthope, South | $1 \% 97$ | Notlawasaga | 1887 |  |  |
|  | 32864 | Elma |  | Orillia | 725 | To a ${ }^{\text {, Wellingto }}$ | 29796 |
| Brighton | 3725 | Wallace Norningt | 933 | Matchedash Oro | 20:7 | Jelliam | 2400 |
| Cramahe | 2903 | Mornin |  | Smmidale | $\bigcirc 05$ | Thorohd | 2735 |
| Haldimand | 403.4 | Total of Perth | 15545 | 'lay | 600 | Stamiord | 3:11 |
| Alnwick | 836 |  |  | Tecumseth | 3998 | Crowland | 1.478 |
| Seymour | 2781 | belmont | 2.8 | Tosoronto | 432 | Willoughby | 1352 |
| Percy | 2605 | Burleigh with |  | Tiny | 6.45 | Wainfleet | 1841 |
| Hamilton | 500 S | Dummer. |  | $V \mathrm{espr}{ }^{\text {a }}$ | 906 | llumberston | 2201 |
| Monaghan, South | 1051 | Douro | 1676 | Barric, Town | 1007 | Berite | 2737 |
| Murray | 3725 | Dummer | 1600 |  |  | Chippewa | 1193 |
| Cobourg, Tuwn | 3871 | Marvey with Sinith Methven with Bel- |  | Total of Simcoe | 27705 | Thuodd, Village | 1091 |
| Total of Nothumberland |  | mont |  | Cornwall | $4 \% 07$ | Totel of Welland 20!41 |  |
|  | 31229 | Smith | 2393 | Osnabruck | 4699 |  |  |
|  |  | Monaghan | 9105 | Finch | 1.45) | Beverv | 5620 |
| Houghton | 1.509 | Asphodel | 1675 | Roxbergh | $21: 1$ | Fiamboro, Fast | $20 \cdot 3$ |
| Middleton | 1720 | Enusmore | 675 | Cotnwall, Town | 16.45 | F ambere, West | 3:33 |
| Charlotteville | 2\%か0 | Otonabre | 3872 |  |  | Aucarter | 4153 |
| Windham | 2900 | l'eterbors' 'Town | 2191 | Total of Storasint | 1.1t.43 | Glamdford | 2408 |
| Townsend | 4935 |  |  |  |  | lii.brook | 1737 |
| Woodhouse | 2894 | Tolal Peterboro' | $1523 i$ | Mariposz | $3-95$ | Stabflect | 2801 |
| Walsingham | 3090 |  |  | Ops | 2512 | farton | 173.3 |
| Longr Point |  | Caledonia | 958 | Emily | $276 \%$ | Dindas, Town | 3517 |
| Ryerson's Island |  | 1.awkesbury West | 2665 | Eldon | 1020 |  |  |
| Simcoc, 'Town | 14:2 | Hawkesbuy East | 31095 | Fencion | :90 | Total, Wentwath 23jot |  |
|  |  | Longreenil | 1406 | Bexley | 1 |  |  |
| Total of Yorl ik | $212 s 1$ | Alfred | $5 \times 4$ | Veruiam | 571 | Etob coke | 3483 |
|  |  | Plammsenet North | 120.2 | Sommer ville |  | Valurtama | $77: 3$ |
| Whitby | 74915 | Plantigenct Sourh | 1643 |  |  | Mar Etman | 7752 |
| Pickering | 6737 |  |  | Tolal of Victoin | 116.57 | Sca. burough | 424. |
| Uxbridge | $\cdots$ | Total Prescott | 10487 |  |  | Yook | 10035 |
| Reach | 3697 |  |  | Wateloo | Tis9 | king | 68195 |
| Brock | 3:18 | Ameliasbugr | 3286 | Wimot | 5297 | ( willimbury, $_{\text {N. }}$ | 1176 |
| Thorah | $11.4 ;$ | Athel | 1621 | Woolwich | 3193 | Gwilimbars, E . | 32 lis |
| Rama and Ma:a | 1.40: | Hallowell | 3203 | We.llesley | 2.4 | Whitc.unch | 4758 |
| Scugors | 415 | Hillier | 2302 | Dumfries, North | $3+76$ |  |  |
| Scott | 1028 | Mayshurg | 35.43 | ( $\mathrm{a}_{\text {all }}$ | $\cdots$ | Total of Tork | 4:34.4 |
| Georgina | 10105 | S. phiasburs | 293.4 | z'eston, Village | 11:0 |  |  |
| Oshawa | 11.2 | Picton'Tum | $156!9$ | zicston, |  | City of Torento | 30775 |
| Total of Oritario |  | Total of Pince Edwad |  | Total of Waterloo | 20.37 | Cits of Kinseston | 11585 |
|  | 3576 |  |  |  |  | City of thamilton | 14112 |
|  |  |  | 18857 | Ein | 3591 | Town of Briown | 7760 |
| Zorra, Eiset | 3200 |  |  | Pusiouch | 381;2 | 'Town of London | 7035 |
| Zorra, West | 3302 | Admaston | 685 |  |  |  |  |
| Oxford, North | 1378 | ]argot | 734 | RECAPITLLITION. |  |  |  |
| Oxford, East | 2010 | lilytiefield | 200 |  |  |  |  |  |  |  |
| Oxford, West | 189.4 | Bromley | 687 | Addington | 15165 25.45 | Inuron liail | 19199 17469 |
| Derehamu | 3iblt | Horton | 1142 | B:ant | 20.45 $2 \times 37$ | Leambton | 17469 |
| Norwich | 5239 | Russ | 708 | Brace | 2837 23637 | lamabton Lamarle | 10815 |
| Blenheim | 4095 | McNab | 1513 | Carleton | 13811 | Lamark | 27317 30280 |
| Blandiord | 135is | Westmeath | 1152 | Dundas | $13 \times 11$ 30732 | Leeds | 70280 795 |
| Nissouri, Fast | 2118 | Yembroke | 633 | Durham | 30732 25418 | Lennox | 7955 33868 |
| Woodstuck, Town | 2112 | Stalford | 281 | Bigin | 25418 16817 | Lencolu | 33868 32864 |
| Ingersolh, 'lown | 1100 | Brougham | 438 | Essex Frontenac | 16817 19150 | Middhesex Nontumherland | 32804 31229 |
| Total of Oxford | 326:3 | Wilberforce | 55.4 688 | Frontenac | 19150 17596 | Nontiumheriand Norfoll | 31229 21281 |
|  |  |  | 688 | Grey | 13217 | On ario | 30.76 |
| Albion | 4291 | Total of Renfrew | 9415 | Grenville | 211717 | Oxford | 32638 |
| Caledon | 3707 |  |  | Maldimand | 18188 | Peel | 24816 |
| Chinguncousy | T469 | Cumberland | 1659 | Ifalton | 18322 | Perth | 15545 |
| Toronto | 7539 | Clarence | 503 | Hastiags | 31977 | Peterboro | 15237 |


