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# CANADA



# FARMER.

A Family Journal, devoted to Agriculture, Internal Improvements, Literature, Science, and General Intelligence.

Yol. I.

TORONTO, SATURDAY, NOVEMBER 20, 1847.

No. 22.

MANURES.

(Concluded from page 157.)

MANURES COMPOSED CHIEFLY OF MOULD, These are of vegetable or animal ori-And first, of animal mould. Here we shall find, that we come, perhaps, better prepared to understand this part of our subject, than either of the precedstated respecting the two classes of food, and the classes of substances formed from that food by animals. A certain portion horns, wool, nail claws, thews and snews. animal substances undergo the process of self dead and inactive, into a quick and Now, when a body dies and decays, the decay when left to their own action very fertilizing manure. mould which its forms will make rich slowly. Wool, hair, flocks, horn-shavings, If then, reader, you pause here a momanure, or poor manure, just in propot- &c., or even leather chips and curriers'- ment upon this fact, and then cast your tion as it contains more or less of the shavings, bear long exposure, and seem view backward over the principles we substances formed out of that portion of quite indestructible. They yet are nich have endeavoured to impress on your food which furnishes flesh and blood, in all the true virtue of manure. They memory, you will perceive that there is The fat, therefore, in animal mould, plays want something to bring this out, to set not, among all the classes and kinds of a very inferior part to that acted by the them a working, to bring on fermentation. manure which we have shown you, one flesh and blood. In a word, as I wish to Well, on this head we may lay down two which may not be added, or, as is the dismiss the fatty matters from our present rules: the first is, that if buried among a phrase, composed with peat, meadow-consideration, I may do thus, reader, by heap of fermenting matter, that community mud, swamp-muck, pond-mud, or by stating to you, all that you need know, cates a similar change to these dry, animal, whatever other name these great store-that in decay, fat forms chiefly carbonic substances. This is slow work. The houses of vegetable matter are called. If, therefore, you call to mind what second rule is, that if these dry matters. These are the true sources of abundant acid. If, therefore, you call to mind what second rule is, that if these dry matters. acid. If, therefore, you call to mind what second rule is, that if these dry matters. These are the true sources of abundant we have said about the action of that, are buried in the soil among the roots of manure, to all whose stock of cattle, &c., you will see how fat acts in manure. But growing plants, then these act more is too small to give manure enough for the flesh and blood, and the substances powerfully than fermentation, and the the farmer's use. It is the farmer's busiformed from it, give precisely the same dry substances are converted to manure ness to make a choice, if he has any but with a speed which may be called quick. Hobson's, of what substance, or mixture that is, water, mould, and salts. The great difference between the decay of practical lesson to be drawn from these shown him how small a portion of animal differences of action between the fleshy matter, one to ten, of pare mould, will animal and vegetable matters, is thus, that differences of action between the fleshy matter, one to ten, of pure mould, will as the animal bodies are far richer in the substance, which forms ammonia, so they when you want a quick and short action a cord of this swamp muck, we shall find afford a richer source of manure. The of manure, to use the fleshy and fluid it contains in round numbers, about one afford a richer source of manuic. The of manure, to use the fleshy and fluid it contains in round numbers, about one animal body contains that element, in parts. Where you want a more slow and thousand pounds of real dry vec table quantity enough, not only to fill the pores of it own mould, but also enough to empregnate a large quantity of mould from other sources. The vegetable body, on the contrary contains sourcell and barder parts. If now we turn to the well mixed up with a cord of fresh dug other contrary contains sourcell and barder parts. the contrary, contains scarcely enough the contrary, contains scarcely enough ammonia to fill its own mould. Vegetables differ in the quantities of the elements of food, which can furnish flesh and blood, and hence those vegetables are best for manure, which furnish most ammonia. We have already remarked on the difference, in this respect, between straws, grasses, and clover. But without going further into this comparison, which can have no other practical beautiff, the property of the superscalable mould is to derive the quickening salts for his mould. That thing is volatile alkali, carcass of animals that the farmer expects of food, which can furnish most ammonia. The great mass of vegetable mould is to derive the quickening salts for his mould. That thing is volatile alkali. There is power only to the butchers, (what fat not enough of the flesh and blood forming land they all have!) or to the dwellers element in vegetable matter, or to convert barrel of alewives, it is said, fertilizes a father of the practical beautiff. The great mass of vegetable mould is to derive the quickening salts for his mould. That thing is volatile alkali. There is power only to the butchers, (what fat not enough of the flesh and blood forming land they all have!) or to the dwellers element in vegetable matter, or to convert barrel of alewives, it is said, fertilizes a father of the properties of the carcast of animals that the farmer expects of the derive the quickening salts for his always impregnated but always slightly muck. This can be the source of that mount is to derive the quickening salts for his always impregnated by the properties of further into this comparison, which can them, after decay, into 11ch manure, wagon-load of loam. The carcass of a have no other practical bearing, than to Now here again not science, but practical horse converts and fertilizes five or six show you the immense difference in value, in animal and vegetable bodies, in forming manure, we may here resolve the subject, into one great principle. The substance which forms flesh and blood, alone forms ammonia during their decay, sentative, ALKALINE SALTS, must be added has only come in since the practice, and yet been tried. We have in this all that and the mould thence arising, is rich or poor manure, just in proportion as it is not the mould alone which plants want. But the merit of explaining this action, contains the substance, fit to form flesh and blood. Starting from this principle, we find that animal substances, as flesh, fish, fowl, the body generally, including its various forms of covering, hair, wool, tons of that, yet our fields are barren. Starting from the principle of action of animal these faster than the mould. We have seen all along how nature producted one step further. The explanation of the principle of action of animal these faster than the mould. We have matters, animal manures of all kinds, its various forms of covering, hair, wool, tons of that, yet our fields are barren. Whether solid or liquid, on muck or pearly forthers. feathers, nails, hoofs, hours, claws, &c., They want, as has been explained, salts, has led chemistry to propose, where these afford, in the process of decay, about ten And now, reader, having been brought cheap and common forms of quickening the ways by which you may convert your times more ammonia, than the straws and by this course of reasoning to what the powers are not to be had, to mix ashes, peat bogs and swamps into manure, when

other division of mould, that from vegeta-much, will make a cord of manure, con-bles, we find it lacking in the very thing, taining the elements, and their amount

decay is rapidly hastened. All the signs vegetable mould, in a greater or less de-fout in defence of such book-farming, in of putrefaction, therefore, rapidly take gree of decay. If you dig this up, and tones and terms which bespeak your faplace. The quantity of mould being expose it to the air, that itself sets it to small, nothing holds the volatile parts, work, decay is hastened, volatile matters they escape and are lost. Now common escape, yea, ammonia, the master spirit sense and practical foresight have supped, among manures, is secretly forming and the offspong of science, has been carried in here, from time immemorial, and taught at work, warming and sweetening the out succe sfully by practical men in our mankind the necessity and utility of pre- cold and sour muck. Without further own country, and has made its way venture the waste of the volatile and most preparation, practice confirms what theory abroad. Though this is not the place to of our subject, than either of the preceding classes. We have explained principles which enable us to understand why ples which enable us to understand why produce, by theory, identical matters. The only difference consists in the quantity of these matters. Let me here, teader, every pound of animal carcass can important preparation, practice continus wnattheory abroad. Inough this is not the place to give you be details of their results, you have explained principles which early approached by the produce, by theory, identical matters, ing virtue or strength, and become uch charged with all the salts which a plant they of these matters. Let me here, teader, every pound of animal carcass can important preparation, practice contribution, prectice contribution, practice contribution, prectice contribution, practice contribution, prectice contribution, practice contribution, practice contribution, prectice contribution, practice contribution, prectice contribution, practice contribution, prectice contribution, prectice contribution, practice contribution, prectice contribution, prectice contribution, prectice contribution, produce, but the fact, that alkali and way rely upon the fact, that alkali and swamp-muck do form a manure, cord for charged with all the salts which a plant way and relatively appearance to the fact, that alkali and way rely upon the fact, that way and swamp-muck do form a manure, cord for cord, in all soils, equal to stable dung.

The only difference consists in the quantity of these matters. But expectable mould; wants. But expectable mould i or, taking our arable soils as they usually its strength, has also reversed the pracoccur, one pound of flesh, fish, blood, tice, and taught the utility of adding to wool, horn, &c., can fertilize three hun-vegetable mould quickening salts; that of that food contains none of that principle dred pounds of common loam. You will is, either the volatile alkali, by composing which forms ammonia. This portion of see, therefore, reader, how little you have the mould with stable manure, or alkali food makes fat. Another portion of feod now to learn of the necessity of saving in the shape of ashes, or potash, or soda contains the substance which forms ameverything in the shape of animal matters, ash, or lime, or a mixture of these. In
monia. This part of the food forms flesh
and converting them to manure, by turnfact, whaever substance can by putrefacand blood, and the other parts of the ing them into your compost heap. It is tion give off volatile alkali, will and must, body, skin, hair, feathers, bristles, wool, to be remarked, that the dry forms of and does convert vegetable mould, of it-

ants or animals, animal matter, or that which is its repre-tice. The explanation of the principle decidedly the be

vourab consideration for the attempt which vience is making to lend you, reader, a helping hand. This proposal, sure, it might have been said at once, and so have done with it, but I hoped, reader, and I am sure I have not been disappointed, that you liked to dive a little into the reason of things, and felt that you had farmed too long by the rule of thump, to be satisfied that it was the road either to improvement or profit. And so among your first attempts at improving your worn-out lands, always supposing you have not a barn-cellar, hogs, and swampmuck, so aptly called by one of our own self-made practical men, the "farmer's locomotive," I presume you may like to know the proportions in which you may mix swamp-muck and alkali. You can harldly go wrong here by using too much, the great danger is, you will use too little alkali. But calculating on the proportion of mould in fresh dug swamp-muck, or peat, it may be stated as a rule, grounded on the quantity of quickening power in a cord of stable manure, that every cord of swamp-muck requires eight bushels of common ashes, or thirty pounds of common petash, or 20 pounds of white or soda ash, to convert it into manure equal, cord for cord, to that from your stable. Dig up your peat in the fall, let it lay over winter to fall to powder, calculate your quantity when fresh dug, and allow nothing for shrinking in the spring; when your alkali is to be well mixed in with the mould, and, after shovelling for a few weeks, use it as you would stable manure.

These quantities of ashes and alkali are the lowest which may be advised. Three or four times this amount may be used with advantage, but both the quantity of alkali and the number of loads per acre, must and will be determined by each for himself. It is a question of ways and means, rather than of practice. But supposing the smallest quantity of ashes or of alkali to be used which we have advised, then at least five cords of compost should be used per acre. This may be applied to any soil, light or heavy. But there is another form of this swampmuck and alkali, which should be used only on light, loamy, sandy soils, to produce its greatest benefit, though even on heavy soils, if not very wet, it may be used with great advantage. This is a compost of one cord of spent ashes to three cords of swamp-muck. This is mixture which has mixture of various salts and mould which plants want, and both by the action of the mould and that of the air, the alkali of the spent ashes, which no leaching would extract, is soon let loose, and produces all the effects of so much clear potash or

grasses usually entering into the compast mould wants, consider what tons and tons or potash, or soda ash with swamp-muck. It is given off in such quantity that a given of in such quantity that the powers are not to ne mad, to mix asnes, peat bogs and swamps into mandre, when powers are not to ne mad, to mix asnes, peat bogs and swamps into mandre, when powers are not to ne mad, to mix asnes, peat bogs and swamps into mandre, when you have neither cattle nor hogs. I have not thought it worth while to go into this such quantity that a depth as they lie, are truly of chemistry to farming, which speaks might be used. I have given you the

tural Chemistry. This Essay is only its selves .- ! Clard Chaon. first part. If it meets your acceptance, I trust it may encourage its author to draw up its second part on soils, and its J. W., Penzal. Nov. 12, and St. Thomas, third on the effect of crops on soil, and their value as food for animals.

### From the Farmer's Gazette. BOILED FLAXSEED vs LINSEED MEAL.

In answer to a correspondent on this object, we have been favoured with the ollowing paper, on "Linseed, Linseed Cake, and Linsced Meal, for fattening cattle, and rearing calves," by Messis. McAdam & Co., general millers, Donegal Street, Belfast, who have, for some years, seen it practised with the best

"Almost every person in the habit of fattening cattle for the butcher, is acquainted with the fattening qualities of linseed cake, but rearing calves with linseed meal has only been introduced in this neighbourhood, within the last three or four years; it is now quite estabhshed, and a great saving is the result.

" Half a pound of this meal is sufficient for a calf daily, and this costs from one half-penny to three farthings, while a quantity of milk, containing the same proportion of nutriment, would cost eight Lence to ten pence per day; a saving would thus be effected of at least six pence per day on each calf, which is 3s 6d per week for one calf, and £3 10 per week for 20 calves; and this for three or four months amounts to a sum worth saving.

" The liuseed meal is the cake ground; the best way of using it is to steep at the rate of a quarter of a pound for each feed, in cold water, for 20 to 21 hours; then to dilute with warm water to the temperature of new milk, making a gruel about equal in bulk to the milk usually given-if any milk be added, a pint each feed is quite enough.

PLANTING EVERGREENS.—After all that has been said about spring planting of evergreens, or even mid-winter, I am persuaded that no part of the year can continue their patronage (and we hope they equal autumn-say from the middle of October until the end of November. I have moved hundreds of large evergreens January. When there are several in one at all periods within the last twenty years, and I have invariably realized the greatest amount of success by autumn planting. Much, however, depends on the chatacter of the soil, as well as the mode in which the operation is conducted. Some per- ada Farmer, Toronto," will be sure to reacul sons advocate "puddle planting;" but on us by Posts, what principles I have never discovered. Why not "puddle potting!" Certainly it is better to puddle a large specimen than to totally neglect it in regard to them that it is necessary they should hestig must come out of the farmer's pecket in flies. A canvass cover for each, enturated

most common, and those well known and moisture. My practice is this: To open themselves (if they ever intend to) and for stead of going into it. We call them interat hand. All you want, then, to apply a hole much larger than the ball of earth these principles of forming composts, is or volume of roots about to be introduced, to give them that little attention which taking care not to make the hole any will enable you to understand them. And deeper in general than the surface-soil the rest must be left to your practical extends; then to saturate the sobsoil with common senso, without some share of water, and next to pulverize the soil which, farming, like everything else, thoroughly, in ended for filling in round would be vanity and vexation of spirit. the roots. After this is feompieted, I in I would here, reader, take my leave of availably rake together a body of treeyou, and in the hope that we may again leaves (if at hand,) weeds sticks, &c., and meet to have another talk. There are throw three or four inches cometines a only after we have made ourselves beneath the tree. The tree being care samewhat acquainted with the chemistry of soil. Then, having explained dry, if possible, during the operation—is belonging to our subject. Crops exhaust thoroughly stake the tree to prevent and, but fatten animals. Now this last wind waving. When this is completed properly belongs to that part of our sub- a timek manning of half rotten manare or port relating to the changes occurring in leaves with finish the process. Such vezetables, and their exhaustian of the trees should have one thorough soaking soil. It will be seen, therefore, that the of water in the early part of April; after-whole covers the ground called Agricul-wards it ey may be safely left to them-

### TO CORRESPONDENTS.

- Nov. 13-ree'd.
- E. W. B. Comland. We have an Agent appointed for your District, but we hope god well are gotte influence in our facor .-The papers have been sent.
- P. N. T., Beadgeport, ree'd. Read our notice to Agents.
- B. W., Jan. do. We find your name prop crly entered in our mail book. The papers were sent in the purcel directed " Waterloo P. O." We will send again.
- D. C., London. We have no particular information be joind what J. W. has given you. Papers are sent.
- I. S. Burford, ree'd. Your request complied
- W. A. S., Norral. Are you forgetting to appoint Local Agents?

