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CANADA



FARMER.

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

Vol. I.

TORONTO, SATURDAY, JUNE 19, 1847.

No. 11.

ON THE MAKING OF CHESHIRE knife or other dull edged instrument. In and, if possible, during the whole process, CHEESE.

(Continued from our last)

allowances accordingly with no dairymaid who regularly weighs ches broad. the salt; but a highly-respectable farmer, whose wife makes a first-rate cheese, has seriew or lever press, and the skewering is as follows :--

In the above instance it will be seen

bout forty cows.

ed" is the kind generaly used; but weight at the end of the lever. some use "fine." Before applying it. Before turning the cheese for

order to support the outside of that part of the curd which is above the vat, and to It has been generally considered that keep it in proper form when the press is a gallon of milk (supposing lattle or no applied, a tin or zinc hoop or "fillet," cream has been taken from it) will pro- the edges of which are rounded off so as count, from the acidity which it soon acduce, upon an average of the season, 11b. not to cut the cloth, and the ends hppping of saleable cheese; that is when the over and unattached so that the same filcheese is four or five months old. In let will do for different sizes of cheese, autumn there is always more card from is introduced round the inside of the top easily moved to a sufficiently warm the same quantity of milk than at any of the vat. The "fillet" thus placed place, which cannot be the case with the other part of the season.

During wet weather there will sometimes be more milk than usual, though whey is effected through it as through the perforations of the vat. Since it has both are also made of wooden boxes filled. curd. An experienced dairymaid soon become the fashion to make Cheshire detects these different results, and makes cheeses thicker than they used to be, it is I have met no unusual thing to see fillets 6 or 8 in-

given me the weight used in his dairy, is also continued. The pressure is in-as near as the same can be computed. It creased at intervals, and the skewers increased at intervals, and the skewers inserted in fresh places to accelerate as much as possible the discharge of the re-maining whey or "thrustings," as it is n iw termed.

of salting, the curd is taken from under that more in proportion was used in sum-tyre than at other times, and that the arrivat, for the purpose of being turned upcheese (or say farty gallons of milk). the first place, the angles of which was topmost in the vat are cut off, I was favoured with an account from a circular piece, two or three inches deep, another dairy in which, to oblige me, the is often also scooped out of the centre, salt for once was weighed. For a cheese and both are broken small with the hands which weighed 46 lbs. at four months old) and rounded up in the middle. The 1 lb. 1 oz. was used. This is also after cloth being drawn over the curd, the vat the rate of 1 lb. of salt for 40 lbs. of is then turned down upon it, and re-turndried cheese, and was said to be the ing the vat with the curd in it, the other quantity uniformly used throughout the angles and centre part of the curd, are year in this dairy, which consisted of a- broken in a similar manner; after which , the tin fillet is put on, and the screwing A third account is from a dairy of six- and pressing are continued as before for teen cows: the quantity of salt used was about half an hour or an hour. It will, generally about 11b. for 45 lbs. of cheese, probably, be two or three o'clock in the but the dairy-maid made a trial last year afternoon before the curd (or cheese, as with one cheese, using only three quartit may now be termed) is got under the ters of a pound. The cheese was made press, that is, when it is removed from at the beginning of June, and when the screw to the stone press; but where weighed in the middle of September was the lever press is used instead of the 42lbs. This choese was admitted to be screw, which, I think, might always be better than the others in the same dairy. advantageously done, all the change that The salt termed the " middle grain, will now be required is a little more

Before applying it. Before turning the cheese for the purthe card is cut into three or four equal- pose of placing it under the press, it is sized pieces, and each of these is broken usual to prick it perpendicularly down into smaller pieces by hand, or is pass with a skewer in several places, for the sed once through the curd-mill. The purpose of making drains for the whey, salt is then scattered over it, and the after having been so turned. A clean "breaking" continued either by the cloth is applied, and where the lever hands, the curd-mill, or both, until the press is not used, the cheese is put under salt is well intermixed and the curd is one of the lightest of the other kind. A perfectly crumbled. Each portion as it pressure of six, eight, or ten cwt., acis broken is put into the cheese vat. in cording to the size of the cheese, will be which has first been placed a clean and sufficient. This is generally accompanies from cloth than was used for the plished by about two or three o'clock in previous process, and the curd is companies. previous process, and the curd is com-pacted as much with the hands as pos-now used, and remain (hyremoving them sible. To admit of the curd being pro-occasionally into fresh places) until about perly pressed it is necessary to put it in-four o'clock; they are then withdrawn, to such a vat as it will overfill by at least but the cheese remains half an hour longtwo inches. It is also rounded up a litter undisturbed, to allow the whey to pins, the cheese placed on stone or wood-te in the middle. The cloth is then drain from it. It is then or some time on shelves or benches, and salt spread on brought over it, and tucked in at the in the evening, turned, a clean cloth is the top to within an inch or two of the edges of the vat with a small wooden put over it, and the pressing continued. edges. The cheese is turned daily, and If the lever press be used, the weight fresh salt and a clean bandage applied

> On the second day the choese is generally turned twice or three times; it is also

should be situate in the dairy, kitchen, or some other moderately warm place, o herwise the whey will be longer in discharging, and more liable on that acquires, to injure the flavour of the cheese. Another advantage of the lever press is, that in cold weather it may be ted with slag or other heavy material. They are generally fixed to the walls of the dairy, for the purpose of being staid to them, and being there most out of the way; when there is not room for them in the dairy or kitchen, they are placed in the salting room or pantry, which latter places are often much too cold for the purpose, as the whey seldom gets thoroughly extracted when the presses are in cold situations.

On the third day the cheese is again In the course of an hour from the time turned once or twice, but ought not to fsalting, the curd is taken from under require any skewering. The heaviest press is now had recourse to, and for a mer than at other times, and that the asside down, which is done on a table. In about thirty cwt, will be pressure sum-erage is 1 lb, of salt for 47lbs, of dried the first place, the angles of that side cient; but some dairy maids apply as being that weight. A cheese press of this weight, made of a block of red freestone, would be three feet and two inches long, 2 feet Sinches wide, and 3 ft. 2 in. high.

> On the fourth day, it is usual in most daries to discontinue the pressing, but in others it is continued for a day or two longer.

The cheese is then removed to what s called.

The Salting and Drying Room. - Someimes these are distinct apartments, but more generally one room suffices for both unposes. The salt can now. of course, he only applied externally; and the good, if any, effected, is to harden the coat of the cheese. The cheese I have before alluded to, as having been made with three-quarters of a lb. of salt, and which was much abore an average inquality, was removed, as an experiment, direct from the press to the cheese room.] am inclined to think this the better system, or at least that a great deal of the present labour of the salting-room might be dispensed with.

It is, however, only right to state that in most dairies of this county the practice of external salting still continues. 1 will therefore describe the process usually adopted.

The cheese is taken out of the vat, and a strong bandage, called a " fillet," about two inches broad, and long enough to go three times round the cheese, is used. underneath it, to the coat of the cheese. In some few dairies, it is the practice, before the salting above described to half immerse the cheese for two or three skewered, and clean cloths are used each days in strong brine, kept in a shallow time of turning. I would observe here, tub for that purpose. The salting prothat if any of the clothes are used again cess, above described, is continued for

lars of his salting of the curd. It is as follows :-

From the beginning of the season (about March) to the time of the cow+ being turned out to grass (12th May), the cheese remains in salt four days; from thence to the end of July, ten days: in August eight days; September six days; and the rest of the season, 4 days.

It is obvious, from the practice in this dairy, that it is considered necessary for the cheese to remain in salt longer in the middle of summer than at other sea-

After this salting the cheese is well wijed or washed, has a clean bandage put rouse 'it, and continues in the same room, c. an adjoining one, on wooden shelves for the purpose of being dried. It is turned once a day, and remains until it is considered sufficiently dry for being removed to the cheese-roum. length of time for keeping cheese in the drying room" varies from seven to twenty days, and is regulated by the temperature of the weather, or the cheeseroom, to which it has to be next removed. In hot weather, and especially if the cheese be exposed to the heat of the noon-day sun, the change from a too cold drying house (as many often are, except, in the middle of summer) to a too hot cheese-room, is calculated to cause cracks in the cheese, which said cracks have from time to time to be filled up by the application of bacon fat or whey butter otherwise mites would soon be generated, and the appearance of the cheese de-tracted from. To prevent this cracking as much as possible, the salting and drying houses have rarely, if ever, the windows opened, and drafts or currents of air are thereby prevented. This preair are thereby prevented. caution is also adopted in the cheeseroom; and, in addition, the light is excluded either by a shutter or blind, as I have before stated.

The cheese I have before alluded to, as having been made without any external sulting, as an experiment, and which was taken direct from the cheesepress to the cheese-room, was made in the beginning of June, and in the end of September was ready for the market .-The quality of the cheese was better than that made in the ordinary way, and all the labour of the salting and drying house was saved. My own impression is, as I have already hinted, that the dryingrooms are often too rold; and that if it be found to be desirable, as perhaps it may be in some dairies, to continue the use of such drying-rooms, the heat should be kept as near as possible at from 50 deg. to 55 deg. In concluding my remarks on this room, I must not omit to observe that it is necessary the cheeses should remain bandaged, in order to prevent their bulging, and also that they should be turned over once a day. If one be turned over once a day. . As this bandage is put on, salt is applied cheese be made daily, one will consequently-in the course of a certain time The bandage is fastened with strong lafter the season of chese-making-commences--nave to be re to the cheese-room. When taken to this room, the situation of which I have before described, it is usual to scrape and clean the coat of the cheese, and to place it, in the first instance, in the coolest part of the room often for a few weeks upon shelves or benches, which are cooler than the floor, subsequently on the coolest part of the floor, and ultimately upon the warmest part. It is usual to continue that if any of the clothes are used again care using for the clothes are used again dary maids highly approving, others objecting to before they have been washed and dried in the open air, great care should be taken a sit effects a saving in time and breaks the care used again to continue days, by others as long as three weeks. I will give the rule followed by the fareuse and the cheese gets into this room, and, indeed, in some daries until it is sold. It will give the rule followed by the fareuse weeks after the cheese gets into this room, and, indeed, in some daries until it is sold. It will give the rule followed by the fareuse weeks. see used for at least the first two days, mer who furnished me with the particulis also usual to turn the cheeses, and

[&]quot;It may not be out of place here to state that at may be a little increased.

Northwich, which is about the centre of the count.

On the second day the c ty, and where the principal salt-works are found, salt is at present bought at 80, per busiel of 50lbs. In large quantities the price is considerably

t The curd-mill is of recent introduction, and it

three or four months, and every alternate when you prepare it, is a very nourishing drink day afterwards; and when there are any for invalids.—Agricuturist. symptoms of cracking, bacon fat, hog's and hould be well washed with hot water and soft soap about twice a year. The temperature of the cheese-room should, when attainable, range between 60 deg, and 65 deg. When this is the case, the "first make" will generally be ready for the factor by Sept. or October, and the "latter make" by December or January; but in consequence of many rooms being badly situated and imperfeetly heated, the farmer very often does not get his cheese into the market until two or three months after these respective periods. The object gained in having the cheese-room about the temperature I have named, is three-fold; the perfect fermentation and ripening of the cheese; the reduction of labour; the quicker return of profit.

It is usual in this county to sell the cheese by what is sometimes called the "long hundred" (120 lbs. to the cwt); difficult to ascertain than the average for be eaten in half an hour. 16, price of cheese, inasmuch as both farmer and factor make the price a secret. The highest I heard of last season (1843) was bably be about 40s. or 45s - Journal of the Royal Agricultural Society of Eng.

ing the tartar of the teeth, and as like that fruit, it does not undergo the acetons fermentation in the stomach; they are therefore recommended to rheumatic and gonty patients." The raspherry forming an excellent fruit for tarts, jams, and sweetmests, and when properly prepared as a syrup, and diluted, makes a delicious and refreshing beverage, very cooling and safe in fevers

Raspberry Syrup .- To every quart of fruit, add a pound of sugar, and let it stand over night. In mosphere of a room with a second of sugar, and let it stand over night, and hour; mon vinegar is greatly improved by a very small then strain it through a flannel bag and pour into | quantity being added to it -{ German paper. bottles, which must be carefully corked and sealed. To each bottle, add if you please a trifle of brandy, if the weather is so warm as to endan ger its keeping.

The same recipe answers for Wachberries.

Raspherry Jam.-1 lb. Loaf Sugar or White Havan't Sugar, to every pound of fruit-bruise them together in your preserving pan with a sil ver spoon and let them sunmer gently for an hour. When cold, put them into glass or china jars, and lay over them a bit of paper saturated with brandy—then tie them up so as carefully to exclude the air. They will keep a year, and are better than if made after the old method, with the addition of current jelly.

Ginger Beer.-One pint melasses and two spoonsful ginger, put into a pail to be half filled with boiling water-when well stirred together, fill the pail with boiling water, leaving room for one pint of yeast, which must not be put in until luke-warm. Place it on a warm hearth for the night, and bottle it in the morning.

Beer, (from a Ludy or Weathersfield, Conn.)-20 drops of the oil of spruce, 20 do, wintergreen, 20 do. Sassafras. Pour two quarts of boiling and in all of them with but one exception, in water upon the oils, then add eight quarts of cold the first or second handful we pulled up, we water, one pint and a half of molasses, and a half discovered the larvæ or magget of the Hespint of yeast. Let it stand two hours and then battle it.

Rennet or Wine Custards .- Very simple, and prepared in five minutes. Cut a bit of Rennet about four inches square into strips, which put into a bottle filled with wine. It will be fit for use in two or three weeks. To make your custard, first warm and sweeten the milk, then stir into it a ter spaonful or fable spounful of the rennet wine, according to its strength, and pour inmediately into a pudding dish, or cups, as you prefer-put away in a cool place for an hour, and turning yellow and beginning to die. In a

wipe them with a cloth daily, for at least ran make enough, by the addition of extra wine

Tomato Catsup .- To a gallon skinned tomatos. lard, or some other fatty substance is 4 table spoonfuls salt, 4 do. black pepper, half a applied. The floor of the cheese-room spoonful at p.ce. 8 red peppers, and spoonful is generally covered with dried rushes, I mustard. All these ingredients must be ground or a coarse grass, resembling rushes, line and simmered slowly in sharp vinegar 3 or 4 called "smiddle" or wheat-straw. The hours. As much vinegar is to be used as to leave floor should be level, otherwise the half a gallon of liquor when the process is over. cheeses will not be kept easily in shape; Stram through a wire sieve and bottle, and seal from the air. This may be used in two weeks, but improved by age, and will keep several years.