| Cinsus Rertans.-Continued. |  |  |  |
| :---: | :---: | :---: | :---: |
| Pruscolt | 18497 | Wentworth | 28507 |
| Pince Edward | 18887 | Yoik | 48914 |
| Renliew | 9415 | City of Toronto | 30775 |
| Russell | 2870 | City of Kingsinn | 11:85 |
| Simeoe | 2716: | City of Inamilton | 14112 |
| Stormont | 14643 | Town ef Bytown | 7760 |
| Vic:oria | 11 li:7 | Town of Lundon | 703.) |
| Waterloo | 26037 |  |  |
| Wellington | 26796 | Total | 9.52004 |
| Welland | 20! 4 |  |  |

## MISCELLANY.

## 'TIIE PHILOSOPIIY OF COOKERY.

## From Mrs. Hale's New Cool Bool.

Miss Sedequick has asserted, in some of her useful books, "the mure intelligent a woman lecomes, other things being equal, the more judiciously she will manage her domestic concerns." And we add, that the mure knowledge a woman possesses of the great principles of :noral:, phatosophy, and human happiness, the more importance she will attach to her station, and the nime of "a good housekeper." * It is only the frivolons, and those who have been superticially educated, or only instructed in showy accomplishments, who despise and neglect the ordinary duties of life as heucath their notice. Such persons have not suficient clearness of reason to see that "Domestic Eeonomy " includes everything which is catculated to make people love bome 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 fool.

The powers of the mind, as well as those of the body, ate greatly dependent on what we eat and dink. The stomach must be in heath, or the brain camot aet with its mmost vigour and clearness, nor can there be strength of muscle to perfonm the purposes of the wil!.

But furtier, woman, to be qualified for the duty which Nature has assigued her, that of promoting the health, happiness, and improvensent of her species, mist understand the natural laws of the human constituion, atad the catuees which often render the efforts she makes to please the appetite of those she loves, the greatest injury which could be inflicted upon them. Often has the afectionate wife caused her hasband a slecipless night and severe distress, which, had an enemy inflicted, she would seareely have for-given-because she has prepared for him food which did not agree with his consthmtion or 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.

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

[^0]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, songht to embody, from reliable sources, the philosophy of Cookery, and here give to those who consult our "New Book" silh prominent faets as will help them in their rese: rches after the true way of living well and being well while they live.

Modern diecovery has proved that the stomach can create nuthing; that it can no more funish us with llesh out of food, in which, when swallowed, the e!ements of flesh are wanting, than the cook cim send us up roast beef without the beef to ronst. There was no doubt as to the cook and the beet, but the puzale about the stomach came of war not knowing what matters various sorts of food seally did contain; from our not observing tue elfects of particular kinds of food when catea without anything else for some time, and from oun not knowing the emire uses of food. But within he last few years measures and scales have told us these things with just the same certainty as they set out the suet and raisins, cumamts, flour, spices, and sugar of a plumpuddan, and in a quite popular explatation it inay be said that we need food that as we breathe it may warm us, and to renew our botlies as they are wasted by labour. Each purpose needs a different kind of food. Our frames are wasted by labour and exercise; at evely move some portion of virr bodies is dissipated in the form either of gas or water; at every breath a portion of our bluod is swallowed, it may be said, by one of the elenents of tie air, oxygen ; and of strength giving food alone it is scarce possible to cat choush io feed at once the waste of our bodies and this hul gry oxygen. With this oxygen our life is in stm:e sort a continual battle; we must cither supply it with especial food, or it will prey upon ourselies-a body wasted by starvation is simply edten up by oxygen. It likes fat best, so the fat goes first; then the lean, then the brain; and if from :o much waste, dealh did not result, the stnews and very bones would be lost in oxygen.