### CANADA FARMER.

### November 20, 1847.

### OUR SECOND VOLUME.

LT The reader will find a Prospectus of our Second Volume on the last page. The first No. will be issued early in January, and it is important that those who intend to take Vol. 2 should send in their subscriptions during next month, as we shall not otherwise be able to ascertain how large an edition will be required. It is far preferable that subscribers should commence with the first No of the vol. as it will often happen that subjects are continued in successive numbers, and an Index being furnished at the end of the year, it will be found of great value to have all the Nos. complete, so that they may be stitched or bound, and preserved for future reference. As we cannot afford to print a very large edition, trusting merely to the chance of their being wanted, the only way to be sure of the earlier Nos. is to send in the one and subscription at once

Subscribers to the 1st vol. who intend to all do) wal please enclose the dottar with their address, in a letter to us, before the 1st neighbourhood it will save postage and be more convenient to send the order for all at the one time. Letters containing money, marked, and addressed to the " Editors Can-

ward us as many names as possible before lopers because they are not necessary to carthe first of January next. The reason of our making this request is a very plain one. If somer; they buy up the fresh pork and by we should strike off one or two thousand adding that labour to it which the producer more than we can get orders for, we would be should have performed himself, fit it for the . £100 or so out of pocket for which we should | market. There is one cardinal principle which have waste paper. If we should print a smaller edition than will meet the demand in almost every case, viz. that of bringing then we shall have subscribers for the next six months sending, as at present, very urare a great many other points relating foot, in the battom of the hole, to set the gent requests for the "back numbers," and to manure, which can be understood bill or roots on, putting little or no sail we shall not be able to supply them—we press we shall not be able to supply them-we press from the imperfect, careless, hoteli-poten this matter upon the attention of our agents the more because many of them, although that, before the full action of manure placed on the leaves, and the process of appointed one and two months since have not can be understood, we must proceed filling up commences. I invariably mix yet sent us a single subscriber! Either they a step further and consider what changes there is a step further and consider what changes there is a step further and consider what changes the step further than the step further than the step further the step further the step further the step further than the step further a step further, and consider what changes decayed vegetable matter with the com- are waiting to get 8 or 10 names before writake place in growing crops, and mon soil; this is sometimes obtained on ting, or they have not obtained any, or they the effect of these growing crops upon the spot by taking or paring the ground have not field. As soon as three names are soil and manure. The quantity and contiguous. The soil being in a mellow obtained they should be sent in, but we don't hand of salts they extract, and how soil state, slightly trod as the falling proceeds, thank it is necessary to send a letter containing sexhausted. This would lead to the and when filled level with the fall of ta-consideration of the quantity and kind ther above it, the whole receives a thoraund to be applied to different soils, and the value of different manners. But there is one other very important thing ness, and a nost important affair, is to per centure allowed to ngents, and the cost of the cost of the quantity and kind there is one other very important thing ness, and a nost important affair, is to per centure allowed to ngents, and the cost of per centuge allowed to agents, and the cost of paper and printing, what is left will be a man y quantity.

Agents may think that we ought to send the Farmer to them regularly five of charge, but with 200 local agents, or rather persons who have promised to act as such, it would be too heavy an expense. We can afford to send them one now and then, but if they want the paper regularly they must subscribe.

Those persons (if any) who from any cause are unwilling to act as agents, after promising to do so, will oblige us by returning this No. with their name written thereon.

Those Editors who have favourably noticed the Famer, will greatly oblige us by inserting for a few times the Prospectus of our 2nd volume, which will be found on the last page of this No. In any way that we can, consistently with our position, reciprocate such a favour, we shall be happy to do so.

### MANURES.

In this No. the Prize Essay of Dr. S. L. Dana, s completed. As to the value of the work we may remark, that it received the premium offered by the Massachusetts Society of Agriculture. It brings down the information upon this much vexed subject to 1844, is written in a remarkably plain style, by one of the best practical Chemists in the country ', as the committee of the said society assert, and a man every way qualified for the task. This work, with the "Agricultural Chemistry" of Professor Johnston, both of which we have published entire, cost, at the book-seller's about half the price of our paper. The reader who has had the good sense to preserve his copy of the Farmer, will thus have in his possession tico books of mestimable value as regards their contents, and of half the money price of this

### CURING PORK.

As this is the season when the slaughter of that useful animal the hog, is very generally engaged in, we submit to our readers a few reflections on the subject of curing hams and pork. There is no question but that there is great room for improvement in this operation as it is commonly performed among us. If a proper knowledge of the subject were more generally diffused and greater at tention given to it by our farmers, they would realize far more profit than they do at present. We should not have our merchants and exporters sending to Ireland (as we have known them do) and other places where the business of salting and macking is carried on upon a large scale, for men who understand the right mode of putting it up. before they attempt to send our pork to a foreign market. The consequence of our inattention to any thing like system, is just this: the general character of Canadian Pork is low, therefore it brings but a low price when brought in competition with that of other countries. Another result is that a To Augusts.—We send this No. to all our class of interioper traders spring up, whose hams till wanted. If removed, they local agents for the purpose of reminding profits, and they are often very considerable, should be kept cool, dry, and free from

ry the article from the producer to the conis constantly violated in this case, and indeed the producer and consumer as near together as possible by lessening the number of addividuals between them. On the contrary, manner in which our Beef, Pork, Butter, &c. &c. is prepared for exportation, the number of bands through which it must pass before reaching its destination, the monopolies on the St. Lawrence, and the consequent high rates of freight, and the low price which it brings at last, our Catadian Farmers are kept in the back ground, and till these obstacles are removed must always remain there.

We believe these are the great difficulties in the way of agricultural prosperity in Canada, and we must apply ourselves to get rid of them. The first and most important object is to produce something that will fetch a good price. We must get a better name for our exports in the English markets. To establish a good reputation we must have system and uniformity in the preparation of our articles, and this should be the first object to attract the attention of our Agricultural Societies. It is far more important that our Butter, for instance, should be well made and well packed in firkins or casks of a proper size and made of proper materials, than that a few men should be able to plough a farrow a little straighter and smoother than most ploughmen do. We make plenty of noise, and talk long enough about little things-subordinate questions, while the really great and vital interests are neglected. We shall return to this subject.

The following method of curing pork and hams, we find in that valuable work. Allen's American Agriculture :-

After dressing, the carcass should be allowed to hang till perfectly drained and cool, when it may be cut up and salted. The usual way is to pack the pork in clean salt, adding brine to the barrel when filled. But it may be dry salted, by rubbing it in thoroughly on every side of each piece, with a strong leather rubber, firmly secured to the palm of the right hand. The pieces are then thrown into heaps and sprinkled with salt, and occasionally turned till cured; or it may at once be packed in dry casks, which are occasionally rolled to bring the salt into contact with every part. Hams and shoulders may be cured in the same manner, either dry or in pickle, but with differently arranged materials. The following is a good pickle for 200 pounds. Take 11 lbs of Turk Island salt; & lb. of salt petre · 2 quarts of molasses, or four lbs. brown sugar, with water enough to dissolve them. Bring the liquor to the scalding point, and skim off all the impurities which rise to the top. cold, pour it upon the ham, which should be perfectly cool but not frozen, and closely packed; and if not sufficient to cover it, add enough pure water for this purpose. Some extensive packers in Cincinnatti and elsewhere, who send hams to market, add pepper, allspice. cinnamon, nutmegs or mace and cloves. The hains may remain six to eight weeks in this pickle, then hung no in the smole house, with the small end down smoked from 10 to 20 days, seconding to the quantity of smoke. The fire should not be near enough to heat the sams. In Holland and Westphalia, the fire is made in the cellar, and the smoke carried by ? flue into a cool chamber. This is undoubtedly the best method of smoking. The hams should at all times be dry and cool, or their flavour will suffer. Green sugar-maple chips, are the best for smoke; next to them are bickory, sweet birch, corn cobs, white ash, or beech. The smoke house is the best place to keep

thes. When not to be kept long, they and consequently of light weight, but also are two side pieces about 41 feet long, and 8 may be packed in dry salt, or even in sweet brine without injury. A common method is to pack in dry oats, baked without many be ground too high wheels. They are connected together by a saw-dust, &c.

### WHEAT AND PLOUR FOR EXPOR-TATION.

We transfer with pleasure to our columns from the Handton G eren, the following remarks by the President of the Hamilton Board of Trade, J. T. Brondgrest, Esquire. They are in keeping with the observations we have made above on the subject of packing Pork, &c., and coming from one, who we believe, is adouted to be well acquainted with the practical qustions of which he speaks, deserve the secons attention of the farming public. We understand that an enormous this year from the hurred and imperfect manner in which it was put up and shipped. Indeed, this is regarded as one item, and not a small one, in the recent futures of during a quality of flour much esteemed Corn merchants. The drying machine by Bakers-docs not keep well enough lately invented at New York, and noticed un- to arrive for shipping purposes. This der the sejentile head of our last No. is destinight be obviated by kiln-drying, but then tized, we are led to blive. To affect a great the colour would be dark. But if & kiln improvement in the preparation of Brend Stuffs for transatlantic consumption. Mr. Brondgeest, says :-

Formerly, wheat received injury on the voyage to the shipping ports, partly from condition, and more so from negligence; it now generally arrives sound, and on the completion of the cauals will he likely always to do so. Still enough fact be the same as the finest of the Euinjury is received aiterwards to cause it ropean flour. With good management, to spoil on the voyage to Britain; add to the kiln-dried Spring wheat might even which the loss of quantity, owing to its amount to one half. being shipped in bulk.

To avoid this it has been suggested that after being cleaned, wheat should be put up in barrels hading either a quarter or eight bushels, or half that quantity. Such barrels need not have much bilge, neither require to be tight, and could be made of sawed stuff of any cheap wood that might be at hand.

The advantages would be-facility of loading and unloading; readiness of ascertaining quantity; safety from damage unless actually wet; and security from the great loss now sustain d from the spilling of the gram; and the saving from not having to bice or buy bags.

It has also been suggested that from the ease of loading, and from there being no necessity for himg, that after the thing was well understood, both in-land and sea-going vessels would prefer barrels of wheat as freight to taking the same in

The various items of saving, both in money and time, would amply compensate for the cost of the barrels, especially as the latter, when done with, would always be worth the cost.

Where danger of heating occurs from damp, the kiln must be used for at least a fifth. Spring wheat always requires to be thus prepared for shipment.

In raising wheat, farmers should be careful to keep different varieties distinct, red should never be mixed with white, and as much as possible even different varieties kept apart. Any amount of labour and care spent in extirpating or preventing weeds, or even the mixture of other grain, is amply recompensed by a better price.

cing an article that will give satisfaction, would be found desirable. Whilst wheat at 56s. per quatter, or 7s. per bushelcalculating flour 5 bushels per barrel, gave 35s. as the price, the flour itself was worth only 24s., being nearly 50 per cent in favour of shipping wheat, which would pay for all the pains that could be bestowed upon the production and the putting up, and upon a triffing further cost in

and round; it were better that a portion cross-bar at each end mortised into them, and be re-ground even, than to grind low In between the bars there are rungs about 3 France some of the finest qualities of flour inches upart, something like a hay rack, are produced by grinding very high and passing through each of the side pieces, and then re-grinding all that does not pass the tongue and this mon this rack that the the bolt, then adding the two together. market, st.fl, by the bolting the second see how it will work. There is a stone on model the second see how it will work. There is a stone on model to be seen adding to the first, it is the top of the second seen and the second seen and the second seen and the second seen as the second second seen as the second second seen as the second second second seen as the second seco This would hardly please in the British might be procured from a given parcel to the stone, take off your horses, have up of wheat, and that too more agreeable the tongue till the bind part touches the to the taste of the British consumet, than if made according to the present method.

Whilst on this subject it may be remarked that it is highly injurious to the quantity of wheat and flour has been lost quality of flour to be carried as a deck load; it should in order to bring its full value, be altogether under batches.

Spring wheat often, to be produced much under its real value—although prodried Spring wheat were mixed with 3 white, Fall wheat in its natural state, the flour made therefrom, would keep far better than even the choicest qualities of ordinary flour-the dryness of the kiludried wheat absorbing all the moisture from the rest. There would be the strength of the Spring wheat, and the colour of the Fail wheat, and would in

To the Editors of the Canada Farmer.

Nonval. Nov. 15, 1817.

DEAR Sins,-I wrote you last from Hamilton, I left that city via Dundas and Nelson for Nasagaweya. I stopped on the way at Mr. late Warden of the Gore Dis-Wetenhall's, trict, and I believe also the most successful breeder of imported Stock in the District. You will recollect, an enormous call nine months old, by the side of a large white cow at the late Provincial Exhibition; Mr. Wetenhall sold that calf since for £38; 38 ordinary calves would hardly bring that amount. He has also sold two other head of cuttle lately, and the three together brought him between five and six bundred dollars. This is breeding to some purpose.

Mr. Wmgfield, a spirited young English gentleman, imported, some sixteen years ago at great expense, several specimens of the best English breeds, and settled in the Township, of Pushiich in the neighbourhood of Guelph, but at that time stock of this descripion was not as well appreciated as now, and the enterprise was anything but a profitable one. The cattle were sold by Mr. Wingfield who gave up breeding, and is now, I under stand, doing husmess as a merchant some where in the Western part of the Province. Mr. Wetenhall was one of the purchasers of his stock, and it was in this way that he obtained the original of his celebrated herd. I understand that the rest of the stock wa purchased by some gentleman in the Wellington District, and it is by this means that the stock of the township, in the neighbourhood of Guelph, has been so much improved, and, thus Mr. Wingfield has conferred an important public benefit at the expense, as it often happens, of ruinous private loss.