> Dr. Rush's Cure for persons who have drank approdently of cold water or any cold liquid when too much heated. Doses of liquid landarum proportioned to the violence of the attack From a tea spoonful to near a table spoonful has been given before rehof has been obtained

> The best and most simple recipe for preserving Fygs —Pack them during the summer and fall for winter. Take a stone crock or firkin, and put in a layer of salt, half an meh deep, insert your eggs on the *small end*, and cover each layer of eggs with a layer of salt. If the eggs are fresh when packed, and put into a cool dry place, they will keep perfectly good until the following

Boil Salsify or Vegetable Oysters till the skin will come off easily. When you have taken it off nearly, out the roots into bits as long as an oyster; put into a deep vegetable dish a layer of but the factors often require 121 pounds per and notineg and a covering of butter as thin crumbs of bread or crackers, a little salt and pep-The price varies with the quality of the as you can cut it; then a hyer of system, till your article, the state of the market, and the dish is filled, having crambs at top. Fill the dish always sell for more per lb. than smaller with water and brown them handsomely. They ones. There is perhaps nothing more can remain two hours in the oven without injury, but with

Indian Meal Cakes .- To three pints of indian meal a piece of butter as large as an egg, and a water stirit in, then add three eggs, and milk to 72s, per cwt. of 120 lbs., or a little more make it in then add three eggs, and milk to than 7d, per lb.; the lowest would pro- make it to the consistency of batter. Half a teaspoonful of saleratus.

Whooping Cough .- A teaspoonful of castor oil London, in treating of the Raspherry, says the mixture to be given whenever the cough is The Syrup is next to the strawberry in dissolv- troublesome. It will afford rehef at once, author a few days it effects a cure.

The same remedy relieves the croup, however violent the attack."

Tincture of Roses -Take leaves of the common realso useful in the confectionary department, rose, (centifolies) place them, without pressing them, in a bottle. pour good spirits upon them. close the bottle, and et it stand until it is required for use. This inclure will keep for years, and yield a perfume little inferior to otto of roses. A few drops of it will suffice to impregnate the at-

TO CORRESPONDENTS.

T C H Subscriptions rec'd. He trust you will not desprit so soon. Where you find persons who wish to commence with a particular number, and well not take it from the first, you may receive half the price for the remainder of the volume, from the Hessian Fly. If they hope to escape it, they must study the habits of the insect.

CANADA FARMER.

June 19, 1847.

THE HESSIAN FLY.

This terrible destroyer has come upon us at last. We have just returned from a short tour of investigation in the townships of York, to Great Britain? And if this same destroy-Vaughan, and Markham. We examined er has passed over the wheathelds of the several wheatfields in each of these townships great West, what is to become of the staryremarkable for the production of this grain, ing millions of Europe ? We fear the calasian Fly. In some stalks we found as many is ten, in different stages of development. The great part were of a pale white, with a green stripe through the middle of the body; a few had torned brown, having reached what is called the flax-seed state. They are found near the root, between the outside leaves and the body of the plant. In the cases there were so many imbedded in the stalk, that the sap could not circulate, and the plant was

north of this city, we found the imagest in great interest at this time. We should be the tallest and most vigorous looking plants, Iglad if some of our subscribers, at a distance in the rankest spots in the field; but more from Toronto, would make examinations in frequently they were found in the small, their respective townships in reference to this weakly stalks which had the appearance of all-important subject, and send us the result being winter-killed, though it is more likely they owed their sickly appearance to the presence of these insects. Nearer this city, some fields which two weeks since looked which naturalists have placed in the family of healthy, and promised no unusual crop, have turned of a pale yellow colour, the leaves look stiff and staring, and it is doubtful if the owners will get their seed, to say nothing of their brend. While the effects of these destructive insects had become so plain that some farmers in this vicinity were ploughing up their wheat in order to sow other gram, others a little further north had not discovered them at all. We were informed that Mr. Snider, in the Township of York, was about to plough up ten acres of spring wheat, so completely had this dreadful devastator done its work. This circumstance proves that the egg has been deposited this soring, in the case of spring wheat at all events. Though if it be true, as has been asserted by some who have studied the habits of this msect, that the worm or egg is deposited in the seed and not in the stalk, it is not necessary to suppose that the fly has been abroad this spring. If this theory were true in the negatire as well as the positive part of the proposition, namely, that the egg is " not deposited in the stalk or culm," a protection against the ravages of the Hessian Fly might be found in a careful selection and preparation of seed. But we should like to know how it tenspoonful of salt. Put two tencopsful of boiling happens that it appears in wheatfields grown from seed produced on the same farm for years, where until now there were no signs of its presence? Does the fly penetrate the mow or stack, or does it find its way into the to a tablespoonful of molasses; a teaspoonful of bin? We think not. Then it can only be in the field before the wheat is cut, that the seed is accessible to the fly, which must be furnished with an ovipositor that will penctrate the chaff and skin of the kernel, otherwise the egg would be destroyed. But it does not appear that the insect is so furnished, and therefore this supposition seems not well-founded. This theory, put forward by a Miss Morris, of Pennsylvania, and mentioned in the following article, is proved to be untrue by an abundance of evidence. The fly deposits its eggs upon the leaf, whether it does so in the seed or not, and therefore it will be unpossible to get rid of it by anything we can do with respect to the seed merely. Last year the grain worm or weevel injur-

ed the wheat in this district to a considerable extent, but nothing like what, we fear, may be expected from the Hessian Fly, that terthe earlier numbers. You have a strong argu-ment for the farmers to take an Agricultural for the first time we believe in this part of paper, in the farmers to take an Agricultural for the first time we believe in this part of paper, in the fearful calamity that is before them. I the country, makes its most unwelcome apthe country, makes its most unwelcome appearance. One-third of the wheat crop in many places has been winter killed, and we have every reason to fear that another third will be destroyed by the fly; upon the remaining third we must subsist ourselves, and the thousands of emigrants who are off every bushel we can spare of last year's crop) and after we have done this, where will the surplus be which we are to export mity is yet to come, and that we shall not long be suffered to occupy the position of placed in the longitudinal cavities of the mere speciators. A lady in this vicinity has blades of the wheat; their appearance being mere spectators. A lady in this vicinity has just received a letter frem two sons who are farming in the State of Illinois, and they write that the farmers in their neighbourhood are ploughing up their wheat and planting corn in its place, in consequence of the ravages of this insect. We have not yet observed statements of this kind in the papers from that quarter, and we hope it may not be general, (but see page 83.)

We publish the following article from

one belonging to Mr. Davis, about time miles with, and will, we doubt not, be read with for publication :-

" One of the most formidable enemies of the wheat crop in the United States, is the for famed Hessian fly, a small goot or molge gall-grants (Cecidomyradic). The insects of this family are very numerous, and most of them in the magget state live in galls, or unnatural colargements of the stems, leaves, and buds of plants, caused by the punctures of the winged insects in laying their eggs. The following account of the Hessian fly, the dread of farmers wherever wheat is cultivated in North America is chiefly taken from Harris's Report on Destructive Insects, and Her rick's valuable paper upon this insect, published in Silliman's American Journal of Science, vol. 42. The brief listory of the limbits and transformations of the Hessian fly will be found to agree essentially with the excellent observations on this insect, written in 1797, by Dr. Isaac Chapman, and published in the Memours of the Philadelphia Society for Promoting Agriculture.

"The head and thorax of this fly are black. The hind-body is tawny, and covered with fine grayish hairs. The wings are blackish, but are more or less tinged with yellow at thbase, where also they are very narrow: they are fringed with short hairs, and are rounded at the cud. The body measures about one tenth of an inch in length, and the wings expand one quarter of an inch, or more. Two broods or generations are brought to mature ty in the course of a year, and the flies appear in the spring and autumn, but rather earlier in the Southern or Middle States that. in New England. The transformations of some in each broad appear to be retarded beyond the usual time, as is found to be the case with many other insects; so that the life of these individuals from the egg to the winged state, extends to a year or more in length, whereby the continuation of the species in after years is made more sure. It has frequently been asserted that the flies lay their eggs on the gram in the ear; but whether this be true or not, it is certain that they do lay their eggs on the young plants, and long before the grain is ripe; for many persons have witnessed and testified to this fact. In the New England States, winter wheat, as it is called, is usually sown about the 1st of September. Towards the end of this month, and in October, when the grain has spronted, and begins to show a leaf or two. the flies appear in the fields, and having paired. begin to lay their eggs, in which busines they are occupied for several weeks. The following interesting account of the manner in which this is done, was written by Mr Edward Tilgaliman, of Queen Ann county Maryland, and was published in the eightic volume of the Cultivator, in May, 1841. By the 2nd week of October, the first sown wheat being well up, and having generally put forth its second and third blades, I resorted to my field in a fine warm forenoon, to endea vour to satisfy myself, by ocular demonstration whether the fly did deposit the egg on the blades of the growing plant. Selecting a favourable spot to make my observation, i placed myself in a reclining position in a furrow, and had been on the watch but a minute or two, before I discovered a number of small black flies abghting and sitting on the wheat plants around me, and presently one settled on the ridged surface of a blade of a plant completely within my reach and distinct observation. She immediately began depositing her eggs in the longitudinal cavity between the coming among us, (for we are sending little ridges of the blade. I could distinctly see the eggs ejected from a kind of tube or sting. After she had deposited eight or tea eggs, I easily caught her upon the blade, and wrapped her up in a piece of paper. I then proceeded to take up the plant with as much as I conveniently could of the circumpacent earth, and wrapped it all securely in a piece of paper. After that I commenced my observations on the fly, caught several similarly consied, and con that of minut, reddish specks. My own mind being thus completely and fully satisfied astothe mode in which the egg was deposited. I proceeded to my awelling and put the plant with the eggs upon it is a rege glass tumbler. adding a little water to the en. and secured the vessel by covering it with pape, so that no insect could get access to the interior. The paper was sufficiently perforated with pin-holes for the admission of air. The tumbher with its contents was drily watched by myself to discover the lutching of the eggs. about the middle of the fifteenth day from "Johnson's Encyclopædia;" it contains the the deposit of the eggs, I was so fortunate as grate natineg on them. The whey, of which you field belonging to Mr. Shepherd, and also in most recent information that we have met to discover a very small magges or worm, of able activity down the blade, and saw it till it disappeared between the blade and stem of the ains of the leaves around them. This I have no doubt, was the produce of one of the eggs, and would, I preplant remained in the fill It was my intention to have carried on the experiment, by endeavouring to hatch out the insect from the ed in a letter to John S. Skinner the editor of and identical in app arams with others recently received from Virginia.

"Dr. Chapain agrees with the writer, in the small creases of the young leaves of the not pass so far down the side of the stems as repeatedly both in autumnand spring, seen the Hessian fly in the act of d positing eggs on wheat, and have always found that she selects for this purpose the leaves of the young plant. The eggs are laid in various shaped portion (or blode) of the leaf. His they might have been imported in straw remaks in Professor Sillman's Journal are from a foreign country. In the winged state, to the same effect. Other authorities on this point might be mentione; but the foregoing netive, and, though very small and seemingly fact, that the Hessian fly lays her eggs on the tance in scarca, of fields of young grain.leaves of wheat soon diet the plants are up. The number on a single leaf' says Mr. Hertiftieth of an inch I mg, and four thousandth of an inch in diam for sylinderical trans-lucent, and of a pale red colour.' Mr. Tilgh-by mountains or rivers. On their first appearman was correct in supposing that the eggs lance in Pennsylvania, they were seen to pass favourable circumstances, for, if the weather be warm, they co non only hatch in four days after they are laid. The maggots, when they first come out of the shells, are of a pale red colour. Forthwith they crawl down the buf, and work their way between it and the main stalk, passing downwards till they come to a joint, just above which they remain a little below the surface of the ground, with the head towards the root of the plant. Havmg thus fixed themselves upon the stalk, they become stationery, and never move from the place till their transformations are completed. They do not eat the stalk, neither do they penetrate within it, as some persons have supposed, but they he lengthwise upon its surface, covered by the lower part of the leaves, and are nourished wholly by the sap, which they appear to take by suction. They soon lose their reddish colour, turn pale, and will be found to be clouded with whitish spots; and through their transparent skins a greensh stripe may be seen in the middle of their bodies. As they increase in size, and grow plump and firm, they become imbedded in the side of the stem, by the pressure of their bodies upon the growing plant. maggot thus placed seldom destroys a plant; but when two or three are fixed in this manner around the stem, they weaken and impoverish the plant, and cause it to fall down, or to wither and one. They usually come to their full size in five or six weeks, and then meas are about three-twentieths of an inch in length. Their skin now gradually hardens, becomes brownish, and soon changes to a bright chesnut colour. This change usually happens about the first of December, when the insect may be said to enter on the pupa state, for after this time it takes no more nourishment. Mr. Herrick informs me, that the brown and leathery skin, within which the magget has changed to a pupa or chrysalis, is long, egg-shaped, smooth and marked with eleven transverse lines, and measures one-eighth of an mich in length. In this form it has been commonly likened to a flax-seed. It appears then from the remarks of Dr. Chapman, Mr. Herrick, and other careful observers, that the maggots of the Hessian fly do not cast off their skins in order to become pupae, wherein they differ from the larvæ of most other gants, and agree with those of common flies; neither do they spin cocoons, as some of the Cecidomyians are supposed to do. Mr. Herrick, in one of his letters, cbserves, that 'the papa gradually cleaves from the dried skin of the larva, and, in the course of two or three weeks is wholly detached from it. Still enclosed within this skin. which thus becomes a kind of cocson or shell for the pupa, it remains throughout the winter, safely lodged in its bed on the side of the stem, near the root of the plant, and protected from the cold by the dead leaves. Towards the end of April and in the forepart of May, or as soon as the weather becomes warm enough in the spring, the insects are trans- expenditure of force or money; and the dif- and where it is a matter of chance more than black load mixed with Land. They make their escape forences between the force expended and rule what operations should succeed each mixed with Land.