The more oxygen we breathe the more need we have l., cat. Every one knows that cold air gives a kcen appetite. Those who in town must wesle land palates with spices and pickles to get up some faint liking for a meal, by the sea, or on a hall-side, are hungry every hour in the day, and tiee languid appetite of summer, and crowded rooms, spring into vigour with the piercing cold and open air of winter. The reason of this hunginess 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 plove, by holding a little balloon half filled with uir near the fire, it will soon swell up, showing that hot air needs more room thatl cold.

[^1]But the oxygen does not use up our food an:l frames without doing us goud senviee; as it devours it warms us. The fite in the grate is uxygen devouring carbon, whether in thee shate of coalds 11 a stove or fat in our bodies, the result of the struggle (if we may bu allowed the phase is heat.

In all parts of the worid, at the Equator and the Poles, annid etemal ice and under a perpendicular sun, in the paresed denert and on the fresh moist fields of tempe:ate zones, t!e humat: blood is at the same he t ; it neither hoils nom free\%es, and yet the body in cold air parts with its heat, and just as we can keep an canthenwate bottle filled with boiling water hot, by wrappius it in a dlamel, can we keep our bedies wam by coveing them closely up in clothes. Funs. shawls, and herse eloths have no wamti bat themselves, they but keep in the natmad wamb; of the boily. Every traveller knows that stather without ineaktast, or neglecting to dme on tae road, he leels more than usually chily; the effect is very much the same as if he sat lo las; meak on the same cold day in a som winh,n! a fire; the internal fuel, the tood, wheh is the oil to feed hife's warming hamp, is wating. (0. this account, a starving man is far souner ha \% $\%$ to death than one with fiond in his wallet. 'Itre unted body tapidly cool, down to the temperature of the atmosphere, just as the gate cons when the fire has gone wan. Bodiay heat 's teat produced in any one porion of the body, 1 , 1 in every atom of it. In a simgle minute abou i.: pounds of blood are seat ilcwis.g ithough in,t fungs, there the whole mas meens the ait, stachs in its oxyen, and speedmen carices to elery portion of the frame the fwwer w!ich may be Eaid to light up every aivn of fle h, umbe, d!ad bone, and to heep the flame thoughout the bosy ever buming with the fresh wamatio ot dife.
In accordance with these facts we fith inen aid over the world acting lastinctuvely: In a cond climate, either by necessity or choice, we caen ourselves, quicken the bloort's speed, bueathe rapilly, take in oxygen targe!y; in stort, tata tha: flame which quick-returangy hunger mahes tis foed. Even the least cavilazed lollow conceang the natural law ; the truat so largely caten by ue native inhabitants of the tropies comaias m every 100 ounces not more th.u1 12 of direct heat-puducing clements, while the blabber and on of the lisquimax have in every 1 lio ombes some So ounces of such elem:ms. Nior is it possible without injuious effects to have on opposition i, i this instingt which science has shown to be ia strict accordance with the imtertion of nature.
So far therefore we have evidence that good may come of method in cookery. " Plum-pud-

[^2]ding is uo dish for the dor-days, but its suet blunt, the keen tooth of winter. Nor is it a mere sentimeutal sympathy that makes the wish to give the phor a good Chrintmas dimme. Scant fire makes cold more bitter. These who, poorly clad, must face the wintry. wind unfed, shiver duably in the blast. The internal fire sinks for W.unt of fuel, and the external air drinks up the lithe warmth the slow consuming ss stem gives.

Milk, when a ditule remet is ponsed itao it, hecomes eund and whey. The cund, chemists call amimal cosein.

Witen the water in which the meal of peas ivems, or hentiles has been steeped for some time, is warmed, and a :anle acid is poured ino it. it :Aways gives a cord called regetable cascin, which is precisely the same as the curd of milk, athi cont.ins hate it , all the ingredients of the bloud.

Theote is, llwn, no difficulty in understanding how , mie mat inc col peas, beans, \&e., just as ou milk or tueat.
Whe: the white of eser is poured into bolling wacer, it beconnes firm; the sabstance su formed Is cathed animat ahmmen, and is idemeal with the atbmen of the biom!.

Whea vegredtes ate pounded in mortar, the Fow juice expreseth, lets fall a sediment which mass gives ora laguely, mad which is also to bo had hom aill kinds of sram. ithis deposit is the same ats the fibrin or lean of desh. When the romamate clear piece is boited, a dich jellytake substance ts demed. ('athbower, broecoli, abbare, and asparasus are espectally rich in this eongutating mbstance, which is the same thing as whate of cro-mimal abmmen. It is called, therefore, vegeable abmomen, and is, in common with the who of exor, idemteal with the albumen of blaod, which withthe fitm, whether ammad or wexetabie, is the source of cerery portion of the human body.