So far as I have travelled through it, the township of Nasagaweya is exceedingly stony, although there are some good farms that are very well improved, and the owners enjoying Compared to flour, wheat generally the fruits of them, pursuing industry in comsells so much higher in the British markets that every care bestowed in produfarms of others almost covered with stenes and pine stumps, I have thought that in more ways than one their lot was a hard one. But there is one encouragement, that when they can get at the soil it is good, and yields a rich

> Many of the farmers are clearing their fields of stone, and for the advantage of those and all others who have many stones to re-move from their fields I shall here describe a stone truck invented and nude by Mr. G. P. Ross, an extensive and ingenious farmer in

with lime, which may be put on with a of the wood from which the barrels may brush is a perfect protection against be made, not only causes the loss of flour the tongue and it is upon this rack that the stones are placed.

> grinding before adding to the first, it is the top of the ground some 20 hundred probable a larger quantity than usual weight; bring up the truck; now back it up ground; now roll the cone into the rack with two hand-spikes, take hold of the long end of the tongue and pull it down, you have such lever power two men can easily do it. Now hitch to your horses and away. When you want to unload it, take off your horses tip up the tongue and "away she goes." How could it be done easier than that?

> > How many men would it take to put that stone on a w ggon in the same time, or how many men, or how many horses would it take to hawl it on a common stone-hoat? When you answer these questions you can tell how much labour has been saved by using Mr. Ross' Truck.

Don't you think now that every farmer in Canada who has a stony farm ought to take the Canada Parmer for the sake of the above description alone? You say you think he ought, very well I am glad to hear you say so, and I hope you will do it yourself, and advise every one else to act upon that think so. But I'll tell you something more about Mr. Ross. He has adopted a very simple and efficient method of securing a load of hay from falling or sliding off; he use two stakes about the size of a small hand-spike some 54 feet long, well rounded and pointed at the ends; when the load is on, he pushes them down, one at each end of the load, from the top to the bottom boards of the rack; when this is done my ordinary load can be drawn over any ordinary road to any required dis-If you had only known of this you would not have had the trouble of repitching that lest tumbled load of hav about which you raged and foamed so much, would you ! and the poor fellow that upset it would not have tot such a scolding.

Before I leave Mr. Ross' farm I may mention something more, although not so important as eather of the above, yet it will be in-teresting to those who are fond of nice and accurate arrangements. He has lately planted an orchard: the rows run perpendicularly to his lane fence, which is of boards, and each row of trees is of a distinct variety, and the name of each variety is painted upon the fence at the end of the row, so that he can always know the name of all the kinds of fruit that his trees produce, and can always teil with certainty where each is to be found. But to return to Nasagaweya it is greatly

broken by the mountain chain, that coming out of Nelson passes through it into the upper

end of Esquesing.
The "Windfall" has also passed through this township, although I have never seen any nonce of this forest phenomenon. It never theless has been a very remarkable occur rene. Sometime about the millle of the last century a current of wand started some where in the west, and running almost due east, made a road through the forest from i to I a mile wide tumbling every tree in its course. When it began I do not know, but I have frequently crossed its path through Nasagaweya, the southern corner of Esques ing, the upper part of Trainigar and through the township of Toronto into the lake. I have been told that it passed down the lake (no doubt making some strange railing of its waters) until it came to the opposite shore in the State of New York, and pushed on, no one here knows where; but if it kept the same course it must have crossed over the States of Vermont and New Hampshire and through Maine into the Atlantic Ocean.
Its track is most unmistakably indicated

through the township I have incationed, by the gap in the old forest, that has since been filled up by a succeeding growth of timber smaller, closed to other, and in many places of a different variety from the former race, so suddenly and unceremoniously tumbled.

While I was in Nasagaweya I saw a farmer fixing his cabbage for the winter, his method is both simple and secure. He dag a trench some two feet wide, about 15 inches deep and as long as required. He then placed crotched sticks, some S feet apart (sufficiently packing in barrels.

Flour requires but few remarks. The faults formerly complained of—namely, light weight and unseasoned barrels—

The greenness that few remarks. The greenness that few remarks.

The same axis trace and inguisitation in the control of the purpose) in the centre of the purpose in the purpose in the centre of the purpose in the purpose in the centre of the purpose in the centre of the purpose in the purpose in the centre of the purpose in the purpose in

ench side of the cabbage to serve as ratters then covered the whole with straw, and put on the earth and sods that were taken out of the trench, He told me that the neighbour from whom he took the plan had tried it and it answered the purpose most effectually.

1 am dear Sirs, Yours respectfully, W. A. STEPHENS.

P.S .- The warm weather of this month has made a great improvement in the late sown wheat, and has removed a good deal of the apprehension that was felt in reference to that all important crop.

A VALUABLE RECEIPT IN A PEW WORDS. Every dairy should have a vessel of limewater sitting in it, say a half a gallon of lime to 10 or 12 of water, simply to rinse every thing in it. The vessel can be filled as soon as you please. It will be sure to remove all acidity or bad odour. Let dairy women remember this .- [Ex.

### European Agricultural News.

THE Crors .- There seems to be no doubt as to the general abundance of the harvest of the United Kingdom. Barley is said to be the greatest crop ever grown. Wheat is better than last year, but the quality not so good. Potato disease not so destructive as last year, and a much smaller breadth of land planted. Notwithstanding the good harvest as a whole, it is the general opinion that the increased and increasing consumption will require large importations for the next 12 months from abroad.

A late number of the Gardener's and Farmer's Journal states that the barvest in the East and South of France proved excellent. There was an abundance every where.

IMPROVING THE CURRANT.-There is nothing which grows out of the earth useful to man, but seems susceptible of improvement under his hand. The perfection to which English Gardeners have carried their art is antonishing. A Mr. Tombuson in the Midland Florist, after describing several varieties of currants, which he had improved, gives the following as his method of pro-

"I have selected some of the largest berries, on both Gohath and May's Victoria, the seeds of which I intend to sow; and should these prove large I will again sow from the largest. By this means, in a series of years, I hope to arrive at the height of any ambition, namely, to produce cur-rants as large as small marbles. Now I am con-fident there is nothing Utopian in this; and I am sure that if a few persevering individuals were to devote their attention to the improvement of the currant, it would be attained in less than ten

AGRICULTURAL INSTRUCTIONS.-We refer with pleasure to the proceedings of the Royal Agricul-tural society on Thursday, and to the universal support which the Lord Lieutenant's proposition respecting practical instructions for the Farming classes is every where receiving unless in certain Trash Journals, which of course, oppose that as well as every other useful and practical project. Sir Ralph Howard, ever foremost on occasions of this kind, has contributed no less than £50 to aid his Excellency in his views-Lord Fortescue £10. Mr. Richard Burke £5, and several of the local Farming societies have also declared their mention of supplying funds for the purpose.

At the Smithfield market, London, on the 7th inst., twenty disease sheep were seized, and their owner brought before the magistrate, who has sauce issued an order for the seizure of all such ausound cattle which are offered for sale in the market. From several other places in England we learn that sheep and other cattle are labouring under a severe epidemic. An epizotic disease has broken out with great violence amongst the cattle in the canton of Mexieres.

Cocoa .- No sales reported, the market is quiet. Correr.-The market has been dull, and holders would willingly replize at lower prices. The decline since the 1st inst. Jamaica 4s. to 5s. per cwt., and other descriptions in proportion. The cwt., and other descriptions in proportion. The sales of the two weeks ending October 16, are 100 tes. Jamaica, 1,500 bags Costa Bice, 800 bags Laguayra, besides 60 bags. St. Domingo, which were sold at 34s. per cwt.

Daves, &c .- The transactions in Brimstone have been confined chiefly to small parcels from the ship side. Sicily Shumac has been in limited request at barely previous rates. Nothing has been reported in Argols or Tartars; both these articles are neglected.

DRYSALTERIES .- At a public sale in the course of the last week 90 chests of Gam Arabic sold at rather easter rates; 50 bales and baskets Cambia at 12s. 3d. to 12s. 6d; and 59 bags Sago.

STEAM PLOUGH. -- A French paper, Le Semaine, announces the invention of a steam plough, or rather a made of digging by means of steam, from which great results are anticipated. The inventor is a young medical man, named Baraff. The paper states that one of two horse power was in

### Civil and Social Bepartment

### THE MARKETS FOR OUR SURPLUS PRODUCTS.

The low state of our markets as compared with the American, from which the illiberal tariff of that country practically excludes our produce, is attracting public attention to the disadvantages under which we labour; and plans partaking very much of the character of nostrums, are being suggested for relieving us from our difficulties, and establishing a reciprocal tariff, based on liberal principles, between the two countries. The advantages that would accrue from a measure giving us access to a market, in which, at this moment, prices of wheat rule one-fourth higher than in our own markets, are too obvious to require one argument in the way of proof. Although the price of wheat is a quarter of a dollar a bushel higher at New York than at count to the difference in price, practically brings the two markets to a dead level; and the consequence is that the American farmer having free access to the better market enjoys a great advantage over our farmers.

It will appear evident on examination that this difference in price is not attributable to the operations of the American tariff, but to causes in a great measure extraneous, and the investigation of which must form the study of those who would arrive at a true knowledge of the nature of the evil; otherwise the application of the suppos- in the hope that those who are desirous of ed remedy will be the hap-hazard, reckless bungling of the quack. Physical causes and commercial restrictions combined have given a temporary advantage to the American over the Canadian market. The effect is observed by the least informed, but the cause, the nature of the malady, is mistaken by wellmeaning but visionary and superficial economists. The admittance, duty free, of our grain to the American market, as a temporary expedient, would be a boon. It would make us participators in the advantages of the better market so long as the temporary causes which render that market preferable continue to exist; but regarded as the means of a permanent remedy, it is a fatal delusion. We are told by some who, it is evident, do not think meanly of the value of their notions of commercial economy, to seek to ensure ourselves of high prices by obtaining access to the market of a people, who far from having any bona fide market to offer us, are boasting of their ability to produce grain in sufficient quantities to feed all Europe ! We have no objection to this taking coals to Newcastle, so long as the Newcastle people have the means of conveying them to the place of consumption at less cost than we can convey them through our own channels. But we must protest against, the fashionable assumption that they go to Newcastle to be burned. They merely go there en route to the place of consumption. So long as that is the cheapest channel it is desirable that they should go by that route. To drop this common place illustration, we will stake our reputation as economists upon the hypothesis that of the means of communication through our own territory to the sen-board and across the Atlantic become as cheap as the New York or Boston route to England, the Americans at no time when they produce a large surthe completion of our internal communication and the abolition of the Navigation Laws -which, so far as they effect Canada. has been held out to us by the Home Government as almost certain-would have the effect of equalizing the prices of freight on the two routes, is a problem the solution of which must be left to future experience. If not, the vast sums spent on our splended canals have been uselessly sounndered, and the ultimate result of the reckless expenditure, will be national bankruptcy. Prices for Agricultural produce will continue to rule higher at New York and Boston than at Montreal and that we find it incompatible with our duty to Now York and Boston than at Montreal and that we find it incompatible with our duty to population was hardly what it is at present: spector, whose directions and remarks will be Quebec, just so long as the Americans can the Agricultural public to restrain the express but the appropriations expired during the very valuable to the trade.—[Mentreal Witness

at a less cost than we can. When the period arrives that they can no longer do so, Canadians will have no incentive to seek admission to the American market, except in the event. which has no place in the chapter of probabilities, of their having generally a short harvest and we a redundant one.

We have been much puzzled at the following singular reference to this subject, put forth with an air of authority in a journal and would not be listened to for a moment. published in this city, bearing the name of No less authority than the Legislature of the Provincial Advertiser :-

At the late Provincial Agricultural Exhibition at the city of Hamilton, the following solutions were unanimously adopted :--

Resolved-That from the experience of 1835, 36, and 37, and the present Autumn, it appears that when bread stuffs are higher in escape a fit of hysterics, only because they are lurope than America they are higher in the

United States than Canada.

Resolved—That a committee consisting of the President, Vice President, and Secretary Montreal, the American duty on Canada of the Provincial Association, be appointed, public assistance with a better grace. They wheat admitted ... to the United States, nearly and nuthorised to adopt any measures they should also state whether or not they are wilmay deem expedient to obtain access to the best market, and thus secure the best prices to the Canadian grower.

the commutee have authorised the receiving air. The idasyncracy of the Secretary is of subscriptions, in aid of the above object, to be remitted to Mr. G. W. Edmandson, editor of the British American Cultivator, at Toronto, on or before the 15th December next. Subscription lists, to raise a fund to aid in bringing about the above important result, are now in progress of being extensively circulated. principal farmers, and others friendly to the cause, in each township of Western Canada. securing the best market for our agricultural products, upon the most advantageous terms, may contribute a small portion of their means for the purpose of securing that object.

So long as we have large quantities of) will evince a willingness to admit it at a low rate of duty. The only countries to which the Canadam people may with any degree of certainty calculate upon lawing as profitable ( customers for their surplus agricultural products, are Great Britain, the United States, and the West India Islands. Every person who has given the subject a consideration is prepared to admit, that if proper steps were taken to secure that object, it would be an easy matter to effect changes in the tanif EDUCATION IN LOWER CANADA. laws of the governments above mentioned, which would secure to the Canadian people the privilege of exporting their agricultural products to those countries on much more favourable terms than can be done at the pre sent period. The Association have appointed a Committee to aid in bringing about that very desirable end, and the course they will pursue in the matter will very much depend on the character of the support they receive from those to whom the benefit is particularly intended to be conferred.

The only thing that strikes one in reading the above, apart from the execrable, the worse than school-boy mutilation of the English language, is the total absence of all definiteness of purpose except the general invitation to farmers to remit money to a certain person, for an uncertain, undefined, and so far as regards the resolutions, an unauthorized object. It is not within the limits of probability that so respectable a body as the Provincial Assocution, intend to countenance such a hoax, such a monstrous fraud as a reading of the above would suggest to the scrutinizing or suspicious mind. Here are two resolutions published in a very unbusiness-like manner, ples, will be able to present us a better mar- unattested by a single name. The second ket than we shall have at home. Whether resolution forms a committee of certain mem- arithmetic, the same having been transmitted bers of the Association, who are authorized "to adopt any measures which they may time of the American revolutionary war: and deem expedient to obtain access to the best their place voluntarily supplied by the Semimarkets, and thus secure the best prices to naries. The Provincial House of Assembly the Canadam grower." Beyond this the resolutions authorize nothing. We have next 1791. the authority of a newspaper paragraph for School Bill for the whole Province, when he the statement that a certain individual, the reputed editor of that paper, is authorized to receive money for an object, the intended plan of carrying out which is left a profound limbitants were authorised to hold property mystery. At the risk of exposing ourselves for School Houses, and pecuniary encourage to the charge of captiousness, we must say

convey these products to the English market | sion of our regret that so rude a scheme, so thoughtlessly or disingenuously mystified, so studiously or carclessly left unexplained, should have been suffered to go to the public, with the sanction or apparent sanction of the Provincial Association. How do the committee intend to effect their object! Will they send a deputation to wait on Mr. Polk's Cabinet at Washington ! Such a deputation would have no authority to do any thing, the country can form a commercial treaty.