through one end of their shells and the rem

"Very soon after the flies come forth in the duce of one of the eggs, and would, I pre- spring, they are prepared to lay their eggs ame, have hatched much sooner, had the on the leaves of the wheat sown in the autumn before, and also on the spring sown wheat. that begins, at this time, to appear above the surface of the ground. They continue to flax seed state into the perfect fly again; but come forth and lay their eggs for the space bong called from hom, the plant was suffered to three weeks, after which they entirely discrete perish. The fly that I caught on the appear from the fields. The maggets hatchblade of the wheat, as above stated, I enclosed from the fields. The maggets batched an latter to below 5 ed from these eggs pass along the stems of the wheat, nearly to the roots, become stationthe American Farmer, of Bultimore, who ary, and turn to pupe in June or July. In pronounced it to be a genuine Hessian fly this state they are found at the time of harvest, and when the grain is gathered, they remain in the stubble in the fields. To this, however, as Mr. Haven remarks, there are saying that the Hessian fly lays her eggs in some exceptions; for a few of the insects do wheat. Mr. Havens, in an article on this in- to be out of the way of the sickle when the seet, which will neam be referred to, states, grain is reaped, and consequently will be that the fly lays bir eggs on the leaves. In gathered and carried away with the straw, the fortieth number of The Connecticut Most of them are transformed to flies in the Parmer's Gazette. Mr. Herrick says, *I have autumn, but others remain unchanged in the stubble or straw till next spring. Hereby says Mr. Havens, 'it appears evident, that they may be removed from their natural situation in the field, and be kept alive long enough to be carried across the Atlantic; numbers on the upper surface of the strp- from which circumstances it is possible that re sufficient, in my opinion, to establish the feeble, are able to fly to a considerable dis-Their principal migrations take August and September in the Middle States. tick is often twenty or thirty, and some-times much greater. In these cases many of trons earlier than in New England. There, the larve must perish. The egg is about the too, they sometimes take wing in immense swarms, and, being probably aided by the wind, are not stopped in their course either would hatch in less than fifteen days, under the Delaware like a cloud. Being attracted favourable circumstances, for, if the weather by light, they have been known during the wheat harvest, to enter houses in the evening in such numbers us seriously to annoy the in-

" Various means have been recommended for preventing or lessening the ravages of the Hessian fly; but they have hitherto failed, either because they have not been adapted to the end in view, or because they have not been universally adopted; and it appears doubtful whether any of them will ever entirely exterminate the insect. It is stated in the before-mentioned report to the Philosophical Society,' that Miss Morris advises ob-taining 'fresh seed from localities in which has not made its appearannce,' and that by this means the crop of the following year will be uninjured; but in order to avoid the introduction of straggling insects of the kind from adjacent fields, it is requisite that i whole neighbourhood should persevere in this precaution for two or more years in succession."—Harris.

It seems to be generally admitted that the variety of wheat called Mediterranean, introduced a few years since into the United States where it is now extensively cultivated, resists the attacks of the Hessian fly. Hence it may be sown very early in the fall, long before it would be safe to sow the common varieties, by which another great advantage is gained, in its escaping the rust and mildew so upt to affect crops which are backward in the time of ripening."

TO DRY COWS OF THEIR MILK.

In looking over a file of the Dublin Farmer's Gazette, we met with the following recipe, which may sometimes prove useful. A case occurred the other day, in which we would have tested its efficacy ourselves, had we been aware of its existence. It is stated that in using the following it is not necessary to have recourse to bleeding or purging :-" Let the cows be milked dry, then take four ounces of old tallow, two ounces beeswax, half a pint of vinegar, six ounces spirits of turpentine, and half a pint of tar; boil these together for 15 minutes over a slow fire, let e mixture cool, then rub the udder and milk veins of the cow with it, and she will become dry in three days. There's no restriction of food, and the cows may be allowed to eat anything they choose. The above has never been known to fail, and the quantity is sufficient for six cows."

SYSTEMATIC FARMING.

It is the object of systematic farming to accomplish the greatest results by the smallest expenditure of force or money; and the dif-

a red lish cast, making its way with consider from their winter quarters by breaking the result obtained being a constant measure other. When all the parts of farm work are of the gain acquired, it ought ever to be the sole end and aim of the farmer to produce effects proportional to the means employed. It must not, however, be supposed that a saving of labour is equivalent to a saving of money. So far from this being the case, the very opposite is found true in practice, viz.that the profit is more dependant upon the amount of properly directed labour bestowed, than it is upon the comparatively trifling saving effected by withholding what is absolutely necessary for bringing the soil to its highest possible pitch of fertility. It is quite evident that a maximum result can never be obtained in any case, where farming is conducted in a hap hazard manner, subject to no rules either of experience or science; there must be an adaptation of means to an end, otherwise disappointment and loss are sure to follow, On every properly conducted farm we invariably find, that some system or other has been adopted suited to the nature of the soil and chinate, and which reflective experience and sound principles of science have pointed out as the one most likely to produce the greatest effects that the causes set in operation are capable of. The first step towards systematic farming is, the adoption of such an alternation of crops as is suited to the physical condition and chemical properties of the soil, and or cleavage furiows. When a good farmer technical properties without destroying its fertility. Very different rotations must be adopted in a country where its geological formation is characterised by dissimilarity; yet, notwithstanding this difference, there is one common object that must be kept in view by all in the selection of any particular mode of cropping, viz, to bring the soil into a condition in which it will produce the various crops, whether grain, grass, or roots, which may be necessary and profitable to raise. The following remarks from an Irish agricultural paper of high standing, are in most respects as applicable to this country as to Ireland :--

"The farmer, on a light dry soil, experiences no difficulty in growing potatoes and turnips, but he is very often disappointed in his wheat crop; on the other hand, on a heavy retentive clay soil, he succeeds in wheat and fails in green crops. It was thought at one time impossible to remove or alter these physical conditions, so characteristic of light and heavy soils, yet the progress of enlightened agriculture has effected an approximation to a common condition, in which the one is enpable of producing fine crops of wheat, and the other equally good crops of turnips; and this has been effected by means of two systems peculiar to the farming of the present day, namely, sheep-folding on light soils, and thorough-draining and subsoiling on heavy clays. In the one case it was necessary to consolidate the soil, in the other to loosen it: sheep-folding has effected the one, and the Denuston system the other.

"These improvements have led to the establishment of a more uniform system of farming, and one under which a rapid increase of produce, instead of being detrimental, has proved highly conducive to the fertility of the soil. To carry on a regular system which will embrace within it every department of farming, it is necessary to have a due proportion of the different cereals. leguminosæ, and also green crops, such as turnips, potatoes, mangel-wurzel, and carrots the two former supplying dry litter and fodder, while the others yield saccharine, amy laceous and albuminous food for fattening bensts and milch cows. The excrement of these animals returns to the soil in an altered and prepared form, nearly the whole constituents of the preceding crop, thus furnishing to a new one materials out of which it may be re-produced; the only loss sustained being those portions carried off the soil in the grain, fut cattle, and other commodities sold; these however, can be replaced, either by manures or the extra food bought in. In a system of this kind, the great matter is to have the mouths to plants.—[Tull. stock of beasts kept on the farm, in a due proportion to the food upon which they are to be fed; for whenever that food falls under what is requisite for keeping those animals in a healthy growing condition, a loss is sustained equal to twice the amount of the food that would have been necessary for a full supply.

" In those parts of the country where farming has been reduced to a system, the whole operations are necessarily carried on much more expeditiously and cheaply than others where no plan has been organized. and where it is a matter of chance more than

properly apportioned, and each man knows what he has to do, and expected to perform, the work goes on with the regularity of a muchine, time is economized, and the work is executed in a proper manner. Again, it is a matter of some moment to a farmer, to have a considerable variety of crops growing on his farm, because by being wholly dependant upon one particular crop the risk of losing in very much increased. Many extensive potato and wheat growers have been ruined by failures of these crops: [The truth of this remark, made two years ago, has been illustrated with awful force in the distress of millions, and the actual death of more than fifty thousand of the inhabitants of that unfortunate country. Let us take warning .-The farmers of Canada are directing their attention too much to the production of one crop, wheat. A combination or coincidence of such accidents as a bad winter, the Hessian Fly, the grain worm or weevil, rust, and an influx of 200,000 starving emigrants, may tench us too, a fearful lesson.] besides, the constant cultivation of any particular crops to the exclusion of all others, necessarily exhausts the soil and impairs its powers of production.

" Another point worthy of notice in sysforms, his first employment is to root up all these unseemly crooked, and worse than useless fences, and to lay out the land in neat suitable-sized fields, having as few nooks and corners in them as possible, so that the plough may have access to every portion of them: when this has been accomplished systematic farming may be said to have commenced. The loss sustained by uscless fences and ditches has been made a matter of calculation in various parts of England; and n writer, Mr. Grant, in the last number of the Journal of the Royal Agricultural Society of England, has made the following calculations of the ground occupied by hedges in ten parishes in different counties in England :-

". The result of the examination of ten parishes, containing 36,976 acres, being an iverage size of about 3,700 acres, is, there are 1651 miles of hedge: about half as long again as the famous wall of China; or sufficient to hedge round the whole of England with an immense bank of earth, and occupying 2,642 acres; being 1 1-7th per cent, or one acre in 14."

PULVERIZING THE SOIL.

To demonstrate that dews moisten the land when fine, dig a hole in the hard dry ground, in the driest weather, 24 deep as the plough ought to reach; beat the earth very fine, and fill the hole therewith; and after a few nights' dews you will find this earth become moist at the bottom, and the hard ground all round will become dry. Till a field in lands make one land very fine by frequent deep ploughing, and let another be rough by insufficient tillage alternately; then plough the whole field crosswise in the driest weather, which has continued long, and you will perceive, by the colour of the earth, that every fine land will be turned up moist, but every rough land will be dry as powder from top to hotttom. In the driest weather, good hoeing procures moisture to roots; though the ignorant and incurious fancy it lets in the drought, and therefore are afraid to hoe their plants at such times

There is yet one more benefit hoeing gives to plants which by no art can possibly be given to unimals; for all that can be done in feeding an animal is, to give it sufficient food at the time it has occasion for it; if you give an animal any more, it is to no manner of purpose, unless you could give it more mouths, which is impossible. but, in hoeing a plant, the additional nourishment thereby given enables it to send out innumerable additional fibres and roots; so that hoeing, by the

Brittania Ware should be first robbed with a woollen cloth and sweet oil; then washed in water and suds, and rubbed with soft leather and whiting. Thus treated, it will retain its beauty

Ter for greasing waggons, we think an absurd article. In the hottest weather it soon gums up and becomes adhesive, and in cold weather is always so. Wherever iron axle-trees are used, black load mixed with grease is best .- or Flour

Civil and Social Department.

WHAT THE FARMERS EXPECT FROM PARLIAMENT.

Nay, start not, gentle reader, we are not about to read you a homily on party politics The Parliament have a duty to perform, and to this duty involving as it does the substantial interests of the country, we shall refer without crossing the path of any man's political prejudices. The measures most required. have been rendered necessary by the recent movements in commercial legislation in England, by which the commercial relations between us and the mother country have been entirely changed. We must take steps to prevent our suffering by a movement which we did not originate and could not have controlled. Whether the sweeping changes that have been effected by Peel's commercial legislation, were the offspring of a physical necessity or not, it would be a waste of time to endeavour to determine. It is enough for us tered thereby. England has latherto protected our gram, or in other words, admitted it rato her markets on more easy terms than the products of Russia or the United States, or any other foreign country. And we in return protected her manufactures, that is we adinited them on more easy terms than the manufactures of France or the United States. acts of protection, or whatever else they may being imported into this Province pay a great- lators. foreign countries, than those which are the 1s understood, their repeal is very generally ble to judge of as to extent the produce of English labour. If a farmer desired. And it is natural that it should be 110w all these emigrants will be absorbed er duty by 7 per cent, if the produce of | So far as the question of Navigation Laws

differential duties, and this the country hopes that an address from that body on the here, and especially on new farms. expects Parliament will do before the present subject would be cheerfully responded to by actsion closes. A measure having in view her Majesty's government, this object has indeed been promised in the royal speech. A duty for the purpose of creating a revenue will continue to be levierening a revenue was common as de leviThe emigration to Canada this year, is most the interns of detects of the present
Mozzie at. Basic.—The following gentlemen
common School Law. It is complained have been elected Directors of the Montreal Comwill be placed equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles, with the emigration of any previous year. It has opened equally upon all articles are all artic bare been produced. This is what Colden an asylum on the shores of Canada during the whatever may be the changes in the personnel ton William Lyman, Joseph Ross, D. P. Ross, and what the new extinct Anti-present year; and it has also been calculated of government. When the tinkering process W. T. Whitehead, Joseph Valles. Application will be made to the Legislature for an increase to the Capital Stock of the Bank in the sum of But there are others who me'ude in their ideal grants who come from Ireland, nearly 10 per way of suggestion. It is discouraging and 12200,000.

duties and custom houses. When these are abolished, some other mode of taxation must cessary to raise a revenue by which to earry on the government. The only questions that arise are, by what means can the necessary revenue be raised without injustice to any class of the community; what mode of taxation is attended with the least expense of colif it could be proved that this mode of taxa- without coffins. tion would be attended with the least expense of collection, there is a prejudice in the minds of the people, especially in Lower Canada, against its adoption, which would require constant exertion for several years to erndicate. It is not expected that anything that they have been made, that we cannot of this kind will now be attempted. Our unmake them, and that our interests have present difficulty will be got over by the abo been affected, or our commercial position al- litton of all differential duties. If this be neglected or prevented by faction, the interests of the country will suffer severely. It is the duty of every member of the legislature to support a measure having in view the accomplishment of this object.