We cer, therefore, that the cattle have in peas atad berms as c:asim, in com and gress as fibrin, in smally verepatles as albnoct, the very mattetals of thention: and that, whether we live
 we are in faet eathay fiesh; in meat, det readymatio; in the case of the cthers, diet containing tho tit ingredems of preparation. Nor are wo feft in the leasi thathw of doubr that albume?, of what ver kinh, is: sufficuent to produce flesh, for uon only to we tind every inaredient of flesh comained in it, but we can turn the flesh buck to albumen. $\dagger$

But bonides the ficsh-making ingredients, viz: the albunen and fibrin, we have shown that it is
gives. in its farinaceous food, infusion of malt and uses milk and sugar, the respiraiory matter prepared hy nature hesself for the respiratory process, in preference to cane sugar; and she allows him the unlimited use of salt."
$\dagger$ "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 ndmired, than that which is concerned in the preparation of our food."
needful the blood should have food for oxygen ; this also is coutained in milk, grain, pulse, vegetables and meat. In the meat as fat, which more or lesis the juices of the meat and even the lean contiin, in the pulse, grain, potatoes, as stareh, in the veretables as sugar of varions kinds, and in milk, as sugar of milk.
(To be Continued.)

## interesting to cavadian wieat. Growers. <br> From the Norti Amcrican.

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 Mork Lane Express asserts that wheat will be less cultivated than formerly. That joumal thinks present prices will be maintained. The correspondent of a Hamilton paper, under date of Lomion, Th Jamary, says:-
The continuous and heary drain of gold has induced the Bank of Ensland to rase the rate of discount from 2 per cent., it which it has stood since the 22 nd of April, to $\geq 2$, per eent. This was resolved upon yeverday, the 6th. One of the principal causes of this raise is th. scarcity of be eadstuffs at home, and the ladness of the weat er The advices frum Odessa last week state that 150, e00 quarters of wheat had been purchased for the Enelish waket. and for this gold has to be prorided. Very consi• enable shipm-nts of specie will have to be made to the continme, and the desertion of seamen fom tire ships which have arrived in Australia has preveuted arrirals of gold frum the colony. where immense quantiti-s are lyang in sto eneady for export. Preers of wheat have an uparad tendency, andit, as we dumbly beline, the English farmers will fiom year to yeal dimmish its growti, pices will rule higher and higher at finture periods.

Cumbse Jrviss-A Chinese ship or jumk, ic scldom the property of sere individual. Sometimes 40 , 50 , or even 100 dhferent merchants purelase a vessel and divide ber into as many different conparments as thene are pat thens, so that each knows his own partucular part in the ship, which he is at liberty to fit up and secure as b. wleases. The bulk heads by which these divisions are tormed, consist of four stont phanks so well haulked as to be completely water-tight. A ship thus form d way surike on a rock, and yet sustain no seriousinjmy; a leak springins in one division of the hold will uet be attended with any damage to atticles placed manother; and, frons her firmness, she is qualified to resist a more thau 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 swallest the number is very considerable.-MrCulloch's Dictionary.

## Joctin.

THES FADED ILEA IIIER.
[It is recorded of the Highlatd emictams to Camada that the $y$ wept because the heather would nut grow in their newiy adupted som.]

There may be some two brave to wecp
O'er puverty, or care. or wrons,
Wiathin wh se mathly besom sleep
Bimbiths, gentle. warm antirong,
Which watit ue wakemur of at ton-0 Lnmated. minthought on bs the erowd,
And seemingly to buematome
A woue hoth clouf.wn and hom;
And then the feeling, had for ye:rrs.
Buast tonthat lemeth in burnang tears.
He wept. that hardy momatancer. When faded thus his loved heatio-flower;
Yet mid the alls of lite no thar Ihad wet lise check unt th. thoser.
You mighthave deemed the monation Had somer shrumb before the blast,
Or that his nature rock would t.e
Reat the the watis whin haumed past, Rather than he a lear thould -hird
Because a widd-llower dromped his head.
It would net grow-the healhe flewer, Fir trom its native lant -xaleol
Though toreczes from the forex twaver
Gected the foncly momban chad;
It be ter loved the wild bieah whad Which grew upon the Hightand hall.
And tor the rorky heath it pined.
Though weded tath wria cure and al.at;
An extle on a manger suand.
It baygustad ton the tative hand.
Oh! if the heather had hem srown Andllowned u,on a tonciga secue,
Its owner hat mot telt athe:
Thenth a aid exth be hul tue 1;
Dut when he matabel baveraty de:th.

Whated benalth a fores ab breath.

Aad de a etr.user and hom.

Amal Navigation -M: Rufus Poter an ounces that he "now behores that his hapom may be pute in full operation in two or three week of mild calm, pheasant weather." at this ceason on t:e yenar. so long a period of mid, calun a.d pleasant weather would be as woni: rfall as Mr. Potar's lirs: rosane. The machme is one hunded f ethom, io te propelled by stam enyenrs and capable of conrying sia persons, and traveling fory miles an hom.

Reputation Armer Deatio--It is wiy singular how the f.ct of a man's death serme to pire pople a truer idea of his character, whethere fir gove or evil, tuan they bave "rer posicsised white he wis living :med actuy among them. Death is so senuine a lact that it exemudes falsehouds, or betrays its cmptiness: it is a tonchsture that proves the gold and dishonors the baser metal. Could the departed whoevei the may be, in a week atter his decease return, he would almo-t invariably find himself at a higher or lower point than he had formerly occupied, on the scale of public :ppreciation.-Hawthorine.