We have a serious apprehension that if the above resolutions and the accompanying paragraph should find their way to Washington, the members of the enburet there would esnot old women. The Provincial Association ling to be held responsible for every thing that appears in the newspapers owned by In conformity with the above resolutions their secretary, written with a demi-official associated with an unhappy Organ-mania. which if not timely checked, will assuredly damn the Association.

The writer in the journal from which we have quoted should not have ventured to med-They will be sent to some of the die with commercial questions till he had acquanted himself with the fact that Easland has not only "evinced a disposition to admit our grain at a low rate of duty", but that she has passed a law for admitting, duty free, the grain of every country in the world. We can ask no more liberal terms of admission to the English market. What our interests rewheat and flour to export, their value in the |quire are the repeal of the Navigation Laws; Canadian markets must be governed by the land this the English Government appears value of the article in those countries that willing to concede (so far at least as they afhave a short supply, and whose Government | feet us), and the completion of our public

> Our intercourse with the United States should be as unrestricted as possible; not because they have any market to offer us, but because restriction cannot be otherwise than mutually disadvantageous.

We have lately observed with regret that, certain portions of the Common School Law of Lower Canada are so unpalatable to a portion of the inhabitants, as to lead to open resistence to the school tax. We give the following extract from the Quebec Gazette on this subject, on account of its historical importance :-

"Some of the Montreal papers are quarrelling about education and the opposition to the School Acts.

"There cannot be a greater error than to believe that the descendants of - first colomists of Canada are averse to Education, or a more injurious imputation, to accuse them of such an aversion.

"More was done for general education in the first years of the settlement than in any other colony. The Jesuits' College at Quebec is a striking monument of an early attention to the education of the male youth of the country, and Numeries, of female education. The old inhabitants of Quebec still recollect well educated tradesmen, navigators, and others, who were educated at the Jesuits' Persons there were qualified to teach in all parts of the country, and there are parishes where every individual can read, and many can write and possess the elements of by their parents who had received education The Jesuits' schools were closed about the ention, in the first session after the Act of In 1810, a member had prepared a was east into prison in consequence of the political disputes of the times. Several School Bills were introduced after the peace of 1814; but it was not till 1629 that the inment was granted. In four or five years

wretched political contests which followed, and gave a check to elementary education. Since the Union of the Provinces, the School Acts have been constantly changing and every thing thrown into confusion by offensive and unconstutional attempts at taxation, without representation and without the control of the tax-payers, and virtually placing the management out of the hands of the inhabitunto.

# THE CHOLERA AND ITS PREVEN-TATIVE.

This scourge of the human race is again spreading over Russia, has extended to Germany, and will probably re-visit the whole Continent of Eurone, and cross the Atlantic to visit the Western World. The means of preventing it, stated in the following letter to the Landon Times, will, if really efficacious, be invaluable wherever this d readful scourge appears :

To the Emison of the Losdon Times-

Sir-The steady advance of the cholera west-ward appears to have called public attention to should explain the mode they intend to adopt a probable resuppearance in England before long, to secure their object; they may then chain fand a paragraph in one of the London papers, of Friday, leads me to beheve that the inajority of persons will depend for protection upon any preparation which is advertised as "disinfection," erroneously behaving that all disinfections have the same power over the virus which creates disease as they have over impleasant sincils. Allowme to correct this error by detailing the results of my experience during the visitation of this horse ble malady in 1832, when, as a chemist, I laid myself outfor a close examination into the cause, mode of propagation, and check for it. For this purpose I obtained information of, and visited in person all the earliest cases which showed themselves, in this city generally, and in each great establishment in particular. For some time I attended almost daily at the cholera hospitals, and experimented in every way I could think of, upon the dead and the living subjects, their contents and ejecta, the atmosphere surrounding them and their articles of clothing. The conclusions I arrived at I torward for the information of those who have not had the same opportunities.

1. That the cause of cholera is a putrid animal poison capable of being recognised by the smell by some, emanating from and surrounding the dead or fixing cholera subjects, or articles of

clothing.
2. That it is not sulpheretted hydrogen or hydrosulphuret of amonia, as it does not decompose salts of lead or zinc, and when passed through intrate of silver it only forms a red solution when exposed to light,
3. That it is only received into the living body

through the lungs, and cannot be propagated by innoculation.

4. That infection can be conveyed by articles of clothing, bedding, &c., and that washerwomen are more subject to infection than ordinary persous, from that cause.

That all persons are not equally liable to infection from equal exposure, and even the same individual becomes more sensitive under certain circumsiances.

5. That the poson is destroyed by chlorine go and a heat of 300 deg. Farenheit.

As the object of the present communication is

merely to give the public opinion a right direction. with this insidious and powerful enemy, I munist at once state that the two most popular disafectants of the day—the chloride of zinc and the nitrate of lead, known as Sir W. Burton's and Ledoyen's, will be of no avail, although they will promptly remove ordinary putrid efficia. The numerous exposures to the virus was chloring gas, and this I believe to be a perfect one if the lumigation is complete. I invariably passed thre' an atmosphere on my return home, and kept it escaping into my residence during the continu-ance of the disease in this city. I also placed large quantities of the substance necessary for the evolution of this gas in the bands of a Bristol druggist, who was kind enough to distribute 1,200 quantities of it gratuitously to applicants during 3 days with instructions for the use. & am happyto say that during that time the deaths fell from 10 to 1 per day, and I have but hitle doubt that if every hip arriving in England from an infected place, should be exposed to a perfect fungation with chlorine, we shall be preserved from the infection. If the disease should pass this cordon, by any acrident, then every house in the infected district should be simultaneously fumigated with itthree times a day; unless done in all honses at the same time, it would be useless, or nearly so; and to do it effectually, a mixture of three parts com-mon salt and one of black oxide of manganese, should be placed just made the onter or street door of the dwelling house, and a little common vitriol poured upon it. The inward current of air will convey the chlorine gas in every part of the interior, and wherever it can be smelt the effect is produced—the miam is destroyed. If articles of clothing are infected, and the colours likely to be injured by the gas, they may be heated in an oven or on a kiln, to 250 or 300 degrees, (about the heat of baking bread,) when they might be handled or used with perfect impunity.

I am, Sir. &c., WILLIAM HERAPATH. Bristol, Octobes 11.

THE BUTTER TRADE -As an evidence of the progress of the butter trade of Canada, we notice with satisfaction, that 2500 fixins have been ship-ped recently by a single vessel from this port, and understand that she had to rafuse some pas-cels for want of room. The Board of Trade have there was 44,000 children at school when the also procured the appointment of a butter Inpopulation was hardly what it is at present: spector, whose directions and semarks will be

### SONG OF THE SOIL.

BY J. H. R. BAYLEY.

I start the bulb of the beautiful flower And feed the bloom of the wild wood bower, I rear the blade of the tender herb,

And the trunk of the stalwart oak I curb; I force the sap of the mountain pine, And curb the tendrils of the vine; whe the forest and clothe the plain With the richest of fruits and the richest of grain.

The cheek of the pensant I clothe with health; And yield the stardy yeoman wealth; I give the spirit of commerce wings, And prop the tottering throne of kings-The gorgeous palace and the humble cot
Owe every atom to me they've got;
And the prince at his banquet and hind at his board
Alike must depend on the fare I afford.

Man may boast of his creaturely might His talents in peace, and powers in tight, And lord it over the heast and hard, By the charm of his touch and the spell of his

word;
But I am the soul and implity source
Whence flows the tide of his boasted force Whatever his right and whoever he be,
His pomp and dominion must come from wr.!

E am the giver of all that's good, And have been since the world has stood; Where's there wealth on ocean, or beauty on land But spring from the warmth of my fostering hand?
Or where's the object far and free.
That claims a being, but's trac'd to me?
Cherish, then cherish — sons of toil!

The wonderful might of the franful soil! And whence says the christian, dost then obtain. This powerso mighty, of which then art van I Then boasteth of that which is firm-shed to thee, By him who is lard of both land and of ser, For know thattreasures which come from the sod Are only thine own as the gift of thy God

The Evil Tendencies of Corporal Punishment, as a Means of Moral Discipline in Families and Schools, Examined and Discussed. By Lyman Cobb. Mark II. Newman, & Co., N. Y.

The little chubby-faced gentlemen who figure on tomb-stones in a pair of wings-and nothing else, have always been the envy of schoolboys, seeing they could neither sit down nor stand up for a flogging.

Mr. Cobb, it seems, would now make cherubs of the whole human race; or, at least scatter abroad the principles of a new and unflogged civilization. Mny he succeed in dethroning "the Cat" from the worse than Egyptian worship we accord to it! And yet, after all, cruelty is cruelty, whether it incerates the feeling of the shoulders or of the heart; and a tyrannical teacher can as seriously outrage the spirit of a noble child by holding him up to the scorn of his companions, as by afflicting him with the lash. "You may flog my son, sir," wrote an old-fashioned parent, "whenever he misses his lesson; for I hold you an excellent judge of how much Latin and Greek a boy of his years can carry about with him; you may flog him too for breaking your clearly expressed rules of school discipline; but I insist upon your omitting all preachment and exhortation to a boy of mine. His parents only, from knowing his disposition. are the proper persons to touch his springs of character; nor do I see how your province of teaching Arithmetic empowers you to quote The Book of Numbers at him; nor what connexion his playing out of school hours, at marbles, has with the use of the globes, with-

in doors," The schoolmaster who was formerly an impinger is now a developer; he has been abroad since the days when people wrote thus to him. That is, he has stepped out of his school house, and now hitches himself on as closely to the discipline of families as did the priest in centuries gone by. The boy now studies his lesson at home, and only recites it to his teacher; so that the teacher has a fair plea for mixing himself with his surroundings as intimately as if he were a police officer who watched a suspected party within the jail limits. Boys themselves, it is eredibly reported, are wilting up beneath from 347 mile as the extreme distance. The these visitations of the evil eye; and it is now country to which these waters are the great the reproach of modern urchindom that at highway of transport, has often been the least half the boys in a school will "tell of theme of high wrought eulogium, for the variein o spies upon their companions at the instance of the master, who would thus subsidize them to aid in maintaining the discipline which he himself ought to enforce.
What parent would not rather have a child flogged within an inch of his life than have him put to such base uses?

No. Mr. Cobb: in a truly spiritual view of this matter, flogging, per se, as Captam Tyler would tell you, is nothing to flagging as a mark of degradation, and the public opinion of each senarate school-room, decides among the boys of that school what is the strongest mark of degradation. As many fine spirits have had the edge taken from them by having a fool's-cap allotted as their cust mary punichment-as many high-minded hoys have

being beguiled into treachery to their companions by some jesuitical or juggling teacher, as the use of the "cat" has ever "hardened." Yet we fully admit that, once indoctrinate r a boy with the idea that a blow from the hands of his preceptor is an equal indiguity to a blow given him by another boy, and there should be an end of all flogging. We admit this, while still holding it preposterous to recognise "reason," as Mr. Cobb seems to do, as the great governing principle of children. They are beings of instinct, impulse, imagination and passion. Their self-regulation is not from internal judgment, but from external pains and pleasures, and their discipline should be penalties and rewards. In a word: if we should form babits, as well as in culcate principles, more important than proving to the child what is best for him, far more important is it to "train him up in the way he he should go."

### From the Southport American.

THE GREAT LAKES.

The chain of " Fresh Water Mediterraneaus" that go so largely towards dividing the territory of "Uncle Sam" from the domain of "Mrs. Vic," are a geographical wonder. Extending from east to west over nearly tifteen and a half degrees of longitude, they seem, regarding them upon the map, to rest like a crown at waters upon the head of the Union, their centre of gravity the Island of Mackmac, balancing upon the meridian which separates Indiana and Ohio, equidries kentucky and Tennassee, and passes between Georgia and Alabania and East and West Florida into the Gulf of Mexico. The difference in the latitude of the northern and southern extreme points of the Likes is not The csfar from eight and a half degrees. tunated area of country draining into them is 400,000 square miles—the extent covered by the waters of the whole 93,000 square miles, divided as follows:—Ontario, 6,300; Erie, 9,600; St. Clair, 360; Huron, 20,400; Michigan, including the Bay, 24,400; Superior, 32,000. The waters of the "Father of Lakes" (Superior) are 628 feet above the level of the sen; which elevation is attained by equal gradations, each lake rising above the previous one, from Ontario to Superior, The surface of the waters of Ontario is 235 feet above the the tide water of the St. Lawrence-Erie rises 333 feet above Ontario-St. Clair 6 feet above Erie-Huron and Michigan are 13 feet higher than St. Clair, and Superior rises 44 feet above those.

The St. Clair is by far the shallowest of any of the lakes—the average depth being about 20 feet—Eric average in depth about 84 feet-Ontario 500-Superior 900-Huron and Michigan 1000, as nearly as can be arrived at. The deepest soundings are found in Lake Huron. Off Signiaw Bay, we are told, leads have sunk 1,000 feet, or 1,200 feet below the level of the Atlantic Ocean, with-

out reaching bottom.

Great diffierence is observable in the transparency and purity of the waters of the several lakes. Those of Ontario, Eric. and the Southern part of Michigan have no peculiar excellence—while those of the north-ern part of Lake Michigan and of Lake Huron, surpress in clearness and flavour any waters of which we have drank, though a a still greater purity and a higher relish is said, by those who have visited that lake, to distinguish the waters of superior.

So completely transparent are the waters of Huron, that the rays of the sun are said to pass through them as through the cloudless atmosphere, without meeting with solid matters in suspension to elicit their heat. Thus Dr. Drake accounts for the fact, which he himself ascertained by experiment, that the water on the surface and two hundred feet below the same spot, had precisely the same temperament, 56 degrees.

Through the Welland Canal the navigation of the lakes is uninterrupted for the distance of 844 miles from east to west-the distance north and south is, of course, various, ranging country to which these waters are the great its resources. As well as the justuess of these praises, us the extent to which this fertility is being subjected to in the hand of culture and the rapidity with which these resources are being developed, under the life-bringing touch of the enterprize which peculiarily characterises its inhabitants, is guthered from a bare glance at the fact that the commerce of the four lakes, including all capital affoat, during the year 1843, was estimated by the Topo-graphical Bureau at \$65,000,000.

The total amount expended by the general government on these lakes for the improvement necessary to protect and convenience commerce, is stated by Mr. Whittlesey of Ohio, at \$2,100,000.

When the projected ship canal around the

wide expanse of Lake Superior will be added to the present extent of the lake aggigationallowing the adventurous commercialist to crowd 175 miles still further North and several hundreds farther West. The length of the route proposed to be cut by this canal is said t be but three-fourths of a mile, and the w le expense of the improvement is estimated, if we rightly remember, at about \$280,000. By this comparatively small outlay, less than the cost of three months con gressional black-guard, access is at once at tained to the whole country tributary to Lake Superior-a tract so rich in timber and mineral wealth that it has not unaptly been termed the " Denmark of America.'