There is a general feeling throughout the whole country against the granting of large tracts of lands to companies of any descrip-To compare the results of these reciprocal tion, under any pretence whatever. The be called, would require a statistical calculate people; and if there be a case in which the tion, which, for want of the necessary mate-1 whole people should be consulted, it is on sities of the future. England has withdrawn This would work out the improvement of the would be manifestly unjust. But she de- public opinion in the country, that the system necessity that will drive them to America,-

EMIGRATION.

of free trade the entire abolition of customs cent will die either on the passage or almost humiliating to think, that our legislators are immediately after landing. And this predict spending their time and our money (£1000) tion,awful as it seems, actual ocurrences show (per day) in taunting each other with former be resorted to; for in every country it is no the fearful possibility of being realized. At the huppenenes; one tearned gen terms calling Grosse Isle, the quarantine station, where the another learned gentleman a "rat," and a sick are landed instead of being allowed to "dancing bear," and he in return suggesting come up to Quebec, a counterpart of the hppopotamus as a more appropriate worst horrors that have afflicted Ireland may animal, and telling his opponent that he was be seen, and on a scale immensely large. $|\Lambda|$ neither so handsome nor so clever as a horse! Quebec paper of the 11th, states that during Shame on such vulgar, unprofitable, unparlection; and if the best mode of taxation be the previous week there had been 2000 cases humaniany conduct. While the dusty records determined upon, have the people no preju- of undigonal disease; the horiors of which of the lost century are causacked for the prediers that will be a bar, for some time, at are greatly augmented by the undequicy of cedent of a man being appointed Solicitorleast, against the application of that mode? the accommodation prepared for their recep- General of Scotland at the age of twenty-If customs duties are abolished, direct taxa. tion. Up to the 11th mst. more than 1000 one, the volumes which record the progress tion must be substituted in their place. But had been buried at Grosse Isle, many of them of intelligence among the people of other

> On the 3d June were buried 100. 5th do do 105. 7th do do 80.

A hundred funerals a day and many of the bodies thrown coffinless into the grave! This is awful. We may indeed consider ourselves fortunate if the seeds of disease that have been imported do not scatter themselves thro' the country, and carry off a large portion of the inhabitants. This, with the atmost care, it will be extremely difficult to prevent.

The law enacted by the Senate of the United States for repelling pauper emigration from their shores, will turn the current toward Canada; so that a greatly increased emigration is inevitable. Already has one vessel freighted with human beings been driven from the Shores of republican America, and sought republic lands are merely held in trust for the fuge in Nova Scotia. It is certain that Nova Scotia is not in a condition to receive any considerable number of Emigrants who do rials, it would be difficult to make, and which the proposition to make grants of public not bring with them ample means to provide after all, would be rather curious than useful. hands. If it be desirable to facilitate the set- for their own necessities; it is indeed doubtful It would be retrospective; an inquiry into cir- thement of the waste lands of the crown, why if they can, without danger of suffering starcomstances which have ceased to exist. We not throw them open on terms that will at- variou go there even with means. A despatch must gain a thorough knowledge of our pres- tract the attention of individuals, not of from the Governor to Furl Grey states that, ent position, to enable us to meet the necession companies, who will become actual settlers? from the failure of the crops during the two her protection, and we shall hereafter have no country, and people it with a happy and conlast seasons, Nova Scotia is not in a condition advantages in her markets over the wheat tened, because industrious and thriving, pop-1 them the means of supporting themselves for grower of any other country. Whatever the ulation. It is not within our province, but two years. The class of emigrants this year Russian or the American can afford to sell his belongs to the statesman, to say on what terms will consist mainly of persons whom poverty wheat for in Liverpool and London, that and in what manner this shall be done, and drives from their native shores. A voyage to must we be content to receive for ours. We how the revenue arising therefrom can be Australia would require an outlay altogether should have reason to complain, if England in best made available for the advancement of beyond what their limited resources could aftaking from us a specific commercial advanthe real interests of the country; our duty ford; if indeed they had the inclination to sail tage, required us to continue to give her a as the conductors of an agricultural journal. 13,000 males to Australia instead of 4000, to special privilege. Such want of reciprocity begins and ends with giving expression to the Canada. Kept from Australia by the very sires to take no advantage of us in this resof granting public lands by wholesale to repelled from the United States, and with no
pect. She has given us as a matter of uncompanies should be discountenanced by Parchance of finding food for their labour in Nodoubted right, and without solicitation on our hamont. This opinion seems to be intimated va Scotia, the great body of the emigrants, part, the power to pass a law to enable us to by associated with a wholesome fear of the especially of the poor ones, will come to Cupurchase our manufactures in any market injurious effects of landed monopoles. It is mada. Previous to the sailing of the steamer where we can buy them the apest. The du-generally believed, and we think not without before last, 40,000 emigrants had left Engty of our Legislature, under these circum- reason, that land companies retard rather land, Ireland and Scotland for Canada; and stances, is clear. There are many articles than facilitate the settlement of the country, to what the whole number may swell it is the use in almost every family, such as cotton, by enhancing the price to actual settlers and impossible to say, but it will inevitably be woollen and linen manufactures, which on putting the profits into the pockets of specu- very large. Such is the present appearance of things ;-what the future will disclose it is

wants to buy any one of these articles, he so, for every penny which these restrictions it is utterly impossible to tell; and at whose must pay the augmented price for it. These imposed by the Navigation Laws enhance expense the unemployed will be fed may beare called discriminating or differential duties the price of freight or produce, is so much come a serious question. We shall not now because they descriminate or make a distinct taken out of the farmer's pocker. What is attempt to give more than one suggestion, som between goods produced in to eign count the nature of the instructions which the pro- and that is that every one should be on his tries, that is out of England, and those pro- vincial government have received on the sub- goard against deluding the emigrants, by duced in England. Now it needs no argue ject, has not yet been developed, and we can holding out to them hopes of high wages. In ment to prove that all discriminating duties have no means of judging. If Parhament no country is a crowded labour market comhas not the power to do so, we have strong with the labour that has to be performed

COMMON SCHOOLS.

We cannot at this time enter far either The emigration to Canada this year, is into the merits or defects of the present

countries, and the causes, the "ways and means," and the consequences of that progress, are left unopened; the indicia of advancement in knowledge, civilization, and social Imppiness that is taking place all around us, are unobserved; the accumulation of ignorance from "home production," and by importation," rapid though it be, yet not so fast as the necessities for its removal, awakens no attention, excites no alarm! The public lands may lie unproductive, the public schools may be neglected, the advantages of improvement and scientific discovery may be locked up from the masses; the clumsy machinery of an ill-contrived, defective law-the joins product of clerical corruption and legislative stupidity may continue to give dissatisfaction, but what of all that ? A few lawyers-n few professed politicians—have secured their salaries: they have got a majority!

We tell our public men, we care not to what party they belong, that these things will not be tolerated. They must study the wants of the country, and must devote their energies and the means, which the people have placed at their disposal, to supply them.

The 'one thing needful in the School Law. which has heretofore been entirely overlooked, is the introduction of AGRICULTURE as a subject of study. In considering the amendments required, we hope our Legislators will look to the example of Scotland, Ireland, and the United States on this point. We shall give them some information in a future numnumber.

COPPER AND SILVER MINES OF LAKE SUPERIOR.

The first arrivals from Lake Superior have brought down a number of individuals who have during the winter been prosecuting their works in the search of mmeral. All of our previous accounts are nothing in comparison to the accounts now given of the immeral wealth of that region. When we predicted a short time since that this region would be able to supply the world with copper at much ess price than Cornwall, we had not unticipated there were large deposites of silver, rivaling the mines of Mexico.

We yesterday had the pleasure of seeing Mr. Thomas C. Childs, the agent of the Bruish North American Mining Company, who is on his way to Montreal with several casks of imperal taken from the location known as the " Prince Location," and from the vein discovered by Col. Kinsie the last session, on Spar Island. It has been traced to the main shore, where the specimens now here were obtained. The inneral is a vein stone strongly charged with metalic silver. It is associated with calcurious spar, quartz, surplinte baryte and cloud or vein stone. The specimens of silver from the south shore those found by Mr. Chals on the north shore. and to prove that all descriminating duties have no means or judging. It is a country is a crowded most, and the minimum patible with high wages; and the minimum brated mines of Durango and Chihuahua, in the duty amounts to; whether it be ten or interest by removing every restriction to the stree navigation of the St. Lawrence. If it the labourors being necessarily unacquainted the labourors being necessarily unacquainted them. All the indications in that country have a very strong resemblance to the labourors being necessarily unacquainted them. All the indications in them. All the indications in them. would lead us to believe there is mineral wealth beyond calculation almost; but at the same time it would not be amiss for those who are engaged in mining to remember that there is much uncertainty in mines .- [Det. Free Press.

CONTENTMENT. BY JUHY SWAIN.

Content be mine, though poor my lot With wealthy ones compared: Much richer blessings have I got Than invenda ever shared : Water and air, an I sunlight free. Daily to all me sent; Deserved they never were by me,— Lought to be content. 1-like the hare-have many friends, Unlike the hare's they're true: And mercy on my soul descends From Heaven like honey dew: Should trouble to ue, as comes a flood "Pwould be with blessing blent; What is it might report the good? What is it? document.

When did of peace the pleasant calm And rade repunng blend /
Did marmaring ever breathes balm
A troublous time to end ! In tribulation or in wealth,
Or whatsue'er is sent;
Proof art thou of the spirit's health,
Angel of peace—Content.

Give me the skill to thyme a song, And sing it for a friend; And hope to help the heart along To a calm and peaceful end; Whatever else may be demed, Whatever else is lent; Do thou my spirit calmly guide, Angel of peace—Content.

Literary Department.

GROWTH OF THE WEST.

The unexampled rapidity with which the Western States of the America Union have been peopled, is thus described by Mr. Anson Burlingame at a meeting held at Boston a few days ago:-

In times past you have stood too much aloof from the people of that region. They have not been unmindful of the fact, nor backward in proclaiming the apparent neglect. The West, heretofere, has suggested to your minds only border strifes-lawless mendian wrongs, and the fur trade, with all its wild and stirring incidents.-You have never contemplated it as a region of commerce and the home of civilization; you have looked upon it as a land of romance, and your interest in its history declined with the destruc-tion of the fur trade, and with the going out Lakes of the North; when, in fact, with these events, its true and noble lustory began. Then the pioneer went to war with the wilderness, and lo! the triumphs of the axe and the plough. Your attention, until recently, has not been turned towards the West. It is true, a neighbour of yours may have gone there, but as the mighty tide of emigration has no refluent wave, you have scarcely learned how he forced in that new and far off land. Of the political importance of the West, you have learned more. You have the blue Mediterranean. I say we ought to filt it in Congress—there it has spoken its feel an interest in the West, a higher than manly eloquence, and sometimes seized, with pecuniary interest. I know that Massachustrong hand, the sceptre of power; there have shone its bright stars—its Clays, Cent-tendens, Corwins—its Bentons, its Allens, its tendens, Corwins—us Bentons, its Allens, its thankful for it, shown a disposition to with-Marshulls, its Whittlesseys, its Howards, hold from the West its share of the common and its Ewings. These have spoken words fund, and I believe she is now willing to cowhich have been felt in our country's destmy. I say you cannot have been indifferent to the political strength and influence of the latter its long withheld rights. West; but have you, until quite lately, comprehended the vast commercial resources of that region? Of these you are now com-pelled to take notice. Every paper that comes to us tells of the mighty energy of the West. One speaks of a line of canal boats fifty-three miles in length; another tells us a ship has just left Chicago, spread its white wings to the western breeze, and that it is to find no rest for its keel until the flag of our country shall wave in the port of a foreign of the city by the American army: land; another still tells us that there are at this moment ten millions of people in the great valley of the Mississippi. How can it be? we exclaim. Fifty-eight years ago the first settler in Ohio, in the person of Dr. Cut-turies before its conquest by Cortez. The ler, of Beverly, Mass., hade adien to his location is near the Luke Tezeuco, the waters years ugo, had scarcely an inhabitant. Now, Europeans in either hemisphere. With the more than three hundred thousand warm hearts are beating upon her soil, and her sons count upon the profits of their ample fields, in the year that is past, in eight millions of the capital of New Spain for the uniform bushels of wheat. Such has been the growth level of the ground on which it stands, for the of the whole West. A few years since, in a birchen canne, I was paddled all along the extent of the public places. The architecture shores of Wisconsin, from Chicago to Green is generally of a very fine style, and there are Bay-a distance of several hundred mileswas my good fortun to go along the same buildings an air of solidity, and sometimes of shore, and over the same waters, and I passed the large towns of Sheboygan, Southport all of Biscay iron, ornamented with bronze; and Racine; and when, far off on the waters and the houses instead of roofs, have terraces, what have we gained, or are likely to gain, by and falling gracefully over the shoulders.

wanker, looking like a sea sybil, with its "tiara of proud towers"-but I cannot describe the changes that has take place on the Lukes, in the brief time allow me. The traveller may leave Buffalo to-day, in one of the lake steamers, and in seventy-two hours the keel of this noble vessel shall scrape the golden sands of Illinois—nearly eleven hundred miles to the Westward. His eye will have gazed upon five of the States of this Union, as well as upon the possessions of Queen Victoria. In 1815 appeared the first steamboat upon the Lakes; now there are more than 100 of the largest class-and the Griffin, of 70 tons, hunched by the daring La Salle, in 1769, has multiplied, until now the Lakes are white with sails, and literally murmur with the rush of keels. The commerce of the Lakes, at this time, may be safely estimated worth 150 millions of dollars per annum-requiring the constant employ-ment of over three thousand sailors, as brave as ever dwelt on the ocean, and who would be as efficient if summoned to the gun deck. The cities of Detroit and Buffalo have more tons of shipping affoat than are owned in the four planting States of North and South Carolina, Georgia, and Alabama; and these are but two of the seven cities along the Lakes. It is estimated that there are in the Western States over eight, hundred and fity steamboats, and that 13,440 persons are en-gaged in navigation. These are some of the random statistics that occur to me; but we must remember that the statistics of 1814 will not serve as a basis for calculations in 1847. The growth of that region far outruns the wildest imaginings of the Poet, who has said-

"A thousand years searce serve to form a State."