Anotura Victim of the Rippina Demosinx.-Martin Lanydon of New York, committed suici ie on Friday, while in a state of mental deprossion. caused by frequent attendance upno the "Spirithal Rapping Circles." The jury which examined the case, recommended that the Grand Jury take measur 's for the suppression of these circle mectings. Pom Langdon had lost a daughier, and was made to believe that he could becomr a "medium" and ser his list chilh. In the effort he lust his reason, and ended his life by cutting his throat.

Bematiocr in Company.-On the subject of behariom in compuy, Leigh Richmond gives the fullowing exce lent advice to his daughters:--" Be cheerful, hut not ginglers. Be serious but not dull. Be communicati, but mot forward. Be kind, but hot servile. Beware of silly, thoughtless speeches; athough jou may forget them, others will not. Remember that God's eye is ia every place, and lis ear in every company. Bewate of levity and familiarity with young men; a modest reserve without affectatiun, ithe on'y safe path. Court and encourages rious conressation with those who ate truly serious and conversable ; and go not into valuable commany without endensuring to impove by the intercourse permitted you. Nuthing is more unbecoming, when one part of a company is engaged in prolitible and interesting conser-ati., than that another party should be trifling, and talking comparative nonsense to each other.'

The Fhest Negessary of Lupe.-Potatoes contain 70 per cent. by weight, and turnips no less than 90 per cent., of water, which explame, by the way, the small inchation of turnip fed cate and sheep for drink. A vectste.sh, strungly pressed between blotting papet, gields manty four-hifhs of its werght of water. of the human frime, bones included, only about onefourth is solid matter (chefly cabon ami nitrogen), the lest is water. If a man weighing 10 stone were squeezed flat under a hydraulic peess, $7 \frac{1}{2}$ stones of water woud run out, and onty $2 \frac{1}{2}$ stones of dry residue would remarn. A man is, thereture, chemisally speaking, 45 lo of carbon and nitrogen diffused in $5 \frac{1}{2}$ paiatuls of water. Berzelius, indeed, in recordi:g the tact, justly remaks that "the living organsm is to be cenatdel as a mass ditlused in water ; and D.1ton. by a sertes of experiments on his own persom, found that of the food with which we repar this water buid fabur, live-sixths ate also water. Thus amply does scrence contirm the popuar saying, that water is the "first necessiry of fite:"-Quarlerly Review.
Time Wife's Universal Rival-lt must cuer be borne in mad hat mans love, even in ths happest exercise. is not the woman's; for whie sthe empioys herseif though every hour in tond $y$ weaving one beloved mage mo ath her thoughts, he gates to her com_ paratively tew of his, and these perhaps neither the Iotiest ther lue best. It is a wise beghaning, then, for every maried woman to make up her mand to be forgoten though the geater part of every day; to make up her mind to many sivals too, in her husbanads attentions, thuygur int in ths love; and among these 1 would nention a ne, where clam it would be foly to dispinte, shace no remastances or reprisentations on her pat wial ever be able to atemed less nitataine the chams of this comperitor. I mean the newspaper, of whose absurvang min rest sume wites are weak envagh to evince a s.al ol childisti jealousy when they ounth rather to compratulate thenaselves that thei most formidatie ritails vie of paper.-A/s. Ello's Hives of Engldum.
A pictupe of the true Gentieman.-The true genteman is one that is God's servamt, the world's master, and his own man; his virtue is his business, his study his recuation, contentedness his iest, and happmess hi reward: God is his father, the church is his molhor, the saints his brehren, all that need him his fruends, and heaven his inheritance; relgion is his mistuess, piety and justice his ladies of honour, devotion is his ehaplam, chastiy his chamberdain, sobriety his buller, lemperance his cook, hospitality has bousekeeper, providence his steward, clanity h:s treasure, piety his mistress of the house, and discret.on 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. IIe is necessita.ed to t.ke the wold in his way to beaven. but he wah , though it as fast as he can, and all his business by the way is to make hmself and others happy. Take $h \mathrm{~m}$ in two worde, he is a man and a christim.-Cicment Eilis, a divine of the 1 thlh Centary.

Nagara Falds ayd Lake Eue-Profezsor Silliman, the eminent geologist, ciscredits the opmon advanced by some, that the gradual wearing away of the rocks of Niagara Falls, may possibly result in draining Lake frie. In a recent lecture be cimark-ed:-They whal not halt at theit present station, but ret:eat slowly and surely abent two males further, where they will stop again for an miknown period, and probably forever, sume at this patee the hard limestone will form both base and top, ot the falls, and thus stop the rapid destruction of the rock. Some have thought that they would final $y$ reach Lake Erie. and that then the Lake woutd be completely drained. Such an event is imposs ble. At the point alrealy meatooned, the torrent will gladually wear away the surface of limestone, forming a rapid, and henceforth Niagara will be one of th: lust wouders of the world.