### GREAT BEAR FIGHT.

An encounter with four bears took place a few days ago, in the vicinity of Tara-licight on the Madawaska River, in which a friend of ours and two of his men, were the parties

engaged.
A trup had been set by one of the men named Jacob Harrison, who being out in search of a yoke of oxen, on the evening in question, saw a young bear fast in the trap and three others close at hand, in a very augry mood, a fact which rendered it necessary for him to make tracks immediately .-On arriving at the farm, he gave the alarm and seizing in old dragoon's subre, he was followed to the scene of action by Mr. James II. Burke armed with a gun, and the other with an axe.

They proceeded direct to the trap, supplid with a rope, intending to take the young bear alive. It being a short time after dark, objects could not be distinctly seen; but on approaching close to the scene of action, a cracking among the leaves and dry branches with sundry other indications warned them of the proximity of the old animals. When within a few steps of the spot a dark mass was seen on the ground-a growl was heard and the confined beast made a furious leap on Jacob, who was in advance, catching him by the legs, the infuriated animal inflicted a severe wound on his knee, upon which he drew his sword and defended himself with great coolness. Upon receiving several wounds from the sabre the cub commenced to growl and cry in a frightful and peculiar manner. when the old she bear attracted to the spot,rushed on the adventurous Harrison and attacked him with all the ferocity attendant on the circumstances. Jacob turned upon the new foc, and wielded his rusty weapon with such energy and success, that in a short time he deprived her of one of her fore paws by a lucky stroke, and completely disabled her eventually by a desperate cut across the neck, which divided the tendons and severed the spinal vertebrac.

Having completed his conquest, (in achieving which he found the sword a much better weapon than an axe, the animal being unable to strike it from his hand; every attempt to do do so being followed by a wound) he had ample time to despatch the imprisoned cubat leisure.

During the time the stirring and dangerons scene we have related was concting, war was going on in equally bloody and vigorous style at a short distance. Mr. Burke having discharged his gun at the other old bear, only slightly wounding him; the enraged brain sprung at him with a ferocious howl. animal was met by a blow from the butt-end of the fowling piece, the first strake, the stock flew in pieces, and the next, the heavy bar-rel was hurled a distance of twenty feet among the underwood. by a side blow from the dexterous paw of the bear. Mr. Burke then retreated a few feet and placed his back against a large hemlock, followed the while closely by the bear, but being acquainted with the nature of the animal and his mode of attack, he drew a large hunting knife from his helt and placing his arms by his side cooly waited the combat.

The maddened brute approached, growling and guashing his teeth, and with a savage spring encircled the body of the hunter and the tree in his iron gripe. The next moment the finshing of the couteau de chasse, tore the struggle, the other man accompanied by over cities or mountains, seas or descris. his dog, came up in time to witness the triamphant close of the conflict.

Two old bears and a cub were the fruits of the dangerous adventure-all extremely fut -the largest of which it is computed would weigh 250 lbs. We have seldom ever heard of a more dangerous encounter with bears, and we are happy to say that Burke received no injury; and Jacob Harrison although torn severely and having three ribs broken, is doing well under the care of an Indian doctor of the Algonquin tribe.

The above is one of the many, perils inciental to the hardy and adventurous life of backwoodsmen-dangers manifold, by land had their sense of honour extinguished by Falls of Ste. Marie, shall be completed, the gad water, beset, the devious and difficult \$140,000,000.

path of the pioneers of civilization, yet we deily see them hraving and evercoming coery elistacle, in order to realise the anticipations of an enterprising spirit, and leave their names to future ages the landmarks of pristing improvement .- [Bytown [Advocate.

AMERICAN TEA.

We learn by a communication in the Union, that the Secretary of State has recently received a package of tea, grown in Brazil, from our consul at St. Catharines. The leaf is somewhat larger and darker than the Chinese ten; its flavor is strong and aromatic, and resembles the best specimens from China. When prepared, it strongly assimilates to the mixture of black and green tea, much-indeed, almost exclusively-drunk in England; after China, the greatest tea drinking country in the world. The tea plant was first introduced into Brazil by King John, of Portugal. The writer of the communication states that the successful cultivation of this plant, in the United States, may be looked upon as a matter of certainty; as a climate exists in the States of North and South Carolina, Georgia, Tenessee, Florida, Alabama, Mississippi, Louisiana, and Texas, extending one degree south of the Rio Grande, precisely similar to the tea growing districts of China.

The tea-drinking old lady of the Union, referring to the beverage produced by this plant, gives an opinion thereon, in the following distinct and precise terms:—"We have tasted the Brazilian ten; and though we are no great amateurs of the black ten, yet there is so much infusion of the taste of the green ten in it, as to render it extremely pulatable."-

[Buffalo Express.

READING IN CHILDREN .- Reading without intelligence injures the brain and stomacly mechanically; reading with intelligence inures both in the less direct manuer in nervous excitement; but, either way, much rending and robust health are incompatible. Only let a child eager for knowledge be read to, instead of allowing him to read himself, and the whole of the mechanical mischief is avoided; and agair let him be freely conversed with in a desultory manner, in the midst of active engagemen's in and out of doors; and then, while an equal amount of information is conveyed, and is a form more readily assimilated by the mind, nearly all the mischiels of excitement, as springing from study, are also avoided. In a word, let books in the hands, except as playthings, be as much as possible held back during the early period of Education.—[Home Education.

ANTIQUITY OF THE ELECTRIC TELEGRAPH .-The old adage that there is nothing new under the sun-receives some countenance from the following reference to the Electric Telegraph—the most wonderful of our modern inventions, the idea of such a medium of communication having been suggested " a long time age." Strada, in one of his Probusions, (f.ih. ii. prol.

6) gives an account of a chimerical correspondence veen two friends by help of a certain loadstone, which had such value in it that if it touched two everal needles, when one of the needles so touchdistance, moved at the same time and in the same manner. He sells us that the two friends being each of them possessed of one of these needless, made a kind of dial plate, inscribing it with the four and twenty letters, in the same manner as hours of the day seems, must be available. hours of the day are marked upon the ordinary dial plate. They then fixed one of these needles dial plate. They then fixed one of these needles on each of the plates in such a manner that it could move round without impediment, so as to touch any of the four and twenty letters. their separating from one another into distant countries, they agreed to withdraw themselves punctually into their closets at a certain hour of the day, and to converse with one another by means of their invention. Accordingly, when they were some hundred miles as under, each of them shot himself up in his closet at a time appointed, and immediately cast his eye upon his dial-plate. If he had a mind to write any thing to his friend, he directed his needle to every letter that formed the words which he had occasion for, unaking a little pause at the end of every word or sentence to avoid confusion. The friend in the meanwhile saw his own sympathetic needle ving of itself to every letter which that of his cor-respondedent pointed at. By this means they through his abodemen and his smoking rolled talked together across a whole continent, and conspon the ground. At this exciting crisis of veyed their thoughts to one another in an instant,

> STATISTICS OF CAPITAL PURISHMENT .- The STATISTICS OF CAPITAL PUNISHMENT.—The Law (English) Magazine states—"On the lat October, 1836, death punishment was abolished for—1st, attempt to murder, attended with no results dangerous to life; 2nd. burglary; 3rd robbery; 4th. arson; and in the year 1841, for repe. In every one of these crimes there has been at increase since the removal of punishment. Taking the three years which preceded the change," and the years since 1842, '43, and '44, after the change, the increase on the 1st has been 83 per cent; on the second 115 per cent; on rapes 100 ject cent. per cent.

There are now in operation in the United States bout 5,000 miles of railroad, which has cost

### Our Table.

GENERE FARMER .- This excellent monthly, thing new and interesting to the levers of rural ing analysis of Mr. Logan's Geological Report ing analysis of Mr. tation to any work with which he cornected himself. We believe he has taken charge of a Southern journ d, but will sail courr, bute to the columns terst, that should be given to the bounding lines

cars of the Peninsular ven, the total number of deaths in the English army amounted annually to about 16 per cent of the whole force. Of these only 1 per cent died in battle, or of wounds which proved fatal soon after. The number of men sick in hospital usually averaged about onefourth of the whole. In less to in three years and a half, ent of a force the average strength of which was 61,500 men, nearly 24,000 deed, and of these only one fourth fed by the sword, and this enormous mortality occurred among a body of men, ah of whom, a short time previously, unit have been in the healtmest vigour of vouth or prime of manhood; so that it required the annual sacraice of 6,000 able bodied men to keep in the field a working force of less than 50 000 men. If such was the amount of softering and the waste of life, when every expedient was adopted that foretheight could suggest to provide proper food and raiment, and every other attenable comfort both in sickness and in health, what must it be when these precautions are neglected? Of such neglect and its terrible and every ible consequences. Nanolean's campaigns of 1842 and 1843 afford memorable examples. From want of proper supplies alone, the French troops perished literally by hundreds of thousands? There is a resulted by high content of the consequence of the in irkable difference between our lands sea services The Channel fleet, which consisted of twentyfour sail of the line, well trigates, &c , on its return to Torbay, in 1-0 ratter a craise of four months, sent only sixteen men to baspital. The average mortality in the years 1-10, 1811 and 1513, was only 34 per cent; since 1530 it has not been more than 1 per cent, which is less than the to pass into those formations. The gueiss and general average among men of the same age on gramte are often traversed by yours or dylers of a general average among men of the same age on shore.—Quarterly Reriew, 1846.

that the age of the world, and the number of years the years more peculiar to this formation are of which have clipsed from the narryty of Christ (white quartz, to decontaining any metallic immeral, pear meeting the same fix the epoch of the nativity in the year 3°16, while others go back to the year 3°16, while others go back to the year 3°16 and others adopt intermediate years. The two succeeding formations are traversed by an immense number of trap dykes and numeral years. The trap dykes have some a pornhyring the property of the House the frequency of the lake.

202 years the Sanaratan Ashan a Sanarana 1972.

The metals which are met with in formations of 202 years, the Samaratan 140, and Sepanagint 1972 The system most accredited to the present day is that of Archishop Usher, which is founded on discoveries at modern science have priced far be-yould the hypotheses of European chronologists. −{ Medi Æin Kalendorium.

STATISTICS OF GREAT BRITAIN -In 1913, the opulation of Great Britain was about 13,000,060 population of vired triain was about 13,000,000. The Income Tax in that year produced £15,000, be different in different parts of the lake. On 000 at 10 per cent in own at less than 3 per cent in the north-shore theybave an east and west bear-produces 5,000,000. In other words, at 10 per ing on Michipicoten Island they run north and cent, it would produce about 10,000,000. It is south: at the east end of the lake the principal not going too far to affer that both the accountable adjusts of the enture and the annual increment to that capital is now double what it was at the close of the war. But during the war, which transverse to the stratification. ment to that capital is now double what it was at upper slates the most conspicuous veits are those the close of the war. But during the war, which transverse to the strainfation.

Lasted 29 years, an addition of nearly £690 009 000. Mineral veins amiliagous to those on the upper was added to the National Debt being at the rive, of an average, of £30 000 000 is vear borrowel by but they did not seem to be of frequent occurrence. In the three last years of the war, Government. In the three last verrs of the war, rence, and but few obsize 1813, 1814, and 1815, the sums borrowed by made respecting them. the State amounted to the enormous sum of After describing the geographical distribution in the tea-kealte without any water, and hang it in the tea-kealte without any water in the tea-kealte without any water. drafts from exhausting the capital of the country, application of materials," under which head he at the close of a struggle of 20 years' duration, communicates a quantity of information that our that the loss for 1-11 was horrowed at C4 11 1, speculators would do well to study. Mr. Logan being a lower rate than that paid at the commencement of the war.

Population of Rour -The city of Rome is divided into 54 parishes, containing 37,530 tamihes: the ecclesistical population consists of 39 histors, 1514 elegation 3417 courses and frars, 175 anns, and 511 students. The whole population amounts to 170,250 inhabitants, not including the Israelites who are com in number. The population increased last year by 36-4.

The sum of \$75,000 has lately been offered for the patent right of an artificial log. lately invented by a Yankee in New Hampshire. It is estimated that one leg per day is wanted in New England alone, while the Mexican war is creating a good market at the south.

### Scientific.

Lake Superior, the topographs of survey of the cost of transport would otherwise become too various mining locations, and the inspection of the great, the principal and probably the only objec-

piontality is the Arm vsp Nevi.—The of Lako Superior present a best and rocky apparent the oris by dressing or by pittan mumbers of those who perish arbattle, or after, wards from wounds, is small apared to those who de from other causes. Darmer the last apared to those by the margin which is indented with the first of the property of the perish of the margin which is indented with the first of the perish of the perish of the margin which is indented with the perish of the psiance, came nees of from 50 (10 13 to 16 4 rise abruptly from the margin which is indented with immunerable bays, or projected by extensive clusters of islands, thereby providing numerous safe and commodious harbours for vessels that safe and commodous hathours for vessels that may be hereafter engaged along the lake. The fingher per centing than 8, in order to been the fingher is neither large nor of good kind, consisting principally of sprace, balsan fir, white birch, poplar and cedar. Many portions of land, especially 12 to 16 per cent. The sonth Australian ores are those nearest the coast, are quite sterile, the rock being grainte or guess; while the tertile parts, although in sufficient quantity to furnish support although in sufficient quantity to furnish support to a mining population, are not in such abundance being over twenty per cent, and the average price as to induce extensive sentement.

Several considerable streams fall into the lake,

of which the Kamanitiquia and the Michipicoten have been examined by Mr. Murray These rivers take their rise in the height of land separating the waters of Hudson's Bay from the Saint Lawrence. They run from 100 200 indes, and have constructed by the Saint Lawrence which Lawrence. They run from 100 to 200 miles, and then empty themselves into Lake Superior, which may be regarded as the reservoir of the St. Law-rence. The greatest depth of the lake is supposed to be 1200 feet, which would make the buttom to be 1200 feet, which would ma 603 feet below the level of the sea.

The series of Geological formations on the North side is as follows :

1st. Granite and Syenite.

2nd. Guess.
3rd. Chlorite and partially talcose and conglo-

4th. Bluish Slates or Shales, interstratified with

5th. Sandstones, Limestones, indurated Marls, and Conglomerates, interstratified with Trap.