We beheld them in our day, Jeaping fron our Western forests into the bosom of this Confederacy, almost before we can give them "a habitation and a name." The North Western States are peculiarly the children of New England, in whom she ought to feel an interest. Her blood and spirit are there, and the principles of liberty slie has so cherished. Her son, Nathan Dane, of Beverly, in his State, drew the celebrated Ordmance of 1787, under which the Territory forming those States was first organized under a Government. By the terms of that Ordmance, the vast territory between the Ohio, the Lakes and the Mississippi, could not be divided into more than five nor less than six States-four have already been admitted into of the Indian's battle fires along the crystal, the Union-Wisconsin alone remains a Territory. Another feature of that Ordinance. proclaiming its New England origin, was, that it prohibited slavery forever from that region. Another son of New England, no less than the late Judge Story, drew the bill, which three or four years since passed the Congress, extending the maritime law over the Lakes. The Ordinance well preparing the way for that code, improved, it is truewhich, in other times, governed in their intercourse the merchants of the cities along setts is not unmindful of Western interests. Her votes prove she has never, and I am operate with the West in the earnest advocacy of such measures as shall secure to the

DESCRIPTION OF THE CITY OF MEXICO.

The following description of the city of Mexico from William's Universal Gazetteer. will be peculiarly interesting at the present moment. We are daily expecting to hear, and the intelligence may probably reach us before this sheet goes to press, of the capture

The present city occupies only part of the site of the aucient Mexican city of Tenochtitlan, which was founded, according to the traditions of the natives, in 1331, or two cenexception of Petersburgh, Berlin, Philadelphia, and Westminster, there does not exist a city of the same extent which can be compared to the capital of New Spain for the uniform regularity and breadth of the streets, and the even edifices of a very benutiful structure.

of Lake Michigan, I beheld the city of Mil- like those of Italy and other southern coun-

Many of the streets are nearly two miles in length, perfectly level and straight, with the ends terminating in a view of the mountains that surround the valley. The houses are in general of uniform height, most of them having three stories, each from 15 to 20 feet high. The fronts of most of the houses are painted in different colors, viz: white, crimson, brown, or light green, and retain their beauty for many years, owing to the dryness of the atmosphere. The city is built in the form of a square, of about four miles on a side. The Plaza Major is one of the finest squares to be seen in any city in the world. The east side is occupied by the cathedral, a magnificent building; the north by a splendid palace, formerly occupied by the viceroys; the south by a fine row of houses, in the centre of which is a palace, called the Casa del Estada, built on the site of the palace of the Montezumas; and on the west is a range of shops, public offices, granaries, &c., with piazzas in front. Near the suburbs, to the north, is the Alameda. or great promenade.

The botanical garden is small, but rich in rare and interesting productions. It is hand-somely laid out in the Spanish fashion, with flagged walks, bordered with elegant large pots of flowers. In the centre is a large stone basin, supplied by a fountain with water.

The public buildings are very numerous. A late traveller counted 105 cupolas, spires and domes, within the city, and there are 56 churches, besides the cathedral, 38 convents, namely:—23 of monks and 15 of unns. The Franciscan convent is a large establishment, with an income of about \$90,000, mising principally from alms. The hospital is well supported, and the mint is the most extensive establishment of the kind in the world. The university, founded in 1551, and the public library, are worthy of notice, as well as the academy of painting and sculpture.

The dwelling-houses of the citizens, althor many of them are elegant, lofty, and spacious, are not as well furnished as those of cities in the United States. The city is supplied with water by aqueducts; and the canal of Chalco. which extends from the lake of that name to the city, affords an avenue for conveying in canoes, the produce of the surrounding country, and the fruits, flowers, and vegetables, raised in the beautiful gardens in the vicinity. to market. The remains of the celebrated floating gardens, called Champas, are near the lakes, and are now stationary, surrounded by a broad ditch.

Mexico was formerly subject to inundations from the lakes, to prevent which, a drain has been cut through a gap in the mountains, 12 unles long and 300 fect wide, at great expense. The climate is bland, and the atmosphere pure and healthy. The are many pleasant rides out of the city; among others, that to the village of Tacubaya, four miles distant.

This city enjoys an extensive commerce, which 3 carried on through the ports of Acapulco, on the Pacific, and Vera Cruz, Alvarado, and Tampico, on the Atlantic Ocean. Merchandise is transported on mules from these seaports; and companies of traders with the goods generally go armed to protect themselves from robbers, who occasionally frequent the roads to the capital.

The people are much addicted to pleasure and gambling. The ladies, when they are seen in the streets, are dressed in black, except on holydays and other public occasions, when their dresses are gay. They generally are in carriages when they appear in public, and but seldom on horseback. The dress of the higher classes of the men is similar to those of Spain. Long cloaks are worn in the streets, and light jackets in the houses. American. English and French manufactures of cotton and wool, and German linens, are much worn. English earthenware, beer and porter, are also in great request. Some breweries have, however, been established in the city. Beggars, called leperos, similar to the lazzarom of Naples, are very numerous in this city; they are said to amount to 20,000. The ancient city of Mexico, or Tenochtitlan, was taken by Cortez. in 1521, after a siege of 75 ground, and the present city built on the rums. Lat. 19 26 N, lon 103 45 W.

THE WAR BETWEEN THE UNITED STATES AND MEXICO.

We take the following article from an American paper:-

We ask the serious attention of the public to the following estimate of the losses of the war with Mexico, up to the first of May. It presents an appaling picture, and and proceeding from a source not unfriendly

all this outpouring of blood and treasure? The writer for the Herald, from whose communication we have taken the estimate snys the gains have yet to be designated, estimated and acquired. Mexico of the two, we suspect, though she may loose half her territory, will be the greater gainer. youd all contradiction or cavil, this was brought upon the country by the mismanagement of Mr. Polk's administration, arising from inexperience, weakness or corruption. Mr. Benron, whose authority will not be questioned by the locofocos, charges it upon President Polk, by implication, and inti-mates that ordinary wisdom in conducting negociations with Mexico would have averted a rupture with a sister Republic. The correspondent of the Herald says:

The American forces occupy territories of he enemy comprehending an area of 800,000 quare miles, equal to fifteen such divisions of territory as the State of New York.

The active American force in the field, over this vast expanse of territory, has not exceeded at any time, a sum total of 30,000 men. By a rough estimate, the losses of the Americans in the numerous fights and skirmishes have been, perhaps, not less than the following:

In the operations around Matamo-

	ras, in killed and wounded	-	- 500	men.
ĺ	At Monterey	_	- 500	
	At Buena Vista	_	- 800	••
;	In incidental skirmishing			
٠,	within the line of Taylor's			
•	operations		000	
;		-	- 200	••
,	The operations in New			
:	Mexico, killed and won'd		- 200	**
il	In California	-	- 250	**
	At Vera Cruz & neighbour-			
	hood	_	- 50	84
	At Alvarado in the attack of		•	
	Com. Connor, say	_	- 1Ó	
1	In the attack of Cape Hunt'r	_	- 00	46
ı	At Cerro Gordo, including	-	- 00	••
,	the march there			
1	the moren there	-	- 500	**
1	FT - 1111 1 4			
1	Total killed & won'd -	-	3,0	**
ı	Died of the climate -	-	2,100	**
ı				
ı	Total	_	5,510	44
			-,	

-comprehending the killed and wounded. and the dead from disease, on the side of the Americans. On the other hand, we think we may safely set down the Mexican loss at three to one in killed and wounded, as the average, in all the battles and skirmishes with our troops in every quarter; so that their aggregate loss may be reasonably set down at 10,000 men, as an offset to the 3,010 of the Americans in the foregoing table.

In the gulf, the United States have lost two ressels of war, and perhaps, not less than 50 transport vessers of all kinds, from the northrs, and the coral reefs, equivalent to a loss of 82.000.000.

The aggregate expenses of the war up tothis date, regular and irregular, ordinary and xtraordinary, with a valuation upon every thing expended or lost, except upon the brave men who have died in the enemy's country, or from wounds or disabilities incurred in the service; will cover an item of \$50,000,000of which we may set down \$5,000,000 to expenditures in the enemy's country, and for purchases of mules, provisions &c., and hire of labourers and mule drivers of the Mexicans, equal, let us assume to the citizens of Mexico disposing of those articles, to a clear profit of three millions, deducting first cost and the portion disposed of under the law of contributions.

COSTUMES OF EUROPEAN PEASANTRY. We were particularly struck, writes the European correspondent of the Charleston News, in our rapid journey from Rome, with that mark of the fixed and invariable condition of a large portion of Europe, found in the local costumes of the peasantry.-They never change. The people of adjoining provinces often appear rediculous to each other, and the rest of the world, yet the fantastic ornaments descend from parents to children as if they friends here, to go to the face upon which is enis now built Marietta—a town which is engaged largely in ship building, for the commerce of the ocean. Michigan, thirty-five boldt, "one of the finest entire ever huilt by were among the first-necessuries of life. The and looks as if some strange bird had alighted upon the shoulders. The pensantry of Modena deck themselves with a miniature straw hat, about half as large as the head, and full of planes and coloured ribbons, which they place upon the crown of the head. The Tuscaus, on the other extreme, wear a hat nearly as large as an umbrella. It is made of the beautiful Tuscau straw, and weaving in the breeze above the fresh and agreeable countenances of the ullabitants, is far from being ungraceful. The most graceful costume prevails in Genoa. Females never apto the administration may be regarded as corpear in the street in that city without a light rect, and without any exaggration. And scarf of white gauze thrown over the head,

Economy or Candens.-If you are without a rushlight, and would burn a caudle all night. unless you use the following precaution, it is ten to one that an ordinary candle will gutter away in an hour or two sometimes to the endangering of the house .- This may be avoided by placing as much common salt, finely powdered as will reach from the tallow to the bottom of the black part of the work of a partly burnt candle, when, if the same be lit, it will burn very slowly, yielding a sufficient light for a bed-chamber; the salt will of what had been answered before. He gradually sink as the fallow is consumed, the melt-states that all the substances gradually mentioned gradually sink as the fallow is consumed, the melt-states that all the substances gradually and gradually sink as the fallow is consumed, the melt-states that gradually sink as the fallow is consumed, the melt-states gradually sink as the fallow is consumed, the melt-states gradually sink as the fallow is consumed, the melt-states gradually sink gradualled tallow being drawn through the salt and con-1 found in the morganic (that part which does samed in the wick "-[The Economist

derstood it is the interest of every man, woman, and child, of every rank and station, to secure good sanatory regulations in large towns good sanatory regulations in large towns. It is the interest of the rich, who are constantly folloog victims to diseases bred in the fifthy and neglected habitations of the poor, it is the interest of the 1st payer who is havely fixed by unwholesome dwellings and workshops, it is the interest of the charitable, who feel that all they can give is miserably intelligence even to the publishion of evils which much have been necessarily at the will be but 2 lbs. plants contain the payer who is the interest of the proportions.

11—0f

Q. Do plants which make the publishion of evils which much have been necessarily at the first plants contain proportions. which might have been prevented, it is the interest of the landlord, whose rent is always better paid by a healthy than by an unhealthy tenantry, and whose property is raised in value by every structural arrangement which conduces to health: it is the interest, above all, of the labouring poor, to whom health is but a synonyme for wealth; and sackness and premature death, for poverty, em-barrasment, and desitution "—Address on the necessity of a sound and comprehensive measure of Sanatory Reform.

Domestic Expressing Expedition .-- The St. Lone Union of the 21st says:--

Drs Owen and Norwood, with several gentlemen attached to the expedition, are now here, on their way to the unexplored district near lake Superior and the sources of the Mississippi They are to make the necessary geological and other scientific explorations of the Government lands there, prior to bringing them into market The region is said to abound in copper and other moreals. They will be abound in copper and other minerals. They will be about about five months on this scientific tour and we shall look with interest to the result of their researches and observations in that valuable district. The previous servations in that valuable district. The previous reports of Dr. Owen have communded profound attention among learned men, and been of great practical benefit to the Government Norwood, who is associated with him in this Dr. Norwood, who is associated with min measurement tour, is a gentleman well qualified for the task. A party of surveyors will be sent to run the principal meridian from the Ithnois boundary to Like Superior, also the township and subdivision lines in a part of that district.

Expedient to Neutralize the Force of THE WISH — The came was carried down the of limestone, or of the common soda of the shops, stream by the force of the current; but in the afternoon, and during the greater part of the night, the sea breeze blew so strong as to impede | Q. Does carbonic acid gas form a large part of our progress. The boatmen, however, adopted a plan to overcome this which I have never seen elsewhere, nor even heard of, and I will there-fore explain it in a few words. Landing at a place where trees grew in abundance, the mon-set to work and cut off a considerable quantity of branches, which were tied tightly together with cords. One end of a long rope was made fast round its middle, while the other end was secured to the canoe. They then steered for a part of the rotto the cinoc. They then steered for a part of the river where the current was strong and threw the bundle overboard, which being heavy, from its green state, floated just below the surface of the water; and in this manner, being entirely out of the influence of the wind, it received the whole force of the current; by which means the canoe was dragged down at a rate little inferior to that by which we descend during the calm of the day.
—[Gardner's Travels in Brazil.

RAISING POTATOES FROM SEED.

In April the seed should be sown on a light hot-bed, on the surface, well raked in and patted with a spide, giving occasional light waterings When the plants appear, admit plenty of air, and in order to promote their growth in the early part of the summer (for the size of the tubers will greatly depend on this) in May or June they should be trinsplanted on a warm border, in rows, 18 inches apart, and 9 inches in the rows, and watered frequently in dry weather, and when growing not to be moulded. But in the event of extreme drought, all those efforts may prove fruitiess; therefore we recommend our general estuation be chosen, not too dry, and sow the seed in very shiftow drills, 18 inches apart. When the plints have attained proper strength they should be thinned and transplanted as before directed, leaving the rest to their fate (these probably will do the best, but will not produce the largest tubers). Under this mode of treatment, plants may not be expected to appear. unless through artificial waterings, till a dripping time, though it should be the end of the summer, when the seed will vegetate, and grow, as it were, spontaneously, without any trouble whatever.-[Hardy and Son, seed-growers, Maldon. Essex.

Scientific.

CATECHISM OF AGRICULTURAL CHEMISTRY AND GEOLOGY.