Lime Water, for Hens-Accidental. Discovery. During the last season, Mr. Juscph liilcux, of this lown, having occasion to admicuster $\mathrm{im} \cdot$ water to a sick ho: se. imadvertenty left a pal of the preparation in tis ban, which iemained there for some months, surving as a favourate drink for his hens. He soon found that the laying of his hens was ap, arenily increased to a cons derable extent. Bemy convinced of the imprortance of the (to him) new disconey, he bas during the present season, liept his hens cimstantly supplied with lume wate!, piaced in troughs within their convenient access, and the reont was in increase in eges of nearly fou-fold as compared wihprevious experience.
He is willing to share the benefits of the experiment with his ne,ghbours if they cho 'se to try "t and bence this publicatiun. The newness of the dise vels (hough in m ly not be new to all) is clamed only as applicable to the mode of impartons the lime bu this case. Its use in another form tur the purpose havin: been previously understood by many- - Wayne Sentinel.

Monster Fosshe Remans. - In the river bank, at Zancsille, Ohio, it appears that some g gamic fossil remains have beead scovered ; which are the third of the sume species discovered whith the years. The Cuurier salys:-The one found yester ay was in much the best condition, and may when com, 1 tety exhumed show almost the embre bunes and fame of the hage nonster, much beyond, prihty doubl, the size of the living Asiatic or Afican elephant. The monar teeth, four in number, all that the species posiosish, were frund ia the jaws somad and unbrolen, and two weigh founteen pounds each The tusks were not in as good coadition, only one being sumud en ugh to be:a moving. This me, only 8 feet i: length, measues at its its bise $26 \frac{1}{2}$ inches in circumf. rence, and at the point 8 fret distant; whese it is br.k $\because n$ of $10 \frac{1}{2}$ inches in circumference, the whole ieng:h of which was probably le feet more. We learn hat it was intended to postpone the calbumation of the ofher portion of the semains for a day on two, in anticipation of here arrival of our old townsmin. John W. Fustrer, Esq., U.S. Geologist fiom Lake Supenor."
If a proud man makes me keep my distance, the comfort is, lie 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 seflection.

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

Horace Grefley a Farmfr--About 30 miles from New York city, on the lue of the Harlem Ranlroad, Horace Greele:, of tho Tribune, has a tarm 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 maki::g "the wilderness blossom as the rose," an' re.p, pofit in health and happiness, if in no other shape.-The Plow.

The Chinese do everything different from other people. We have a "jack" for pulling the boot from the foot; the Fluwery Land people, on the contrary. hitre an instrument for pulling the man from the boot. Having first placed the brogan in the vice, they apply a yohe-shaped lever to your neck, and this is worked by a self-acturs 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, waled into the stream, and swam across a deep purt, and was found by an "carly riser" sitting on the bank of the river-asleep! Remarkable cnough, as the girl was only thiteen years old, and couldn't swim when awake!

Wonderful Coat.-A clever tallor 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 thansmogrified into the sombre hue of mourning; he inflicts another tuin and shake and he appears in the Quaker garb, a real Simon Pure; and by another turn and shike 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 Encr. Stan.

Mome Cotron Erna Indi.-Mr. Fleming, Secretary to the Manchester Commercial Association, received advices irom the Secretary to the Hon. Last India Company, on Saturday, that the Court of Directors had instructed Mr. Wm. Rathbone of Liverpool, to forward 10 him for sale in Manechester two consignments of cutton; one amountung to 500 bales, per Chancellor, and the other to more than 1000 baces, per Tooch Lummond, shipped at Bombay. These are the largest consiguments yet made of coiton grown under the experments making in India 10 enculate its cultivation there, and they co:sist chiefly of Dharwar cotton raised fiom New Urecans seed, the giowth of 1850-51. There are, however, amongst this cotton some tew bates giown at Schwan aad Hyderabad (Scinde), Candeish and Kurrachee.

## GOOD NIGII'1.

## Ey shelley.

Good night I ah nol the hour is in Which severs those it should unite ;
Iet us remain torether sull-
Illen it wall be goob inght.

## 'IWILIGII'T'.

EY WM. sydNey filayke.
As dimmer grows the sukng light of day, A thousamid sinpes. by uminle tiney brought, Float trem mysterious t ; ions far away Epon the risug the of peacefth thonght.
All hat gives glory to our chaldish years All that minto the piat the heant ean bind,
Youth's the winged vi=tons throngeng joss and fears, (inde through tae ghosty labymilhs of die amd.
Now Ispiration, near the breahing morn,
Ranses timmpham her rejoiciar pisalm;
And Hope, Jong saling over se:is forlorn.
Is kresed by sates that tell of endless calin.
Now, tiom the openang ske's upon the carth,
Deecends the bloom prameval ; now appear
The verohs that do have insthortal hath.
The thonghts that moke our haman life more dear.

## WHITBY AGRICUIATURAL SOCIETY.

The annual mecting of the Agricultural Association of thas lounshy, was held an the Tuwn Hal, Brouklin, on the 2 thin hist The Refort of the Secr-tary; Juhn Ritson, for the past year was read and adopted, which shows a balance in cash on hand to commence the operations of $:$ h. New Year of...... 5

The receipts are balance on hand lst
January, 18ジ2,........................... 15 is 180
Catsh l. om subscuptiou . . . . . . . . . . . 5110.0
lintiy Fees .......................... . 0. . 100
Government Gramt.................... 3010 6
£98 8
Disbursements.
laid Premiums at four liatrs........ f60 150
Do do Ploughin Match..... 400
Judges' Dinners,........................ $117 \quad 6$
Incidental expenses.................... 5 1.3 0
Casin on hand. .......................... 29 3
$\Varangle 98 \quad 8 \quad 5$
The propricty of organizing a County Socicty was discussed, and resulted in the following iesolutions:
Moved by J. H. Perry, seconded by John Shier, and

Resolved-That this meeting fully approve of the forming of a County Agricularal Nociety for Su-tario-Carried.