The Granite seems to partake of the properties grantic character, which do not seem to be ac-companied by any metalliferous years. The suc-The Arco The Greek.—For those who companied by any incommercial states of general desired to enter into the abstruction of general desired by reddish vellow felsphatic dykes, but traversed by reddish vellow felsphatic dykes, but excepting iron pyrates, and even that not in large

The var one in the principal copies of the Old Testament have occasion doins diversity of opinion. The Hebrew coles, o which preference is generally assigned, fixes the Oriage in the year 1656, the Simantan colex in 1667, and the treek codex, or Sephagant version, at 2022. The period which to own the Divide Colex in the generations, the cole and the Divide Colex in the generations. They appear, in generation to the cole and the treek codex or Sephagant version, at 2022. The period which to own the Divide Cole in the generations, the cole and produced a suppression to the cole and the

The metals which are met with in formations of Lake Superior are copper, lead, zinc and silver. The veris run parallel to the dykes, which are the H-brow codex, and fixing the epona of the nativity in the year 4000. After an, Moses himself, the imspired historian of the contain, to whose authority it is futile to oppose the matchazard conjectures of his annotators, makes no attempt to give any dato; it was sufficient for him, one of the wisest of men, and possessing dayine information, to state that the world arose "in the begin," besides these, carbonate of copper is give any date; it was sufficient for him, one of the wisest of men, and possessing datase information, to state that the world arose "in the beginning" of all things, and that the beginning the discoveres at modern to the control of the parties. The superior of the virious and copper is often found where the venishave been exposed discoveres at modern to make the control of the atmospheric information. to atmospheric influence. The gaugine accom-The gaugne accomquarizose, while that a which the vitreous copper was found contained a large quantity of calcareous spar or Laumoutte, and sometimes heavy spar-The courses of the metalliferons veins appear to

rence, and but few observations have as yet been

speculators would do well to study. Mr. Logan points out the uncertainty concerning the amount of ore that a lode may yield, a quantity that cannot be determined by any previous calculation. as is the case with coal mines, but must be found by experiment alone, and may vary within the space of a few years. Even in Cornwall and Devonshire, where it might be supposed the probable yield of the lodes could be estimated with tolerable accurrey, from the great experience that has been acquired, we frequently find the hopes of the miner disappointed. The uncertainties in a new mineral region must, of course, be still greater, especially as in the present instance only a narrow strip of land along the lake has as yet

possible; some idea may be formed of the proba-We are indebted to the Colonist for the followthe direction most consistent with the general measurement, which may probably prevent, at east tersst, that should be given to the bounding lines of the several locations.

According to Mr. Logan's account, the shores of the several locations.

According to Mr. Logan's account, the shores of the several locations.

dressing by washing, is 8 per cent, or iess. In some noises the average does not exceed at even after dressing. The Irsh ores are raised to a

Mr. Log in enters pretty fully into the manner mmy to the coal formation of Michigan.

containing a large amount of formation, respects that there is error, or disguise its evils while it ing the quantity value, and price of copper ores address totally from the compassion which foulfies sold during the last eight years in England, the or coaves, and bribes a child to soften its violence average produce of each mine, with the per centage of the ore, a list of the smelling establishments beautiful than the conduct of a child reared under in Great Britain, with the quantities of ore smelted and indicates a child reared under the conduct of the conduct

H. C.

Wormer of Grotory — More than 9,000 defer. [argely onjoyed, that he does not lose sight of the ent kinds of arounds have been er anged into stone, condent or sorrows of others; there is no selfish now extract, in the engage present know in a hying the upon cirth. Thou has present know in a hying the upon cirth. The Megano man extract beautiful in any living atomal is now known upon the orth. The Megano man extract Beasty, says been governed by fear—a suspicious, finial glance, and calcavour to escape observation, no spongue than the property of the condent of sorrows of s

Bu klandportures skeretom arry effective mossal, taneous prattle, no words or actions pouring out with a head and neck like the sloth, as less the moonstrained thoughts and technise, nothing and feet exhibit the cheracter of an Arme and truly emoved because there is an numbefined fear ground for me roots, on which it principally fed-

CHEMICAL ANALYSIS or Tex.-In the me noirs of the London Chem. Society there is an actresting paper by Mr. Warrington, on the analysis of term which he states that he leas not only removed the whole of the colouring matter or glyzing, from green tea, but he has been ablo to analyse for the first time, whole stalling round the pavilion. the matter re noved, and to prove it, by chemical evidence, to consist of Prussem blue and g-psum principally. So that in the the drodlers of green en, as it comes to the Linglish market, indulge in that is a comes to the English market, make a beverage of Chinese paint, and might houtate the inviture by desidence Pruss of blue at plaster of Prus in bot water. The Chinese do not themselves drink this painted teat they only seil it .- [ Ciardeners' Chromele.

TO MAKE A WRITING APPEAR AND DISAPPLAN AT PLIASUEE.—Dissolve equal parts of soliplate of copper and muriate of ammonia in water, and write. When you would make the writing appear, warm the water gently by the fire; the writing will appear in a yellow colour, but as soon as your take the paper into the cold are, the writing will vanish. This may be often repeated.

THAT OLD TEA-KETTLE.- Don't throw away that old cracked tea-kettle. I say said old aunt said the pentioner, "you labour under a great Party Party I is one of the most useful articles; instaite—I have never in my life willfully contraction the pot closet. When you have a cracked teakettle, then you have the best thing in the world for cooking potatoes. Wash them, cut off the end where the eyes are thick, and then put them.

A Western paper contains an advertisement of a farm for sale, and as an inducement to purchase

SLE-Marine Telegraph.—The London Mining Journal for August the 14th contains a project for Laying down a Telegraphic line of communication between the west of Ireland and Nova Scotia, to be composed of stout copper wires twisted enclosed in an Indiambber pipe. Suppose that a did not break in the middle, would not anchors, wrecks, &c., near the shores, interfere with its permanence? near the shores, interfere with its permanence?

To set a Combustible Body on Fire by the CONTACT OF COLD WATER.—Fill a saucer with water, and let fall into it a piece of potassium of size of a peppercorn. (which is about two grains.)
The polassing will instantly become red-hot with a narrow strip of land along the lake has as yet there examined. By a careful examination of a lode at its outcrop, and by following its run, and side of the vessel to the other, with great violence, taking average samples from as many parts as in the form of a red-hot fire-ball.

### From the Liverpool Albian. ANGRY WORDS.

Angry words are lightly spoken. tu a rash and thoughdesshour; Brightest links of life are broken ir deep insidious power, uspired by warmest feeling. Ne er before by anger stirred. Oft are rent past human healing. By a single angry word.

Poison-drops of care and sorrow, Bitter poison-drops are they, Westing for the coming nonrow Suddest memories of to-day Angry words! oh, let them never From the tongae unbruited slip : May the heart's best impulse ever Check them, ere they soil the lip 1

Love is much too pure and holy. Priendsup is too sacred bar. For a moment's reckless folly Angry words are lightly spoken;
B) torest thoughts are result stirred; Brightest links of life are broken By a single aligry word

### For the Ladies.

A Worn to Morneus - Mutual confidence should be a governing principle in the commu-nion between parent and child. This cannot and Log in enters pretty may into the manner a should be a governing principle in the common which the eres are sold at Swansea, by neket-into between parent and child. This cannot mgs as they are termed. He mentions the ores, exist where the former acts only as a judge and or mothers of ores, that have been found to be tawgiver, who acknowledges no compassion, no the best for smeltage and at the end of his report sorrow, who cannot weep and hope with the firmwise out a suggestion that Sugmay Bay word, offender. The few words, "I am sorry that you probably become the spot where a central sinch, are angry," "try to be good and I will help you," "wipe away your tears, and let me hear what and Superior may be formed, owing to its probably here more likely to overcome error, may to the coal formation of Michigan. or turn away wrath, than stern commands and In the appendix. Mr. Logan formshes tables, i disapprobation; for this treatment don't concert abashed and undismayed, ready to welcome and The report of Mr Murray contains a descrip- | he welcomed, seeking happiness, and prepared to tion of his examination of the two tributary rivers, find at in everything, and with everybody, so of Lake. Superior the Kamaniliquia and Wichi, willing to be pleased that every gratification, how willing to be pleased that every gratification, how-ever triffing, is prized and enjoyed; halutuated to Woxpurs of Grotory - Mere than 9,000 differs largely onjoyed, that he does not lose sight of the

and the Anteaier. Is fore between a vard of of doing or saving something which may provoke length, and morethan 12 arches wide, is runtated proclade; or if there be emoyments, they are reby giganitic claws. Its thigh bone was meanly objected in silence, and in that solutide of heart inner as the base that of the emplicit—as consequent in silence, and in that solutide is feature nearest the body, was say betting to account the emonaged to the dream of deal as natural by tasks were manually adopted or current, vecessitely be substance, and it is general structure and their solutions, and it is general structure and them to such and hostow confidence when they strength were in the date of the architecture. and the Antener. The fore thet were a yard on of doing or saying something which may provoke I unduces.

suddenly came on the elephrat; whereupon ha rened to the keeper, and said with surprise. Thunder and lightman, inster, what daried ernter have you got here, with a TAIL ON BOTH

A lover on the point of marriage was conversing with his sweetherst on the Camese custom of hamaging the feet of managing the feet of managing that is, supposed it was done to keep them from gading about, and that he approved of the custom "Then," cried the sweatheart, "a Chinese wife will best sint you." The jig was up. They never married.

Pray, sir," said a commissioner to an insolvent brought up to be discharged on his petition "how could you willfully, and with your eves open, contract such a number of debts without any visible means of paying them!" "My lord, said the pentioner, "you labour under a great mistaite—I have never in my life willfully contract-

a farm for sile, and as an inducement to purchase it, says: "There is not an Attorise within 15 miles of the neighbourhood."

AN ACTUAL OCCURRENCE.-In the Court of Teneral Sessions, one day last week, before Parsons, the following circumstance actually occurred:

An Irishman was arraigned for some petty crime, when he was asked the usual question. mon the reading of the indictment, whether be

was guity or not guilty?

"And how can I tell your honour until I hear the witness?" he promptly replied, and with the innocence of a child.—[Germantown Telegraph

"Ah! dear doctor, how is my wife to day?" The doctor shook his head and said-"you must prepare for the worst." "What," said the husband, "is she likely to get ever it?"

The heat of an oven applied to a dead human body for twelve days, reduces it from 120 to 12

We beg to direct the attention of our readers to the advertisement of Mr. Manning, who has established a Land Agency, &c., in this city. Mr. M. is connected in business with us, and for the correctness of his transactions in the said agency. we have no hesitation in being responsible, while that connection lasts. Advertisements of Farms, we, will be inscited in the Farmer, which now has as large a enculation as any of the ordinary newspapers, and it is daily increasing. Parties having land to dispose of will find it to their advantage to avail themselves of this Agency.

### News Department.

More Pager Emgraves.-It is horrible to contemplate the barbarous cruelty and beatless indifference of some of the Great Irish Landlords A vessel with 420 paupers has just arrived at St John's N. B. from Lord Palmerston's Estates near Sligo, sent out at his Lordship's expense -The major part are women and children, and many of the men and women are aged and mitm. the WHOLE in the most abject poverty, nearly destitute of clothing, only a few having either races or stockings! And his Lordship who is a member of the British Government, sends them here in such a state to encounter the rigours of a Lower Canada wis ren!! We lately read a story which made our blood tingle, of six nustanto buman beings being fastened to a long cable, with an anchor attached to it, and at one "fell swoop" funched into the remorscless deep? The monster who did tois was the Captain of a Slaver who found himself pursued and in danger of detection captain was the more merciful. There was no large transfer by the large function from 1 incomes at the large function from 1 incomes at the part of deaths. Allowing in hinding passengers, buggage, &c., in large function from 1 incomes at the space of 12 hours. To accomplish this the extraordinary average speed of twenty five miles for anglet his Lordon beautiful and from 1 incomes at the part of deaths. Allowing in hinding passengers, buggage, &c., in the space of 12 hours. To accomplish this the extraordinary average speed of twenty five miles for anglet his Lordon beautiful and the large function of deaths. for anglit his Lordship knows tris victims may die Barque F mny. Schooner David, (and will die) by mebes.

It is also stated that another vessel with 230 paupers of the same description, and from the same source, had sailed on the 22th Sept. with orders to make the Port of Qudhec, but if too fare, to put in at St. John's t making in all 650 human beings cast upon our shores, almost naked, helpless and improvided for, many of them sick with fever now, and all of them its certain victims. Could more inhumanity be shown to them, or greater injustice to us? What mour have the people of this colony to provide clothing, fuel, shelter, food, medicine, attendance and gnaves for Lord Palmerston's tenants and paupers? Is this Province to be turned into one vast lazer-house-our best men daily sacraficed-our country swamped-our energies blasted-our prospects runed, in order to relieve the great land gluttons of Europe from the just consequences of their own misdoings and crimes

Contracts for the section of the Great Western Railway, between London and Windsor, have been entered into.

It is asserted, with a good deal of confidence that a dissolution of Parliament will immediately take place, and a general election follow. The party newspapers are busy in preparing for the contest. One journal states that the Royal Ga zette of to-day (Saturday) will probably announce the dissolution, and, if so, that write for a new election will issue immediately, and be made returnable in forty days.

A gong of brigands, the supposed robbers of a number of churches in Lower Canada, have been cantured at Montreal.

The Halifax (Nova Scotia) Times states that there is scarcely an exception to the general failure of the potatoe crop in that region.

Snow was nine inches deep in Quebec on Monday the 15th inst.

Two men, named George Beadle and George Noble, now lying in Hamilton good, under sentonce of death, have been reprieved. The former to be imprisoned in the Penetentiary for life, and the latter for seven years.

NEWFOUNDLAND.—The failure of the potatoe crop, and the partial failure of the fishery, this season, has caused considerable destitution in Newfoundland—particularly at the outports.

We were yestarday shown a sample of when grown in the district of Bonavista Baythis season. It was sown on the 22ml May, and reaped on the 10th September; yielded 25 fold the weight of the seed sown, and is fully equal to the average quality of the apring wheat produced in Lower Canada, New Brunswick, and Nova Scotia. When such grain comes to maturity so far to the north as Bonavista Bay, it must be admitted as pretty dicisive evidence of the agricultural capabilities of this island .- Couries.

J. E. Mille, Esquire, Mayor of Montreal; has fellen a victim to the typhus fever, contracted by contact with sick emigrants: dueth has been, the zawani afihir sangagana henevelence.

DEATH OF DR. HAMILTON.-We regret to state that Dr. Hamilton has follen a victim to the prevailing fever, contracted in the discharge of his professional duties towards the sick emigrants.

Sir Richard Bonycastle died in Kingston on Tuesday, the 2nd inst He has lived in Canada something more than 30 years. He was Lieumant Colon el in the Royal Engineers; and was engaged in the war of 1812. He was also known as a wrner on Canada.