We shall continue our extracts on Agricultural Chemistry under our scientific head. We omit a few questions which in Mr. Johnson's " Catechism" follow those given in our last number, as they are nearly a repetition not burn away-the ash-see last No.) part of plants, in some, more than in others. As Appent to Spin-interest - Rightly un- thus in 100 lbs, of day, there may be 9 or 10 lbs. ash, while in 100 lbs. of wheat there will It is be but 2 lbs. of ash. The ash of different plants contains these substances in different black vegetable matter of the soil

11 -Of the Organic Food of Plants.

- Q. Do plants require food as animals do?
- A Yes, all plants require constant supplies of food in order that they may live and grow.
- Q. Where do plants obtain their food ! A. They obtain it partly from the air and partly from the soil.
- Q. How do they take in their food?
- A. They take it in by their leaves from the air. and by their roots from the soil.
- Q Do plants require two distinct kinds of food / A. Yes, they require organic food to support their organic part, and morganic food to support their morganic part.
- Q Whence do they obtain their organic food !
- A They obtain their organic food partly from the air and partly from the soil.
- Q. Whence do they obtain their morganic food ! A. They obtain their morganic food whody from the soil in which they grow.
- Q. In what form do plants take in organic food from the air?
- A In the form chiefly of carbonic acid gas.
- Q. What is carbonic acid gas?

A. It is a kind of air which has no colour, but has a peculiar smell. Burning bodies are extinguished in it, and animals die, and it is heavier than common air. It causes the boiling up of soda water, and the frothing of beer, and forms nearly half the weight of all limestone rocks.

[You may prepare carbonic acid gas, by pouring dilute muriatic acid, (spirit of salt,) upon bits

- the atmospheric air 1
- A No, the atmospheric air consists almost entirely of a mixture of oxygen and introgen gasses. Five gallons of air contain about four of mitrogen and one of oxygen, but in 5000 gallons there are only 2 gallons of carbonic acid gas
- Q. Do plants drink in much carbonic acid from the air 7
- A. Yes, they drink in a very large quantity.
- Q. How can plants drink in so large a quantity of this gas from the air, which contains so lattle ?

A. They spread out their broad thin leaves in great numbers through the air, and thus are able to suck in the carbonic acid from a large quantity of air at the same time.

- Q. How do they suck it in !
- A. By means of a great number of very small openings or mouths which are spread every where, especially over the under surface of the
- Q. Do the leaves suck in this carbonic acid at all
- A. No only during the day tune. During the night they give off a quantity of carbonic acid.
- Q. What does carbonic acid consist of !
- A. Carbonic acid consusts of carbon, or charcoal, and oxygen.
 - 6 lbs. of carbon and 16 lbs. of oxygen form 22 lbs. of carbonic acid.
- Q. How do you prove this !
- A By harming charcoal in oxygen gas, when cabonic acid gas will be formed.

[This experiment may be shown by introducng a piece of red hot charcoal into a houle of oxygen gas until the charcoal is extinguished. when, upon putting a lighted taper into the bottle. you will find carbonic acid has been formed, for the taper will be extinguished.]

- Q. Does the plant retun both the carbon and the oxygen contained in the carbonic acid that is absorbed by its leaves?
- A. No. it retains only the carbon, giving off the oxygen again into the air.

- Q. How do you show that the leaves give off this ogygen gas I
- A By putting a few green leaves under a tumbler or gas-receiver full of water, and setting them out in the sunshine, when small bubbles of oxygen gas will be seen to the from the leaves, and to collect in the upper part of the tumbler.
- Q. Do the leaves of plants drink in any thing else from the atmosphere I
- A. Yes, they drink in watery vapour.
- Q. What purpose does this vapour serve I
- A. It serves in part to moisten it leaves and stems, and partly to form the substance of the plant itself.
- Q. In what form do plants take in carbon from the soil?
- A little form of earhouse and humic and and some other substances which exist in the
- [To form humte acid you have only to dissolve chile common sods in water, bud the solution upon finely powdered peat or rich dark and, pour off the solution when it has stood to settle, and old weak spirit of salt to it. Brown flocks will fall, which are hume acid. This hume acid consists of carbon and water only]
- Q In what forms do plants derive introgen from the soil !
- A In the forms of ammonia and intric acid

For the Ladies.

THE LAST TEAR. BY O CARMICHAFI.

She had done weeping—but her eye-lash yet Lay silken heavy on her blied check; And on its tringe, a tear, like a lone star Shining upon the rich and by acanth skirts Of the western cloud that veils an April even. The yeil rose up and with it rose the star, Gatering above the gleam of to ider blue. That widen das the showers clears off from heav'n Her beauty woke—a sudden beam of soul Flash'd from her eye, and lit the vestal's cheek luto one bright crimson, and exhaled the tear.

Brooklyn, L I.

THE ATTENTIVE GALLANT.

The Bullimore Western Continent tells the following good one, combining gallantry and green-

Some two weeks since a young gentleman from one of the Southern Str. s came to Washington, to endeavour to obtain an appointment in one of the new regiments about being raised for Mexico. It was his first trip to the North, and having travelled straight through from Atalanta to having travelled straight throngo from Aranna to Washington, without stopping on the rood, he had better opportunity of feeling than seeing the effect produced by the change of chinate. On the day after his arrival he was introduced by the member of this district to several young lades, with one of whom a fell to his lot to walk from Gadsby's to the capitol.

The lady was provided with a ponderous muff. low so lashionable an article of dress at the north Our here was in a diferima-what to call it or for what purpose it was used, he did not know. But one thing he did know, and that was that it was anything but polite for a gentleman to allow a lady to bear such a burthen. He scrutinized it not divide what it contained but he was perfectly tamiliar with the "kiver," and unable longer to restrain his gallantry, he extended his hands,

- "Miss Julia, low me to toat your bar-skin for von 2
- "Thank you, sir—don't trouble yourself," re-plied Miss Juha, blushing very red.
- "Oh, 'taint no trouble in the least!" replied our hero, insisting on relieving her of her burthen

The merry girl at last consented, rather than enter into so embarrassing an explanation; and taking the mult under one arm, our hero offered the other to his fair companion, with whom he marched holdly along the avenue to the capitol, to the no small wonderment of the passing crowd

It is needless to add that he soon discovered his metake, or that he has from that hour held all ladies' muffs in utter abhorrence.

INTERESTING TO BACHELORS.

An English paper indulges in the following remarks in relation to certain members of the community. We recommend them to the serious consideration of all old bachelors.

 $^{\rm tr} {\bf A}$ man who passes through life without marry ing, is like a fair mansion left by the builder im finished. The half that is completed runs to decay from neglici, or becomes at best but a sorry tenement, wanting the addition of that which makes the whole useful. Your bachelor is only the moiety of a man; a sort of garnish for a dish; or a prologue to a play; a bow, without-the fiddle."

A young lady at school, engaged in the study of grammar, was asked if a kiss was a common or proper noun. After some heritation, she replied, " it is both common and proper."

Scraps.

- "Is smoking offensive to you?" said a landlord. as he took out to s egar to a family that had just moved into his house. "Not at all, Sir, said the female part of the household." I am glad to hear it," said he — for all the fire places hero to hear it," said he for all the fire places here smoke so had, that you will be bacon before you have inhabited the premises six months."
- "Those retions which have been most distinguished for their love of hisbandry, whether of the gard in or of the fields, have been the most prosperous

A young lidy lately observed, "When I go to the the stre. I am very careness of my dress, as the andience are too attentive to the play to observe my wardrobe, but when I go to church, I am very part cular in my ontward appearance, as most people go there, to see how their neigh-bours dress and deport themselves."

Love -Love has made in like the sandal tree, that sheds sweetness on the axe that wounds it.

Two females had a set-to in the streets of Philidelphia, a few days since, and before they could be separated one had completely bitten off the nose and ear of the other.

A Cosyspan w - Why are welled to infer that A Coversion was well as the first had a discount of the first had Joshua were intemperate men? Because David when he went out to meet Golinh "on the field of honour," "tonk a slarge;" and Joshua, previous to his attack on the walls of Jericho, "took a horn," and gave a "regular bloto out?"

News Department.

TT We have received an excellent communication from a "Scotchman" on the subject of Oil cake and other articles of export. We are sorry it did not come to hand in time for this number. We shall take great pleasure in laying a before our readers next number.

Arrival of the Cambria.

The Cambria brings accounts of a decline in the prices of gram; but it appears that the accounts at New York were extremely contradictory, and extensive dealers were afraid to act. It is highly probable that the circumstances which have caused a depression of prices will be of temporary duration; as much will depend upon the prospect of the coming harvest, especially in the great grain growing states of the American Union, from which accounts within the last few days are anything but favourable.

We learn from a geutleman who has arrived from Iowa, that in Michigan and Illinois nearly half the crop has been winter-killed. It will also be seen by extracts in another column that the wheat crop in the Western States is suffering severely from the ravages of a fly. So that from all the circumstances of the case, it is not likely that the present depression in prices will be anything but temporary.

THE FIRST OF THE FRANCO-AMERICAN LINE OF STEAMPRS.

Decline in the Prices of Produce.-Improved condition of the Money Market .- Death of O'Connell.

NEW YORK MARKETS.

NEW YORK, Thursday, June 17, three o'clock, P.M.

On no occasion has there prevailed, on change here, more contradictory views than have been nonceable to-day. The advices of buyers differed so much, and, in fact, so directly contradictory were the impressions in anticipation of the foreign arrivals, that business seemed impossible. Sales were however made to a considerable extent, after much delay. Flour, Ohio and Michigan, brought \$7,75c a \$7,874c. and finally, both rose to \$2. Wheat opened in the morning at \$1 621c, subsequently brought \$1 70c. Corn brought 81c a 80c. those prices, however, must not be dremed set-ded, or as those that may be relied on to rule even to morrow, but rather as movements in the dark, or at least uncertainty, and with an unsettled market.

The Cambria news is 16 days later than previous dates. Breadstuffs have fallen. Flour went down to 40s, but was 42s on the 4th. Sour 38s. American wheat 10s on 50 s. Indian Corn steady at about 52s 6d per 70 lbs. Indian Corn steady at about 52s for prime yellow. Corn Meal 2es to 31s, with an upward tendency. Provisions in fair supply demand dull—prices fair. Cotton has advanced. Upland is 5gd to 7d per ib.; Orleans 5gd to 8gd.; Alabama and Mobile 5gd to 7dd. Sea Island 12dd to 20dd; East India i to j higher than by last steamer. Sales brisk. Prices of iron supported.

Financial prospects are animating. The crisis re over! The Bank discounting more freely, and bullion is mercased \$\fo\$ of a million in a week. Part of the Russian loan arrived. Exchange 1063 to 109.

DEATH OF O'CONNELL.

O'Connell died at Genoa 15th May. His heart is to be deposited at Rome-his body in Ireland.

NEW YORK MARKETS

New York, 7 P. M. Stocks broyant after foreign news was made public, the advices being considered favourable in financial circles — Sides Treasury notes 64. Rouding Railroad (24). Old 624 — New 62.

There has been but very little done in flour, as operators want to see the private letters before change. Large dealers would not name a price. We hear of sides of 1 to 5000 bbls, at \$3, but are not positive about the sales; \$7.5%, is freely offered. Breadstaffs are in the same category onered Drawding are in the same category with flour. Round yellow corn is reported sold at law as \$1, and some at \$1 124c. Oats, 58c. to 59. Rye \$3.35c. Before the news cotton Rold higher, but nough has been done since. Ashes are without crange. The exchange way intense—[Globe Extra.]

The Will at Prosence -We have taken particular pains to converse with all our friends from the interior, in relation to the crops. We have also received many letters within the past two weeks, on the same subject; and we regret to say that we are firm in the belief that not a twothird, and we do dit to ry much if a half crop will be rused in Medigan —Detroit Express.

Tur Will or Cros - We hear immerous complants of the ravages of the Fly on the wheat crop. In many parts of this county entire fields are being swept down by that destructive insect, and we hear of similar complaints west of us .-18t. Joseph Rep. Michigan.

THE WHEST CHOP .- We had supposed, and with very good reason, until within a few days, that the wheat crop would be at least an average But we are informed by Sheriff Martin, ind others, who have visited different portions of the county, that what was not winter killed, is now being destroyed by the insects. So much so that the best fields will not yield more than five bushels per acre and many of them not two bushels. It is estimated by good judges, that this county will not yield a su-plus bushel of wheat.— Oskland Gazette

Wood is selling in this village at from 18 to 25c per pound, according to quality -{1h

Opening of the Provincial Parliament.

at the opening of Pahament. As the Speech the best security for social progress. is supposed to contain an announcement of the measures which the Government intend to introduce during the session, our readers will see duce during the session, our readers will see rance of the carnest desire of our Gracious Queen, what they are to expect. We are sorry to observe very important omissions. Though Parha- piness of its people. ment has now been two weeks in session, nothing has been done in the way of Legislation. The Ministry, after much debate, carried their answer to the Address by a majority of 2.

LAGISTATIVE COUNCIL CHAMBER, Montreal, 2nd June, 1817.

This day at Three o'clock, P. M., His Excelthe Governor General proceeded in state to the Chamber of the Legislative Council in the Parhament Building The Members of the Le-gislative Council being assembled. His Excellency was pleased to command the attendance of the Legislative Assembly, and that House being present. His Excellency opened the Third Session of the Second Parliament of the Province of C made with the following Speech from the Throne:-

Honourable Gentlemen of the Legislatice Council

Gentlemen of the Legislative Assembly,

It gives me sincere gratification to meet you, that we may deliberate on the important interests

committed to our charge.

The representations which have proceeded from this and the neighbouring Provinces on the subthis and the neighbouring Provinces on the subject of the Post Office, have engaged the anxious consideration of the Luperial Government. Lam enabled to inform you that Her Majesty's Ministers are prepared to surrender to the Provincial Authorities, the controll of that Department, as soon as by concert between the several Legislatures, arrangements shall be matured for securing. to British North America the advantages of an efficient and uniform Post Office system.