Moved by E. Birrel, seconded by John Clark, and

Resolved-That the President and Directors of each of the Township Agricultural Socicties shall form a committee, and take such means as to them may anprar the best, to procme members of their respective Township Sicielies to forma County Socrety, and to call a general meeting of them and all obbers bkely $t$ join the Sueiety, fry the puryose of appointing oflice bearers for the pr-ser:t year, and that such general meetung shall take place upon the second Wednesiay in Febuluary, at the Free Church, in Whitby Village, at 12 "cluch, nuou.-Carried.

The officers clected lor ti.e Whitby Brench for 1853 are: President, Juhn Ritson; Vice-President, John Duw, Secretary, J. II. Peary; Preasure, Juhn Corbei. Directuts:-A. Fareweil, James Cothet, John Rateliffe. Juln Shier, Joseph Pierson, James Mitchell, Benjama Rodgers, Thomas Lumsiden, and James Pile.

The first meeting of the Directors wal be held in Whitby village on Wednesday, the 9 h 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 conld 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.-Ed.

## hiQUID GLLE.

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

## A CHEAP BUT GOOD TOOTH-POWDER.

Cut a slice of bread, as thich ats may be, into square, and buin in the the unit it becomes charoval; after which $p$ und in a mortar, and sitt through a fine muslin. It is then ready for use.

TO REMOVE INK STALS 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-mathogany; or any other. It also cleans the brass work.

## parsnil wine.

Take fifteen pounds of sliced parsuips, atd boil unthl quite soft in five gallons of water; squece the liquor well out of them, rom it through a sieve, and cadd three pounds of coase lump sugar to every gallon of liquor ; boll the whole for thee quarters of an hour; when it is nearly cold, add a lithe 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 jear. As it wolks over, fill it upevery day.

## for picilding eggs.

If the fullowing pickle were gener.lly known, it would be mone generaliy used. It is au cxecellent pickle to be eaten with cold meat, \&e. The eggs should be boiled hard (say ten minu:es), and ducested of their stells; when quite culd put them in j ras, and pour over them vinegar (suficient to quite cover them) in which has been borled the usual spices for pickling', tie the jars down :ight, with bladder, and keep them until they beyin to change culour.

## for chilblans.

Take boiled rain water one ounce, lunar or silver caustic one seruple, dissulved. Then with a swan feather give the place a coating of the above; if $i_{t}$ turns black in a few hours the chilblains are cured, if not, give another coatiug. Should the chilblaius 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.

## fon a cougir.

Quarter of a pound of linsed; quarter of a pound of raisins; two ounces of stick liquorice; two quarts of soft water, to be boiled until reduced to hall the quantity. When straised, add a quarter of pound of brown candy, pounded; one tablespoouful of good old rum, one tablespoontin of lemon juice or vinegar, A cuptul to be taken on g.ing to bed, and more frequenly, if required. To be warmed. Used for years, and approved.

## a very excellent axd cheap cake.

Two pounds and $a$ half of hour, three quarters of a pound of sugar, three quarters of a pound of butter, had a pound of currants, or quarter of a pound of raisins, quarter oi a pound of orange peel, two ounces of car, iway seeds, half an ounce of ground cinnamon. or ginger, four teaspoonfuls of carbonate of soda, mased well with rather better than a pint of new molk. The butter must be well melted previuns to being mixed with the ingledients.

## ecoxosical famly pedding.

Bruise with a wooden spoon, though a colander, six large or twelve middle-sized builed potatocs; $b$ :at four cggs, mix with a pint of good mulk, stir in the potatues, sugar and se soning to taste; butter a dish; bake half an hour. Thes receipt is simple and econonical, as it is made of what is wasted in most familits, viz., cold potatoes, which may be kept two or three days, till a sufficient quantity is collected. It is a we.kly dish at out table. A teaspoonful of scorch ship mamalude makes a delicious seasoning.

## WEATLLER, MARKETS, \&c.

The present winter, so far, has proved a great contrast to the last. Up to the begiuning of tho year, most lield operations could be carried on in the wescan section of this lisvince, and the mean temperature ranged very hish. Jantary has been a seasumble month, moderate frosts with heavy falls of suow, so that the wheat plact has been sumfieiently proteced, and goud sleighing affiorded the farmers for hamling fiec-wood and timber, and getting his produce to market. All kimds of produce continue to fetch remuncrating prices, and a healthy trade seems to be opened tor the future. Flour in 'Woronto maket ranges from 21 s a 23 s 9 d per!anel; Wheat 4 s 3 d a 4 s 9 d per bushel; Barley 2 s 3 d a 2 s 6 d ; Uats Is dd a 1 s 10 d ; Peas 2 s bda as ; Butter, Mear, Egge, \& c., con, tinue to maintain companatively high rates.
From England we hear that a succession of heavy rains during the last three months of the year had produced destructive flouds, and had consequently retarded whear-ouwi.g, in sume luralities, indeed, very lit.le whent had been deposited up to Chris'mas, and what bad been sown on wet ground was greatly injured or perished This evil had been more or less. expertenced builh in Scutiand and Ireland, and minst tell heaviy on the crops of $n \cdot x t$ harvest. The potato rot was exiensively prevalent.