## GOVERNMENT EMBRATION OFFICE. }

Return of the number of emigrants arrived from the opening of the navigation, to the 27th Oct., in 1536 and 4547 :-

From	England, Freland, Scotland, Germany,	1-16 5,672 20,111 1,521	1-37. 30,557 51,651 3,351 7,129
T	otal,	31.521	92,718

N. B — The deaths on the voyage and at Grosse-Islo are to be deducted from the above.

New York, Oct. 25th .- Cayantay Exports. ince the first of July, the following Canadan product have been received at this port, rer Oswego, and experted to England: 5576 barrels of flour; 191 barrels Corn meal; 158 barrels Barrey; 200 barrels Pease.

I p to the task any of October, mst mt. 94 ve arrived in it's Province, and Linded 15/209 pas-engers. The deaths at sex on hourd these ves-sels, one outed to G.2. The number of deaths

Londonderry, 223 Galway, 90 Laverpool, Barque James, 129

Total, 535 "
The whole number landed New Brunswick the present season, up to this date, 15,794.

Lists of passengers by the undermentioned ves els have been received at this office :-

Sailed 25th Sept .-

British Queen, Londonderry, 44 pssengers. Trumph, Sligo, 44

In these two vessels there are 23 adult males; the residue consists of women children. H. M. PERLEY, H. M. Emigration Officer.

### GENERAL POST OFFICE.

Montreal, 25th Oct. 1947 From and after the 16th of next mouth no Amer ican Postage is to be collected in Canada, either upon Letters and newspapers coming from v. going to the United States.

You are not to understand by the above, that our Post Office communications with the United States are to cease,—on the contrary, the inter-course (so far as I am at present instructed,) will continue as at present—with the difference—above instanted, viz: That no American Postage is to be collected within the Province.

All letters to the United States must continue to be pre-paid to the Frontier Line.
T. A. STANNER

D. P. M. Genl.

Nore.—You will understand that you may re-ceive American Postage on Letters for the United States, which will reach your Proutier Office, by or before the 16th November-but not after.

TRADE OF NEW BRUSSWICK.—There were Cleared at this port in September, 10 vessels for Hulk 7 for Liverpool, 5 or London, 3 for Cork, 2 for Glasgow, 2 for N , 2 for Ayr, and one each for Bristol, Dublin, Greenock, Gloncester, Newcastle, Newport, Bridgport, Waterford, Boston, Exoter, Aberdeen, and Sligo-Toul 43-vessels for the United Kingdon, with carroes amount. sels for the United Kingdom, with cargoes amountng in the aggregate to 9805 tons Pine Timber; 961 do Birch; 493 do Spruce; 9,211,094, feet Boards; 17,188 do plank; 92,740 do Scantling; 141,000 Pailings; 89 cords Lathwood; 10,000 Laths; 48,003 staves; and 500 boxes Herrings.— [St. John, A. B. Oct 12.

Coorses New Brusswick .-- We are sorry to learn from authority which we cannot but trust, that the cross this season in the Province have turned out generally very defective. Potatoes will not be near half a crop, as compared with other years, these two last excepted. Oats though other years, these two has excepted. One induging strong in the straw and promising well, never properly filled in the grain, and will not be much over half last years' crop. The same may be said of buckwheat which likewise made a good appearance, but filled badly. Wheat, even where the weevil did not attack it, is poor and ill filled in the car. The constant rains have prevented the hay as well as the corn crops from being well got in, and in the former great losses have been sustamor tripe to the cocks, and by the grass being over-ripe before being cut. It has been a disasterous season for the farmers, and will tell upon the Province deeply by large importations being required to make up the deficiency.—[Colonial

A St. Petersburgh letter states that the amount in value of the corn expected from Russia since the last harvest is 32,991,621 rambles, equalling about 133,000,000 finates.

APPOINTMENTS, &c.—Sir W. Colebrook, late Governor of New Brunswick, has been appointed to that of British Guana, succeeding Mr. Light, who retires. Sir Edmund Head assumes the Governorship of New Brunswick. Sir Edmund is the forestick. mund is but distantly allied to Sir Francis Bond Head, late Lientenant-Governor of Upper Canada. Lient-General Sir G. H. F. Berkeley, K. C. Il , has obtained one of the Indian prizes, the command of the Madras army. It is a locrative command (about £10,000 a year.) Sir George Berkeley will not have less than 70,000 men under his control. Lientenant-Colonel Atmisc Mountain, C. B., of the 26th Cameronians, has been selected to accompany the Larl of Dalhousie to India as Military secretary to the Governor-

DEATH FROM PAREGORIC.—The New York Express, of Monday, says:—The Coroner held an inquest yesterday, in 25th street, upon the body of John Sloan, aged 4 months. It appears that the mirse gave him six drops of paregoric on Saturday morning, from the effects of which he died yesterday mornig.

DEATH BY PIRE '-On Sunday might last, Mr. John Spronte was burned to death, in a shed adjoining a coal pit in the Township of Usquesing. Another young man who was with Mr. S. at the time, was so severely burned, that his life at last accounts was despaired of .- [Dundas Worder.

House THIEVES ABROAD.—A valuable mare, belonging to Mr. Samuel Forsyth, was stolen on

birrels Bariey: 200 barrels Pease.

Number of emigrants who have died at Grosse Iste corning to cress in summer. 3.452; thed on the possage, 3.60; at Marine Hospital, Quebec, it come in vessels at Quarantine. I.162,—making to grand total or 25.4.

The steamer New Orleans arrived in the steamber four hundred on the 31st, whole number of train escort 5000 feet in length, with the usual magnificent decorations as well as the power of making a trip from troops. No resistance, Santa Anna superseded to its as well as the power of making a trip from troops. No resistance, Santa Anna superseded to Rincon, but he loudly protests and refuses observed to the Rincon, but he loudly protests and refuses observed to the Rincon, but he loudly protests and refuses observed to the Rincon and the loudly protests and refuses observed to the Rincon and the loudly protests and refuses observed to the Rincon and the loudly protests and refuses observed to the Rincon and the loudly protests and refuses observed to the Rincon and the loudly protests and refuses observed to the Rincon and the loudly protests and refuses observed to the Rincon and the Rincon and R any at 6 a clock, A. M., and arrive here at 6 P. M.: thus making the passage to and fro, a dis-trace of 200 times, actualing time occupied at

> Suspension Bridge Companies have been several days in Session at the Falls. The strength of the supporting cubies is to be not less than 6,500 tons. The cost is not to exceed \$190,000, and the work to be completed by the 1st May, 1849.

> Charles Ellet, Jun., Esq., of Philadelphia, has been appointed engineer. The bridge will be maght both of the Cataract and Whirlpool, and span the garge by a arch of 800 feet suspended 230 above the surface of the Niugara River.—[Niugara Chronicle.

Extract from a private letter, dated PERCE', 21st October, 1947.

Marine Disasters.-" We have had, lately, some hard gales of wind on this coast, and no less than four schooners are reported wrecked at or near Fox River, by which accident two of the crews have perished. I have not heard the crews have perished. I have not heard the manes of the ill-fated schooners—one of them trames of the ill-fated schooners—one of them (crew lost) was of, and from. Three Rivers, up-set, while putting under sail, to get ont of Fox River, at the commencement of the gale—it is expected that she will be saved without much damage. I fear we shall hear of more disasters in the river, for the gale of S. E. wind was most terrific. You will be sorry to hear that the potates grow to lives by the art in that toe crop is almost a total loss by the rot in both Gaspe and Bonaventure—and I fear the poor inhabitants will suffer want during the ensuing winter—for that root is the bread of the district, and the absence of it will be productive of great distress."—[Queboc Mercury.

JAMES DURAND, Esq.-We are happy in being able to announced the election, by a manimous vote, of James Durand, Eq., to the office of Clerk of the Gore District Council. From Mr. Durand's long and intimate acquaintance with public affairs, and from his well-known business talents, we are satisfied that the office will be filled with credit to the gentleman selected, and much satisfaction to those by whom he has been appointed.—[Dundas Warder.

MONTREAL AND LACHINE RAIL-WAY .-- We are glad to see that the Montreal and Lachine Railway is rapidly approaching completion, and it is confidently expected to be opened in the last week of this month. The terunnus at this end, though not boasting of much architectural ornament, will be a very spacious and comfortable building. On Saturday, we saw the engine recently purchased in the United States, two others being ordered from England, moving in great state along St. Antoine Street, to be set up and placed on the line. It weights no less than seventeen tons, and the boiler was drawn by 18 horse We at first started as if we had seen a ghost, and a very substantial one too, for it exactly reminded us of the procession of the statue of the Iron Duke to Hyde Park corner .- [Gazette.

### THE CHOLERA IN GERMANY AND RUSSIA.

Letters from St. Petersburg of the 5th Nov. state, on the authority of the official reports re-ceived by the Government, that the cholera continued to advance toward the north and east.
Cases of it occurred at Orel, at Touls, and even in the village of Pensa, situated at only fifty leagues from Moscow. In the province of Astrakan, in which there were 31,000 inhabitants, 5915 cases has occurred, and 3131 deaths. The dises raged with great severity at Tacharno-Jarok and in the environs. At Sarates, the capital of the nn me environs. At Sarates, the capital of the province of that name, 2500, persons had been attacked, 1991 of whom had died. In the country of the Councils of the Den there had been 12, 651 cases, of which 7017 terminated fatally.

At Cherkey 53, persons, had been eseried 4

and on September 15th there were 589 sick at. Kursh. At Woronesh, a town with a population of 44,000, the cholera broke out on the 4th of September, and 420 new cases, and 150 deaths had occurred daily. On the 16th there were 1019 persons ill of the cholera in the hospital; 41° of whom were attacked the same day. The deaths on that day were 152.

The Journal des Debats publishes the following letter, dated Vienna, the 10th inst., amouning the appearance of the cholera in that city:—

"The cholera has already caused a victim among us On the 7th inst., a person died in the general hospital of that malady. We trust that it is an isolated case, but nothing, nevertheless, shall be neglected to combat this scourge, should it make its appearance. The statement made that the cholera had appeared in Gallicia is unfounded. It was the typhtis and a fatal diarrhera which cut off numbers in some circles of Gallicia and Silesia, but the cold weather has commenced, and has contributed considerably to the reseation of these two maladies."

Constitutioning, Oct. 7 .- Since the equinoc tal gales have set in, the cholera has disappeared from Trebizond. It has, however, broken out at Bagdad. Baron de Weymar, the French consulat that city, was again attacked by the terrible epidemic, but has since recovered.

### MEXICO.

MORE PIGHTING AND MORE VICTORY!

by Rincon, but he loudly protests and refuses obs-dience to the government. The city was filled with rumours of peace. It was said a quorum of Congress met at Querataro. Majority decided in favor of an anneable adjustment. Little doubt but that a force of 400 Americans had occupied Orizaba. Several officers have had leave of absence from our army to the United States, some to recruit their regiments. New paper published in Mexico city, called the North America—W. C. Toby of Philadelphia publisher. Affairs in the city in a quiet state.

Gen. Lane arrived at Perote, and was joined there by Capt. Walker and his command, who there by Capt. Walker and his command, who took march to Huanautla. A sanguinary engagement took place in its streets, between Walker's force, 250, and the Mexicans, 1600. Resulted in the total expulsion of the enemy, and occupation of the town by our troops, who only lost six men—among them Walker, killed by a father, enraged at the loss of his son. The Mexicans lost 200 men, and three pieces of artillery. The Americans afterwards evacuated the place, and went towards Pinal, on the Puebla route. No opposition; and there meeting General Lane, both marched together for Puebla, which they found in a state of insurrection. Had to fight in both marched together for Puebla, which they found in a state of insurrection. Had to fight in platoons, and drove the Mexicans back, and order was restored. Gen Rea then fled, with 400 guerillus, towards Allico. Santa Anna last at Chacan de los Grenadas. All troops had deserted him, except 200. Severe rhocks of earthquaken at the Capitol. Health of our troops far from house realless may be a surface and the severe and the at the Capitol. Iteatm of our troops har from being good—comate uncongenial to Southerners. Effective force reduced considerably—10 to 16 per cont. General Persifer Smith succeeded Quitman as Governor of Mexico. Capt. Naylor, of Pennsylvania Volunteers, Governor of the Pálace, and Keeper of Archives. Generals Shieldsand Quitman will come down with a train for Vera Cruz, on the 31st Octobes, on way to the United States, ship Ossign, from New York the United States ship Ossian, from New York, with troops arrived at Vera Cruz, Oct. 30. Escort with troops arrived at vera Cruz, Oct. 30. Escort for protection of this train, four or five companies of Infantry and some Cavalry, under the command of Colonel Harny. General Scott and staff have lately visited the city of Gaudaloupe. General Almonte has succeeded in reaching Queratara. The New York regiment of volunteers, under command of Capt. A. W. Taylor, have presented swords to their Captain, and Lieut J. E, Griffin.—Colonist.

COBOURG MARKETS.

Nov. 17.—Wheat, 3s 9d: Flour, 25s; Oats 1s to 1s 3d; Barley, 2s to 2s.6d; Rys. 2s 6d to 3s Potatoes, 1s 3d to 1s 6d; Butter, 74d to 8d; Hay 304 to 37e 6d - Star.

### Toronto Market Prices.

Nov. 20.	₽.	d.		a.	đ.
Flour, per barrel, 196 lbe	20	0	a	22	6
Oatmeal, per barrel, 196 lbs	20	O	4	21	3
Wheat, per bushel, 60 lbs	3	9	4	4	4
Rye, per bushel, 56 lbs	3	O	4		4
Barley, per bushel, 48 lbs	2.	3	a		8
Oats, per bushel, 34 lbs	1	4	4		G
Peas, per bushel, 60 lbs	2	0	#		6
Potatoes, per bushel	2.	3	4		0
Onious, per bushel	3	9	4	•	0
Tub Butter, per lb	0	6	4		7
Fresh Butter, per lb	0	74		0	9
Eggs, per dozen	0			0	9
Beef, per cwt		6		20	0
Beef, per lb			a	0	34
Pork, per 100 lbs	12	6		2[	3
Hay, per ton	40	Õ.		45,	
Straw, per ton				30	Ō
Timothy, per bushel, 60 lbs	*		4		0
Mutton, per lb., by the grand	0	34	4	Ŏ	3
Voni, per lb, by the gr	0		•	0	8
Turkies, cach		8	4		9
Googe, each		6			0
Ducks, per couple	. <u>Į</u> .			₽.	
Fowls, per couple	1		4	∙ ફ્રેઃ	ď
Chickens, per couple	. Q.	10	•	1.	. 3
Bacon, per lb	.0				
Hame, per cwt	40	2		45	
Lard, per lb		L	4	. :	•

### Prospectus of the 2nd Volume OF THE

# "Canada farmer."

FAMILY JOURNAL OF AGRICULTURE, INTERNAL IMPROVEMENTS, LITTRATURE, SCIENCE AND GENERAL INTELLIGENCE;

Published every other Saturday at R. Brewer & Co's Establishment, Toronto; and is now offered at the exceedingly low price of ONE DULLAR per year.