By a Statute passed during the last Session of the Imperial Parliament, the Colonial Legislatures are empowered to repeal differential duties, here-tofore imposed in the Colonies in favour of Britotore imposed in the Colonies in favour of British produce. It is probable that by exercising this power, you may be entitled to benefit the consumer without many to the revenue. I commend the subject to your consideration, and I shall lay before you certain communications relating to it, which I have received from Her Majesty's Secretary of State for the Colomes, and from the Lieutenant Governors of Nova Scotta and New

Measures will be submitted to you for extending more generally warehousing facilities to inland ports, and for effecting other improvements in our commercial system, all of which will, I am sure, latte wars in Gwalior and other provinces, or even engage your attention.

In pursuance of an address presented by the House of Assembly during the course of last Ses sion, inquiries have been instituted with the view of ascertaining the proticability and probable cost of the construction of a Railway between Quebec and Halifax. A survey of the proposed line has been undertaken by the Imperial Government,

and is still in progress.

I shall submit for your information a Despatch from the Secretary of State, describing the course from the Secretary of State, describing the course which Her Majesty's Government proposes to take in order to remedy the inconvenience which the Provinces of British North America appear to have sustained from the operation of the Imperial Statute for the protection of Copy-right.

In view of the large Immigration which may be

expected to take place this year, measures have | States last year.

been adopted for providing additional accommodation and Medical attendance for the sick; and for increasing the means of forwarding the desti-tuta to places where their labour may be required. An increased grant has been made by the Imperial Parliament in aid of this service. Although it is to be feared that there may be much want and affering among certain classes of Immigrants who arrive this Season. I have reason to believe that they will be accompanied by a greater number than usual of persons possessed of capital who are pkely to prove an acquisition to the Province. Gentlemen of the Legislative Assembly,

I have directed the Accounts of the Revenue and Expenditure of the past year, with the esti-mate for the current year, to be laid before you.

I observe with satisfaction that there is an in

rease in the Revenue derived from Public Works. I rely on your making such provision for the maintenance of the establishments and credit of the Province as may be necessary to support the high character for probity and good faith which Canada has at all times maintained

Honourable Gentlemen and Gentlemen.

We have reason to bless Providence for our ex couption from the calcoury of famine with which another part of the Empire has been so sorely afflicted, and I congratulate you on the liberality which the Inhabitants of this Colony of all classes and origins have evinced in contributing to the relief of their fellow subjects.

I cannot refrain from adverting to the fact that among those whose generosity has been so con-spictions on this trying occasion, are our Indian Brethren.

The occurrences of the past year, though in some measure exceptional, indicate that there is a growing demand in Europe for the produce of this Continent, and render it highly important, that the inhabitants of Canada should improve to the ritmost, its natural advantages, and those which attach to it, as an integral part of an Empire, abounding in wealth and population.

I feel confident that you will duly appreciate the responsibility which rests on Parhament at this conjuncture, and that you will endeavour by wise Legislation to afford all procueable extension and developement to the trade and productive capabilities of the Province, and to give its institutions that hold on the affections of the people which is We give below the Speech of His Excellency, the foundation of public and private credit, and

> In all measures calculated to effect these important objects. I am prepared heartdy to co-operate with you, and I am authorized to renew the assu-

The Surveyors of the Great Western Railroad are busily emyloyed on the line.

The Union emphatically denies the ramour that Mr. Polk is about to call an extra session of Congress. It also denies the story that General Scott has been ordered to balt at Jalapa, and says that in all probability by this time Gou. Scott is treading the imperial capital of the Azters.

Annivat. or Emignan.s .- We were last evening favored with the following interesting statis-ties relating to the arrival of emigrant passengers, and the number of deaths that have taken place amongst them, at sea as well as in the hospitals :-Number arrived from January 1st to

May 17th, inclusive	•	٠.	-	44.027
From May 17th to the 31st	•	-	-	16,041
Total				60,067
Number of deaths on passag	'e	-		680
Number admitted into the hi		ลโร	-	1,250
Of which, were sick with fe			-	1,044
Deaths from fever -	-		-	87
Number of passengers that this port from the 2nd of 31st of May, inclusive	Apr	il to	the	50,243
Number of passengers admi	wed	11110	the	

hospital yesterday, June 1st This is a very large number, and if the arrivals ontinue to be as large as they have been in the last two months, the number this year will exhibit as crease of fifty thousand.—New York Heraia, June 2.

400 vessels passed through the Welland Canal in month.

SCARCITY OF FLOUR IN NEW BRUSSWICK .- The St Androws Standard of Wednesday last, says—"Flour has been selling here for \$12 per barrel, and not one barrel in town this morning."

An estimate of the moneys expended by Eng land in war, within the last twenty years, is pub-lished in the India papers, as follows:—

Millions Sterling. 1827. The Burmese War -1839, Alfghamstan Campungn - 1842, Up to the Cabool Disaster - 1842, War of Retribution - 1849, 17 Section - 1849, 17 Section - 1849, 1849, 18590, 18590, 18590, 18590, 18590, 18590, 18590, 18590, 18590, 18590, 1842-17, Scinde, up to the present time 7-39.

in the great China war, because those wars are supposed to have paid their own expences.

During the month of May, 420 vessels passed through the month of May, 420 vessels passed through the canal—205 down, 215 up. 127 from and 114 to Oswego—58 from and 59 to Kingston, 15 being from American ports—15 up to and 16 down from St Catharines and Thorold—18 down and 9 up from St. Catharines. 140 scows passed, and 140 rafts went down.—[St. Catharines

It is said that the German vessel, the Estafette which has arrived at Montreal, is the first vessel from Germany, that has arrived at that port since this country was ceded to the British Government.

The receipts of grain on the Hudson River since the opening of the Caual has been nearly double of what it was last year. The New York Herald predicts that bread stuffs will be cheap enough in a few weeks to satisfy all classes.

Missisiquo Election.-Attorney-General Bad gley has been returned by a majority of about 160.

The crops in New Brunswick are said to be looking well.
There has been frightful mortality among the

emigrants to New Brunswick.

PRINCE COWARD'S ISLAND.—The Governor of Prince Edward Island has directed £3600 to be appropriated from the Colonial Treasury for the purchase of seed grain and putations, to be distri-buted among the most destinite of the inhabitants of the several districts of the Island, who may apply for the same—the amount to be refunded in January next.

In Bermuda, where the potatoe crop is being gathered, the disease has not made its appearance, except in one or two instances.

Small Pox has made its appearance among the passengers to Picton, Nova Scotia,

Potatoes are 6 shillings to 7 shillings a bushel in Nova Scotia

Over \$100 000 of the stock of the Niagara

Lady Ulgin arrived in Montreal on Saturday veck, accompanied by her brother, the Earl of Durham.

NEW ERA IN NAVIGATION .- On the 20th ultimo the three masted schooner New Branswick anchored outside Chicago harbour loaded with 18,000 bushels of wheat, with which she has cleared for Liverpool. She goes by the way of the Welland Canal and St. Lawrence.

EMIGRANTS -5.283 emigrants were entered at the New York Custom House in the first week in

On Monday, the 31st ultimo, the first red pine raft left Bytown, destined for the Quebec market.

The Montreal Courier states that many of the migrants in the emigrant sheds in that city are in a state of atter destitution, and are supplied with provisions by the government.

Sickness among the Enigrants.-The accounts from Grosse Isle are shocking. The sick are pentup in a narrow compass, and the healthy are breathing a foul and infected atmosphere. Hence it is hardly to be wondered at that the mortality is of the most fearful description. We are creditably informed that the deaths are between forty and fifty a day.—[Montreal Courier, June 8

Bishop Alley of the Methodist Episcopal Church died at Hamilton on the 5th Instant

THE wires of the Montreal and Toronto Telegraph are put up in the neighbourhood of Kings-

The cultivation of the sugar cane is becoming quite common in Texas.

The loss sustained by the Gore District Mutual Fire Insurance Company during the year is £2658 19s 5d.

A Frankut Contistor took place last week on Lake Eric, near Conneant Harbour, between the Steamer Chesepeake and the schooner J. F. Por-ter The latter was sunk; some of the crew were picked up, and three are said to have per-

Flour is ticenty dollars a barrel at the Magdelen Islands.

Two barges belonging to Mr Greer, of Kingston. laden with Pork and Flour, have been lost near the Long Sault.

Office of H. M. Chief Agent for the Superin tendence of Emigration in Canada.

Quebec, 5th June, 1847.

Number of Emigrants arrived at the ports of Quebec and Montreal, during the week ending this date:-

	owerage
From Ungland	. 621
From Ireland	
From Scotland	. 77
From Bremen	. 113
From Lower Provinces	. 20
Total	3135
Previously reported	. 5546
Total	. 8691
To sau e period last year	.11023
Decrease	2342
A.C. Buomana	,

A. C. Buchanan, Chief Emigrant Agent.

This estimate does not include, it will be obserted, the campaign of the Punjaub, or the several Grosse Isir.—We learn from a source, upon the authenticity of which we can rely, that official the authenticity of which we can rely authenticity of which we c information has been received by the Emigrant Agent in Chief, at Quebec, of the sailing of about 40,000 emigrants previous to the departure of the steamer of the 10th May, and it may be taken for granted that at least 5,000 more have sailed from ports from which no official advices have been reports from which no official advices have been received. The arrivals at Grosse Isle up to the 5th of June were 25,400; of this number there died at rea 1,097; the number of deaths at Grosse Isle, on shipboard and in the Hospital, up to the same date were 900; the number of sick in the hospital up to June 4th was 1,150, and on board the ships at the Station at the same date 1200. There were eleven vessels also which had not been boxeded up to the expening of which had not been boarded up to the evening of

WHEAT, AND PORT HOPE MARKET .- During last winter there was more wheat bought in Port Hope than any former season. As near as we have been able to ascertain, the quantity was 170,000 bushels, which, on an average or 4s. 3d. a bushel, would amount to £36,111, that was paid in each for this production alone, to say nothing about the coarser grains and other produce, which form no inconsiderable item of the pro-ducts raised in the numediate neighbourhood of ducts raised in the immediate neighbourhood of this town where they are purchased, which demonstrates two undenable facts, namely; that the back country is rising in importance as a wheat growing country, and that Port Hope is the only natural outlet for the great influx of its produce. Between 20 and 30,000 barrels of flour will be manufactured in Peterboro', and above 10,000 at the various Mills in Hope, Carrell and discount townships, that they will first them. van and adjacent townships, that will find their way to our harbour for shipment, making in all way to our harbour for shipment, making in all (allowing about 10,000 bushels of wheat purchased here to be shipped in bulk) about 39,000 barrels of flour that will leave our wharves this season for Montreal; this, at five dollars per barrel, will be worth one hundred and muety-five thousand dollars. In 1844 there were about 100,000 bushels of wheat purchased in this town, and that or this year, shows an increase of seventy age, continuous and the program which speaks well. enty per cent in three years, which speaks well of the industry, and onward march in improvements of agriculturists in this location.

CREDIT HARBOUR COMPANY ES. THOMPSON .-This was an action to recover tolls and harbour dues. The defendant was sued as the owner of dues. the vessel Industry, against which an account had been made out by the Company to some \mathcal{L} — or the himse out by the Company to some 2— or 2—. The defence was resied on the ground that the himber and other property in respect of which the charges were made, was paid for by the owners of such property. One witness (Yanvolkenburgh) swore that he had paid for "all his lumber" himself, and produced receipts in full of all department of the time of any outer. mand, dated subsequent to the time of any entry on the plaintiffs books against him. Some of the charges against the defendant were for the lumber of this witness. It was also contended that the defendant had never received credit, nor agreed to become responsible for any person's goods, but only for the tolls on the vessel. It was laid down by the Judge that unless such an agreement had been made previous to the giving of credit the de-fendant would not be liable. There was no proof of this except a course of dealing and one or two or this except a chinse of dealing and one or wo circumstances from which the jury were asked to infer it. They appear to have done so by giving the plaintiffs £1 ls. 7d. Connor and Sullivan for plaintiffs, J. Duggan for defendant.

SLAVERY-ONE OF ITS RESULTS.

The extract below exhibits slavery in one of its aspects, not the least common. While the chastiong master is called "worthy," the aneducated, demoralized slave, who turns upon his tormentor, and who knows that there is no law to redress the wrongs of a black man, but such as his own hand may enforce, is a "demon". The slave will be hung, but had the other been the muderer, he would have been excused, as "he had a right to do as he pleased with his own property"!

READLING MURDER.—The Holly Springs (Tenn) Gazette, of the 28th ult. says: "a worthy young man named Carpenter, was murdered on young man named Carpenter, was mindered on Saturday last, in the most shocking manner, by a slave whom he was attempting to chastise. Carpenter was literally 'chopped to pieces' by the demon—receiving many blows from the edge of an axe on the shoulders, back, and other parts of his person, any one of which would have produced death. The murderer was immediately aprehended."

We took a look into the Emigrant sheds this morning-saw much filth,-four or five cases of apparantsickness, and not much more than fifty persons. Although, as we are informed. about 5000 have landed at Toronto, they have nearly all found their way into the country. The poor creatures expect 9 or 10 dollars a month, and yet no farmer could afford to give for such labourers, broken down in spirit. weakened in body, and ignorant of every thing but the use of the spade, half that sum. They should be content to work this summer for their board, but they look mon those who tell them so as interested and unfriendly to them.

Toronto Market Prices.

June 10.	ĸ.	a.		₹.	G.
Flour, per barrel, 196 lbs	30	O.	a	35	6
Oatmeal, per barrel, 196 lbs	26	3	u	28	6
Wheat, per bushel, 60 lbs	6	0	4	7	0
Rye, per bushel, 56 lbs	2	9	a	3	4
Barley, per bushel, 48 lbs	2	4	а	2	8
Oats, per bushel, 34 lbs	ĩ	9	a	2	$\tilde{2}$
Peas, per bushel, 60 lbs	ē	8	a	$\bar{3}$	4
Potatoes, per bushel	3	ŭ	a	4	3
Onions, per bushel	ŏ	ŏ	a	õ	ä
Post Dutter was 16	ŏ	6	a	ŏ	7
Tub Butter, per lb		6		ŏ	7
Fresh Butter, per lb	ŏ		a		
Eggs, per dozen	.0	4	a	0	5
Beef, per cwt	17	6		22	Ó
Beef, per lb	0	3	#	0	4
Pork, per 100 lbs	13	9		22	6
Hay, per ton	35	0		41)	ŋ
Straw, per ton	25	0	a	30	0
Timothy, per hushel, 60 lbs	5	O	a	6	3
Mutton, per lb., by the gr	0	2)	a	-0	3
Veal, per lb, by the qr	0	5.	а	0	3
Turkies, each	Õ	Õ	4	Õ	ŏ
Geese, each	ž	ě	a	ä	9
	2	ŏ	a	2	6
Ducks, per couple	î	6	-	2	ŏ
Chickens ner couple	å	Ä	-	ñ	

Advertising Department.