## EDITOR'S NOTICES.

Hon. Anam Figacsson on Duriay Stock-Too late for the prescit number ; it shall appear in our next.

## Anricultitat, Jounntl, and Trangactions of ters Lower Canada Agmicultural Society. Montreal.

The January uunber, forming the cummencement of the 6til vol. of this useful periodical, is before us, and we offer our hearty congratulations to its persevering Ealitor, Wim. Evans, Esq., and the Directors of the Lowir Canada Agricultural Socirty, under whose auspices it is publishel, on the succ ss which has evide.tly atten:'td their labours. 'The present number of the Juurnal lears marks of a healthy progress; and when the Buard of Asriculture for Lower Canada shall lave been organized, in accordance with the prorisious of the now Agicultural Statute, and shall have got fairly into operation, we shall confidently iock the thages of our respected contemporaty (picsunsiss it will be made the o:gan of the Boasc, as it is nuw of the Society) for much saluafle a.d interestirg 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 characteriztic of an $A_{2}$ ictidual periudical. Fiom the Editor's long experience in practical farming in the Lower Province, we contidenily look to the increasing usefulness of the fraper when is entusted to his hands; and most suncerely do we hope that the only kind of rivary between the two Buads and Jouinals of this noble biovince may be ihat which consists in doing, the largest amount of good in its respective section - flothe countiy ut large.
iha 'Panadin Journal; A Repertony of Industry, Schence, and Aut. 'lo.onto: Hugh scobie. 1853.
This va uat le serial fully sustains, as it proceeds, the high eximate of meit which we expersed at its comm?ncment. It is conducted with much ability and judgnent; and as being the organ, and, therefore, contuininy lice proce edings of The Canaman Ingtitcte, a joung and alseady vigorous Society, it can harcly furl, we sloul.t hupe, to command the confidence, as it most richiy deserves the support, of the thinking and improving portion of the pubiic. The Janualy numb-r is enriched by much valuable original matter, and the cx.racted articles evince a sound, discriminating judgment. We regret that we cannot make roum, as we iutended, for the eloquent and instructive annaiai addiess of Captain Lefioy, the President of the Institute, contained in the present number. Niany of our radurs will regiet to learn that the county w:!l shortly be deprived of the valuable scientific services of Capran Lrfroy, the abie and accompl.shed Supu riutendent of Her Majesty's Magmetic Ollouvatory, near this city; but we earnestly
hope that means will be devised of continuing unbroken the interesting and important serics of observations whick lare been for many ytars so accurately and sjstematically made in that Institution. Buth 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-tigstion enlarged,-embracing astronomy, \&c. Our agricultural readers eren, ate much more deepy interested in sevetal of the iluquiries 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 $1 . g$ civilized nations in carrying forward the highei branches of science and art. With this vicw we caricstly entreat all well wishers of their countiy's enduring welfare and progressive advancement to exteud a prempt and jiberal support to all such oryanisa:io.s as Tre Canadian Institute, and its Journal of l'ransactions. The price of the Journal, publisued monthly, is fifteen shillings per annum. Country members' subscription is only one pound per anuum, includinge copy of the Journal.

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JOHN IRELAND.
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EDITED by G. BCCKLAND, Secretary of the Buard of Agriculture, to whom all conmunica tions are to be addressed, is published on the First of each month by the Proprietor, Willam McDougall at inis Utice, corner of Yonge and Adelaide Streets, Toronto, to whom all lusiness letters should be directed TERMS.
Single Copiss-One Dollar per annum.
Cuces, or Nembers of Agricultural Societies ordering 25 copies or upwards-Half a Dollar each Copy.
Subscriptions always in advance, and none taken but from the commencement of cach ycar. The vola for 1849-50-'51, at 5s. each, bound.
N. B.-No advertisements inserted except those having an especial reference to agriculture. Mat. ters, however, that possess a general interest to agriculturists, will receive an Editorial Notice upon prers onal or written application.


[^0]:    - The term housekeeper, in this book, is used in its American significance, the same as "Alistress of the amily;" or "Lady of the house."

[^1]:    $\dagger$ I have followed chiefly the system of Dr. Andrew Combe on "Diet and Heallu," corroborated by the authority of Baron Lievig mas "I Funiliar Letlets" and "Aniunal Chemistry:"

[^2]:    - "The intelligent and experienced mother or nurse chousus for the child," says Liebig, "wilh attention to the laws of nature; she gives him chiefly milk aud fatinaceous foci, always adding fruits io the latter; she prefers the Hesh of adult animals, which are rich in bone catilh, to that of young animals, and always accompanies it with gaden vegerabies; she gives the chidid esprecially bon:s to guaw, and excludes from its dict veal, fish, and potatcess; to the excitable child of weak digestive powers, she