The Farmer was established to supply a want that has long been felt in the periodical Laterature of Canada. On the one hand, a majority of the weekly publication devoted their exclusive attention to the pulitics of "party," a few to Religion and kindred topics, and on the other, over "magrame" poured out its nowmer stores on the grand, mexhausible, and vitally important subject of Canadian Agriculture?

Radway is expected to pass within half a mile south of the premises. Price £1500 all down but if the party desire it, half down will be taken, and kindred topics, and on the other, over "magrame" poured out its nowmer stores on the grand, mexhausible, and vitally important subject of Canadian Agriculture? ject of Canadian Agriculture!

Although it is impossible to treat of public questions without, in some sense, writing politics, yet the "Farmer" has not meddled with "parties" nor will it hereafter less scrapulously avoid them. nor will it hereafter less scrupulously avoid them its objects are the interesting, the useful, the necessary. As Agriculture is the interest of first importance to the people of Canada, so is it awarded the first place and the chief attention in the columns of the Farmer. Emigration, Commercial regulations, Education, Legislative emactiments, and all questions bearing on the industrial pursuits of the country come under impartial review. Short notices of useful books Ac., literary selections, entertaining, instructive and moral; the improvements and discoveries in Science and the useful arts; a dish for the Ladies, and Scraps for the loyer the markets at home and and Scraps for the boys; the markets at home and abroad, with the general news of the day, com-plete the bill of fare to which we invite the attention of every family, in every town and township

The 1st volume has met with unexpected favor from the public and the Press. The encommuns of the latter, so liberally bestowed, would have consoled the Editors with the belief that their labours MERITED, had they not received encourage. But the SUBSTANTIAL support of the pubhe has been such as to warrant us, we think, in

continuing the publication.

The 2nd vol. will be superior to the first in several points. More time will be given to it by the Editors, and a number of persons of the highest qualifications have promised their assistance as correspondents. A number will be sent as a spe-cimen to any one requesting it by letter (or other-wise) POSTAGE PAID. All orders should be sent in by lat, or at latest by 5th January, so that we may know how large an edition to print. The unex-peoted demand for back Nos. exhausted our edition of the 1st vol. some time since, and to pre-

### Advertising Department.

WM. McDOUGALL, Attorney-at-Law, Conveyancer, &c., &c., Toronto, Canada West, (Office, North side of King Street East, opposite Post Office Lane.)

### JAMES MANNING, Land & General Agent, Conveyancer, &c., &c., &c.

Office, No. 2, Wellington Buildings, KING STREET EAST, TORONTO,

(OVER THE SHOP OF MR. G. BILTON, TAILOR.) OFFERS his services to the Public, as House and Land Agent, and as Agent for the transaction of any other business that may be entrusted to him, in the Purchase, Sale, or Leasing of Proporty, and business of every description relating to Landed or House Property; the collection and prosecuting of claims, and procuring of Titles under the Heir and Devizee Act. &c. &c.

Doods, Mortgages, Leases, Walls, Bonds, and other instruments drawn, and engrossed, with accuracy and despatch, and on moderate terms. He will also attend to the sale and purchase of Bank and other Stock, collection of and Land Agent, and as Agent for the tran-

chase of Bank and other Stock, collection of Rents, Debts, &c.

Land Scrip Bought and Sold, Petitions or Me-morials prepared; claims upon Government, and

will be attended to.

### MOTICE.

ALL persons having in their custody or pos-session any MONELS, GOODS, CHAT-TLES, or FFFECTS, heretofore belonging to DECEASED Emigrants, or now belonging to SICK Emigrants, are hereby required, wormour LOSS OF TIME, TO DELIVER THE SAME to the undersigned, who has, by order of His Excellency the Governor General in Council, dated the Sith day of October, instant, been daily empow ered to receive such Moneys. Chattles and Effects JOS. CARY.

Deputy inspector General.
Montreal, 26th Oct., 1847.

Farm for Sale.

A FARM of 200 Acres, situated in the township of Dumfries, being Lot No. 9 in the third concession on the main road to Paris, and about 1 mile from the thriving village of Saint George; will be sold upon reasonable terms, the owner being anxious to purchase a greater quantity of Lind to settle his sons. There are 140 acres cleared g and fences, a good trune house built in "37 a large orchard, chiells of grafted fruit, and living springs on both of the front corners of the lot. It is 100 rods wile by one mile in depth, thus making it convenent for mile in depth in the first prise at the late provincial Agricultural Exhibition—House Rakes.

Turnop Drills, and every article in the Agricultural in the United States, as well as in other countries, may now be regarded as the united states, as well as in other countries, may now be regarded as the united states, may now be regarded as the united states.



### Home District Mutual Fire Company

OFFICE-Corner of Alfred and Pay Streets Toronto.

INSURES Dwellings, Houses, Warchouses, Buildings in general, Merchandize, House-hold Furniture, Mills, Manufactories, &c.

DIRECTORS: John McMurrich, W. A. Baldwin, John Eastwood, John Doel.

William Mathers, A. McMaster, J. B. Warren, B. W. Smith.

Benjamin Thorne, J. H. PRICE, Esq., Prendent. J. RAINS, Secretary.

All Losses promptly adjusted. Letters by Mail must be post-paid. December 26, 1846.

> ENIGRANT CONVALENCENT HOUSE, 1st November, 1847,

The undersigned begs leave to acknowledge the receipt of the following Arralan vent such an occurrence again, we hope our the receipt of the following Articles of Agents and all others will send forward their orders without delay. Subscription \$1 is advance.

Toronto, November, 1847.

Toronto, November, 1847. a quantity of Shoes, Stockings, &c., and he will continue to receive or send for articles of clotit that effect, for the above good purposes. It is a well known fact to the public, that in consequence of illuess, many of these poor creatures have been plundered of their all, from port to port, coming here, consequently leaving many of them in a state of nudity to enter on the Canadian winter.

WILLIAM RAMSEY,

Superintendent 488-Toronto, Nov., 1, 1847.

All the city papers to give three insertions.

### To Physicians, Surgeons, &c.

THREE or FOUR Licensed Medical Practi I tioners are wanted immediately at the TORONTO EMIGRANT HOSPITAL.

Each Medical Attendant—with the assistance

CROWN LAND DEPARTMENT. Montreal, 10th March, 1846.

TOTICE is hereby given, by Order of his Excellency the Administrator of the Governall business connected with the Crown Land, and ment in Conneil, to all persons, who have reveiv-Clergy Reserve Offices, attended to. J. M. assures those who may intrust their business to his management, that it will be faithfully previous to that date, whose locations were not and punctually attended to. He begs to refer, included in the list of unpatented lands, hable to ness to his management, that it will be tamming and punctually attended to He begs to refer, included in the list of unpatented most, name to forfetture, published 4th of April, 1839, that unpatented man, M. D. and J. Besty. less the claimants, or their legal representaves, Esq., Toronto, and Benjamin Holmes, Esq., and establish their claims and lake out their patents within two years from this date, the land will be assumed by the Government, to be disposed on the second of the common of the common has date. by Sale.

### BOOKS FOR THE PEOPLE.

CHAMBERS'S MISCELLANY, or Tracts
FOR THE PEOPLE, 19 vols. This is
one of the cheapest and most interesting publications issued from the press. Each volume may be had separately, and is complete of itself.

SELECT WRITINGS OF ROBERT CHAMBERS, 6 vols.

SUBJECTS OF THE VOLUMES.

Volc 1 & 2. Essays Familiar and Humorous.
3. Do moral and economic.
4. Essays on Philosophical subjects, centimental Essays, and Historic sketches.
5. History of the Rebettion of 1745-6.
6. Traditions of Edisburgh.

Notice to Agriculturists.

He calls particular attention to his "Premium wo ther countries, more Resper," which obtained the prize at the late Meeting of the Agricultural Society of this District, and was pronounced by the Judges to be superior to any Machine of the kind ever imported into the Country. The machines are warranted to cut from 15 to 20 acres per day in a satisfactory manner, and will be sold at \$90 cash or \$100 at \$12 months with

good security.

J. B., in offering the above mentioned articles to the Public, bear to be understood to warrant every article manufactured by him, and having had a long practical experience in the business, and employing none but first rate Mechanics, feels—confident that

he can give general satisfaction.
All orders punctually executed when accompa med with cash or approved references in the City

### Workman Brothers & Co.,

No 3d, KING STREET.

OFFER FOR SALE:-60 tons English Iton, 20 tons Best Iron, 20 tons Swedes Iron, 15 tons Hoop and Band Iron, 10 tons Sheet Iron.

3 tons Succe From,
3 tons Plough Sherrs,
2 tons Waggon Boxes,
2 tons Cast Steel,
3 tons Blater Steel,

1 ton Spring Steel, 4 ton Eagle Steel, 2 tons Camp Ovens, 2 tons Bellied Pots,

5 Blacksmith's Bellows, 60 Blacksmith' Vices, 15 "Hill's" scarranted Anvils, 120 Sugar Kettles, 40 Potash Coolers,

10 boxes ' Pontpool" Plates. 25 Box Stoves, 21 to 36 inches. 450 casks Cut Nails. 50 casks Wrought Nails,

20 casks Patent Pressed Naila, 35 casks Horse Nails,

15 casks Horse Mails,
40 casks Virought Spikes,
40 casks Coil Chain,
200 hoxes Windows Glass,
2 tons Putty,
20 dozen Common English Spades,
10 dozen Common English Shevels,
5 dozen Irish Spades,
9 dozen Scotth Suades.

2 dozen Scotch Spades, 60 dozen Steel Shoveln. 8 dozen Steel Shovels.

10 dozen Grain Scoope, 40 Philadelphia Mill Sawa, 40 "Fairbunks" "Plati'm a CounterScales

JUST RECEIVED, ex ships Capricorn, Beron of Bramber and Bockshire, in addition to their present Stock of HARDWARE,

18 PACKAGES OF SHEFFIELD & BIRMINGHAM

Shelf Goods, With an Assortment of American Hardware. Toronto, 25th March, 1847.

### R. H. Brett,

161 KING STREET, TORORTO. GENERAL MERCHANT-WHOLESALE.

MPORTER of Heavy Hardware, Birming hain Sheffield and Wolverhampton Shelf Goods, Eartherware, and Glassware, in Crat a and Hlide.

Crain and Hitts.

Iso,—Importer and Dealer in Teas, Sugars,
Tobaccos, Fruits, Spices, Oils, Paints, Dye
Woods, Gunpowder, Shot, Window Glass, Cotton Batting, Wadding, and Candle Wick
Together with a select Stock of STATIONERY, English, French & German Fancy Goods,

Combs, Beads, &c. &c. &c.

Toronto, Nov., 1846.

### Notice.

THE BOOK, STATIONERY, PAPER-HANGING, and BINDING BUSINESS hitherto conducted by R. BREWER will, from and after the lat of April ensuing, be carried on by the undersigned Firm, under the Name of

At the present well-known Stand, No. 46, KING STREET EAST.

In connection with the above, the Subscribers will open, on the 1st of May next, in the same Premises, the

### Drug & Medicine Business,

In all its Branches, Wholesale and Retail. This Pepartment will be conducted by one of the Frim, Mr. JOHN BENTLEY, who possesses, from many years experience in several of the best houses in England and in this Country, a thorough and practical knowledge of the Profession. RICHARD BREWER.

EDWARD MePHAIL, ROBERT MePHAIL, JOHN BENTLEY. Toronte, 9th March, 1847.

# Fairbank's

Scales for weighing Wheat, both portable and to be set in the floor, furnished with weights to weigh even bushels. For Sale by

WORKMAN BROTHERS & Co.

Toronto, 22nd March, 1847.

### Boot and Shoe Store,

4, CITY BUILDINGS, TOROSTO. SIGN OF THE GOLDEN BOOT.

IIII: Subscriber embraces the present oppor-Customers, and the Public, for the liberal patronage he as received from them since his comage he as received from them since his commencement in Business, (being about fourteen years,) and begs to inform them, that having recently added to his Frennics, and greatly en larged his Stock, he has now on hand a large Assortment of Ladies'. Gentlemen's, and Children's BOOT'S A SHOES, INDIA RUBBERS, &c., of all sizes and quality, which he is disposed to sell on the mean moderate terms.

JAMES FOSTER. January 18, 1847.

FOR Cheap Birmingham and Sheffield Goods, try the

NEW HARDWARE STORE,

No.77 Youge Street, a few doors North of King-ot.

### J. Shepard Ryan.

Having a Partner in England, can purchase Goods at as Low Prices as any other House, and respectfully solicits a slure of public patronage.

CASH PURCHASERS will find it to their advantage to give us a call, as we calculate on clearing off our Old Stock every winter.

Torento, 1st January, 1847.

J. Ellis, Civil Engineer. TORIZONTAL. Inclined, and Undulating Inclines of Railways Surveyed; Macadamized and Plank Roads, Canals, Docks, Harbours; every description of Dramage, Tunnels, and Bridges of Brick and Stone Iron and Wood, both Pendent and Insistent, with correct Specifications. Sections or Model Maps and Estimates showing the true cost of construction, founded upon Rules and Principles structly Mathematical, obising the true is sixteen years experience and obtained through sixteen years experience and active practice, both as Engineer and Contractor.

N.B. J. E. will give detailed Estimates, if soquired, to persons employing him, showing and proving that the Calculations are founded upon true principles, with Plans, Sections, or Model Maps, showing the true Cubic Measurements of Cuttings, Embankments, Grading, and Side Drains, so simplified that almost any person may keep a correct check as the work proceeds upon the quantity of workdone.

Peter street, Toronto, January, 1847.

THE

# Canada Farmer,

A SEMI-MONTHLY JOURNAL OF AG-RICULTURE, INTERNAL IMPROVE-MENT, LITERATURE, SCIENCE, AND GENERAL INTELLIGENCE, is published ev-ery other SATURDAY orning, at the Book & Stationery Store of R. BREWER, 46 King-street,

Single Copies, 5s.; any person remitting Subscription for Three Copies, will receive one copy gratis. All Payments to be made in Advance.

Advertisements inserted on the usual terms. All Communications to be addressed "To the Editors of the Canada Farmer, Toronto," and Post paid.

It will be seen by the above that our terms are greatly reduced. If the Canada Farmer is not now the cheapest, neatest, best conducted, and most useful family paper published in the Province, or, indeed, upon this continent. then we are mistaken, and so are many of our brethren of the press; and if it does not soon obtain a larger circulation than any publication

in the country, we shall be much disappointed.

A List of authorized Agents will be published as soon as appointed, of whom the Paper can be obtained, in different parts of the country.

### AGENTS FOR "THE CANADA FARMER."

In addition to the agents whose names are given before, nearly a hundred have lately been appointed. We may give their names on some future occasion.

Travelling Agents.

James Willson, Wm. A. Stephens, Jeremiah Sovereigu, and David Curtis, jr.