NEW CHEAP

Clothing and Tailoring

ESTABLISHMENT,

130 YONGE STREET, TORONTO,

Notice to Agriculturists.

JOHN BELL, NO 7, VICTORIA STERET, TORONTO, CARRIAGE, SLEIGH, AND AGRICULFURAL, IMPLEMENT MANUFACTURE
ER, begs to acknowledge his sincere thanks to his
rumerous Friends and Customers, who, for a seem is
of years, have so liberally patronised him in the
above line. J B. continues to manufacture, and
beeps constantly on hand, Double and Single Carriages, Lumber Waggons, Carts, Lumber and
Pleasure Sleighs, Cutters, Harrows, Scotch Ploughs
(Wooden),—an article that defies competition, one
of which was awarded the first prize at the late
Provincial Agricultural Exhibition—Horse Rakes,
Turnip Drills, and every atticle in the Agricultural
Implement line.

He calls particular attention to he "Premium two Horse Reaper," which obtained the prize at the late Meeting of the Agricultural Suciety of this District, and was pronsunced by the Judges to be superior to say 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 of twill be sold at \$90 cash or \$100 at six months with good security. good security.

J. B., in offering the above mentioned articles to the Public, begs to be understood to warrant every article manufactured by him, and having had a long practical experience in the business, and couploying none but first rate Mechanics, feels confident that he can give general satisfaction.

All orders punctually executed when accompanied with Cash, or approved references in the City



Home District Mutual Fire Company.

Orrice-Nelson Street, opposite Adelade Street, Toronto.

TNSURES Dwe''ings, Houses, Warchouses, Boildings in general, Merchandize, House-hold Furniture, Mills, Manufactories, &c.

DIRECTORS: W. A. Baldwin, Dr. Workman, John McMarrich, James Lesshe, J. B. Warren,

William Mathers, John Doel, John Eastwood, B. W. Smith, A. McMaster,

J H PRICE, Esq., President. J RAINS, Secretary,

All Losses promptly adjusted. Letters by Mail must be post-paid. December 26, 1846. 444-

POR Cheap Birmingham and Sheffield Goods,

NEW HARDWARE STORE,

No.77 Yonge Street, a few doors North of King st.

J. Shepard Ryan,

Having a Partner in England, can purchase Goods at as Low Prices as any other House, and respectfully solicits a share of public pa-

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

Toronto, 1st January, 1847.

1-12m.

Notice.

THE BOOK, STATIONERY, PAPER-HANGING, and BINDING BUSINESS hitherto conducted by R BREWFR will, from and after the 1st of April ensuing be carried on by the undersigned Firm, under the Name of

Brewer, McPhail, & Co.,

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

Fairbank's

Scales.

THESE SCALES are constructed with great care by experienced workners, under the supervision of the mentors. Effort is made to secure, not only perfect ACCURACY, but also the greatest STRENGTH and DURABILITY. They have been long known and severely tested, and have been found ALWAYS RIGHT.

These Scales are adapted to every kind of him the pursuance of the authorit, vested in the Board by the Statutes 4th Wm IV., Chap. 10.

Ondersto.—That in order to adopt every ne constructed with great control of prevent the surroul of tagions discount to prevent the surroul of tagions discount to prevent the surroul of tagions discount to prevent the surroul of tagions discount.

60 tons Lughsh Iron, 20 tons Best Iron, 20 tons Swedes Iron,

15 tons Swedes from
15 tons Sheet Iron,
16 tons Sheet Iron,
2 tons Plough Sheras,
2 tons Waggon Boxes,

2 tons Vaggon Boxe 2 tons Cast Steel, 3 tons Blater Steel, 1 ton Spring Steel, 4 ton Lagle Steel, 2 tons Bellied Pots, 2 tons Bellied Pots, 5 Blata and b Bellied

5 Blacksmith's Bellows, 60 Blacksmith' Vices,

60 Blacksmith' Vices,
15 Hill's varrishted Anvils,
120 Sugar Kettles,
40 Potash Coolers,
10 hoves ' Pontpool' Plates,
25 Box Stoves, 21 to 36 inches,
450 casks Cut Nails,
50 casks Wrought Nails,
20 casks Wrought Nails,
40 casks Horse Nails,
40 casks Urought Spikes,
40 casks Coil Chain,
200 hoves Windows Glass.

200 bayes Windows Glass, 2 tons Patty.

20 dozen Common English Spades, 10 dozen Common English Shovels,

5 dozen Irish Spades, 2 dozen Scotch Spades,

60 dozen Steel Shovels, 8 dozen Steel Shovels,

10 dozen Gram Scoops, 40 Philadelphia Mill Saws,

40 Fairbanks Platfin & CounterScales.

JUST RUCEIVID ex ships Capricors, Baron of Brander 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, TOROSTO.

GENERAL MERCHANT—WHOLESALE

MPORTER of HEAVY HARDWARE, Birmingham. Sheffield and Wolverhampton Surle Crates and Hhds.

Also,—Importer and Dealer in Teas, Sugars, Tobaccos, Frints, Spices, Ods, Paints, Dye Woods, Guippowder, Shot, Window Glass, Cot-ton Batting, Wadding, and Candle Wick.

Together with a select Stock of STATION-ERY, English, French & German Fancy Goods, Combs, Beads, &c. &c. &c.

Toronto, Nov., 1846.

Mr. C. Kahn,

SURGEON DENTIST. King Street, 2 doors West of Bay-street, Toronto.

J. Ellis, Civil Engineer.

HORIZONTAL, Inclined, and Undulating Lines of Railways Surveyed; Macadam-ized 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 Specifi-cations Sections or Model Maps and Estimates showing the true cost of construction, founded upon Rules and Principles strictly Mathematical, obtained through sixteen years experience and active practice, both as Engineer and Contractor.

N.B. J. E. will give detailed Estimates, if required, to persons employing him, showing and proving that the Calculations are founded upon true principles, with Plans. Sections. or Model time I came of a man who for some four or five months. Sections of Model case of a man who for some four or five months. 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 work done.

Peter-street, Toronto, January, 1847.

Board of Health Notice.

THE attention of the Citizens generally, is

Samuel Morphy

Begs to inform his numerous Friends and the Public that he has commenced business in the above line at No. 1.00 Yonge Street. Two Doors North of Queen Street, and adjoining Mr. Good's Foundry.

A valiety of READY-MADE CLOTHING soutable for country use, constantly on hand and will be sold Catep for Cash.

Farmers' Cloth received and made up to order on the most reasonable terms.

Teronto, March 17, 1817.

Notice to Agriculturists.

JOHN BELL. No. 7, Victoria Street, Tognery Carried May No Carried May No Carried Street, and Street May 100 to 1 ¹ provided.

Published by order of the Board of Health. CHARLES DALY,

C. C. C.

Clerks Office, Terente, June 10th, 1817.

Boot and Shoe Store,

4, Citi Buildings, Tomorto. SIGN OF THE GOLDEN BOOT.

HE Subscriber cubraces the present oppor-L tandy of returning thanks to his numerous Customers, and the Public, for the liberal patron-Customers, and the Public, for the liberal patronage he has received from them since his commencement in Business, (being about fourteen years,) and begs to inform them, that having recently added to his Premises, and greatly enlarged his Stock, he has now on hand a large Assortment of Ladies', Gentlemen's, and Children's BOOTSA SHOUS, INDIA RUBBERS, &C. of all sizes and quality which he is disposed. Ac., of all sizes and quality, which he is disposed to sell on the most moderate terms.

JAMES FOSTER.

January 18, 1847.

Drug & Medicine Business,

In all its Branches, Wholesale and Retail. This Department will be conducted by one of the Firm, 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, LDWARD MePHAH, ROBERT MePHAH, JOHN BENTLEY.

Toronto, 9th March, 1847.

Swain & Co's Hygeian Medicine, OR, WORSDELL'S

Vegetable Restorative

PILLS,

PICOMMENDED as the best FAMILY

AUDICINE now in use, by thousands in

Great Britain, the United State of America, and
Conada, for Restoring Impaired Nature to
HEALTH and Vicoun, and preventing Disease in
the Human System, by Purifying the Blood.

Prepared solely by J. SWAIN & CO., 65, 25 ge Street, Toronto; who respectfully call the attention of their Agents, and the Public in general, to their virious other Medicines, particularly their CARMINATIVE for CHILDREN, and their STOMATIC BITTERS, ESSENCES, PERFUMERY, &c. &c. &c.

Authorised Travelling Agents.

Mr. Jacob Hick,

Mr. Junes Wetherald, Mr. W. H. Smith, and Mr. D. Swallow;

By whom (and at their Establishment, as above) Orders will be received, and punctually attended to.

STRIKING CURES. WHO WISHES TO THROW AWAY HIS CRUTCHES !

Read the following Extract of a Letter received from our Agent at Richmond, Dalhouse Dis't:— Richmond, 5th August, 1846.

Mesers. John Swain & Co.,-As Agent here, I beg leave to inform you, that in all cases where your invaluable Pills have been used in this vicinity, they have been productive of the most happy results: the relief afforded to individual suffering n various ways has been almost incredible; therefore I cannot pretend to give a detailed ac-count of their various virtues; but at the same was confined to his house, and most commonly to bed, and not able to reach the door of his dwelling, excepting by the use of Crutches, from the effects of inveterate running sores in both leg; ; yet, surprising to say, the Pills have entirely effected a cure, and the man is now able to work,

his name is William Lackey, residing in the Township of Goulbourne, in this District, I remain, Gentlemin,

Yours with respect, P. McLLROY.

To J. Swain & Co.,

Edwardsburgh, January, 1847.

GENTIAMEN.—I have now great pleasure in handing you the annexed certificate. from my, wife, which will speak for itself. I our fictional Agent. Mr. Wether ild, desired one to give him a certificate as soon as she was cuted, but its family and a great and as most she had remained we six a reridicate as suon as she was cured, but fused to do so until she had remained we so months. That period has now-claused, an am happy to inform you that she has had no turn of her complaint, but is in perfect health.

ABRAHAM WILSON.

CURE OF OLD STANDING STOMACH

COMPLAINT,
By Swain & Co.'s Hygenan Medicine, or Worsdell's Vegetable Pills.

Fo J. Swam & Co.

GENTLEMES,-For sixteen or seventeen years was afflicted with a Stomach Complaint, at I was afflicted with a Stomach Complaint, attended with distressing pain and general debility, and for the last two years of the time I was not expected to recover. At that time my hisband was appointed Agent for the Sale of your falls, when I determined to try them myself, and, by persevering in taking them every day, fill I had used five foxes, I was perfectly cured, and have remained entirely well ever since.

I remain, Gentlemen, yours respectfully, as MARGARET WILSON.

-RUMARKABLE TESTIMONY.
Testimony of C. J. Forsyth, Esq., Wellington Square.
To J. Swain A. Co.
Wellington Square, January, 1847.
Gentlemin.—I have been in the practice of using your Palls myself, and recommending them to others, and I have found them to be unequaled in their effects muon the human system; and en in their effects upon the human system; and I believe your Medicine is a safe and efficient remedy against those afflicting disorders to which mankind is subject.

I am yours very respectfully,

C. J. FORSYTH.

MARK THIS.

MRS. OLIVER, Wife of F. A. Oliver, Esq., Tyandenage, parted with a Tape Warm from 25 to 30 feet long, from the use of Swam & Co.'s Vegetable Restorative Pills.

J. WETHERALD.

CURE OF INFLUENZA.

Mr. B. Wiscer's Child was seek for three mon hs, from Influenza, and was reduced to a skeleton, and all hopes of his recovery were given up. He was advised to take the Vegetable Restorative Pills, which soon off-cted a cure, and he is now enjoying good health.

CURE OF INFLAMMATION IN THE

BOWELS.
Mr. W. H. SMITH, Toronto, was suddenly Mr. W. H. Shittii, foromo, was smoreny attacked with Inflammation in the Bowels; in this alarming state he took a few doses of the Vegetable Restorative Pills, and was perfectly cured in four days.

CURE OF GRAVEL

Mr. SLATER, of Seneca, Grand River, suffered severely from Gravel, but, by taking a few boxes of the Restorance Pills, he is now cutirely cured of that distressing complaint.

CURE OF LIVER COMPLAINT.

Mrs. Slater suffered for years from I ver Comshe, however, took a lox of the Restorative Pills, and, to the great astonishment and joy of lerself and the whole family, she is now per-tectly cured, and never enjoyed better health.

WC IDERIUL RESTORATION TO HEALTH.

Mr. AVERILL, of the Township of Brantford, farmer, was unable to work during the most of the summer; but, by taking the Restorative Pills for five days, he was so much better as to be en-abled to perform a good day's work at craddling wheat.

THE

Canada Farmer,

SEMI-MONTHLY JOURNAL OF AG-RICULTURE, INTERNAL IMPROVE-NT, LITERATURE, AND GENERAL A INTELLIGENCE, is published every other. FRIDAY Morning, at the Book and Stationery Store of R. BREWER, 46 King-street, Toronto TERMS:

Single Copies, 7s. 6d.; any person remitting Subscription for Five Copies, will receive one copy gratis: Twelve persons joining together, or person sending \$12, will be entitled to twelve Copies. All Payments to be made in Advance.

Advertisements inserted on the usual torms. All Communications to be addressed "To the

Fditors of the Canada Farmer, Toronto," and Post paid.

yet, surprising to say, the Pills have entirely A List of authorized Agents will be published effected a cure, and the man is now able to work, and travel about his business, whole and sound: obtained, in different parts of the country.