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CANADA



FARMER.

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

Vol. I.

TORONTO, SATURDAY, JULY 17, 1847.

No. 13.

The Essay of which the following is a part, received the prize officed by the Massuchusetts Society. The writer S. L. Dana is well known in the United States as an Agriculturist, and ranks among the first both for practical and scientific knowledge. His writings are numerous and of the very highest order. This little Essay was intended to be plain and practical, and to lay down those well-proved principles which ought to be understood by all who have to do with the cultivation of the soil. The farmer who is anxious to add to his stock of knowledge and have more clear and intelligible notions of the very first principles of his business may by giving the essay of Dr. Dana (which we shall publish) and the Agricultural Chemistry of Professor Johnson, (part of which has already appeared in our Columns) a careful perusal, be greatly pleased as well as greatly benefited. It is the want of such knowledge that makes farming a yearly experiment. Why is not more effort made by all interested parties to dominish its accidents and uncertainties, by making it a science?

CLEARING AND BREAKING, UP AND MAKING COMPOST.

THERE is one thing settled in farming; stable manure never fails. It always tells. There are no two ways about it. There is here neither theory, nor speculation, nor doubt, nor misgiving. "Muck it well, master and it will come right," is an old proverb. It is considered a fact so well established, that nobody t links of disputing it. There is advantage in asking why barn-yard manuse never fails. The answer is easy. It contains all that plants need for their growth. If we know then what plants contain, we can easily tell what is in manure The whole doctrine of manures, then, falls into two plain principles, on which hang all the law and the " profits" of agriculture.

1. Plunts contain and need certain substances which are essential to their

2- Manure contains all those substances which plants want. If, then, we would find out what it is which manure contains, that makes plants grow, we very sensible man, who wrote letters on

the very names make us feel at home alkalies, means potash, sods, and ammonia. all of those—Be not disheartened: Look over, read, the list again carefully, see how many are o'd names of things which you know. Of the fifteen, you know nearly one half by name and by nature These are potash, soda, lime, magnes a iron, sulphur. Perhaps you will add,, that you know carbon is coal, or rather roal carbon. You have heard from our travelling lecturer at your town Lyceum, that oxygen and hydrogen together form water. That oxygen and nitrogen form the air you breathe; that nirogen and hydrogen form ammonia, or salvolatile, which gives the sharp sm ll to the smelling bottle. Besides, the thing has been said to so often that you must have heard it that chlorine the substance which bleaches in bleaching salts, united to soda, makes common salt; or if chlorine is is united to ammonia, sal ammoniac is formed. Now changes and combinations among these fifteen things, nature makes everything we find in plants. Many of these are invisible as is the air. The substance called chorine, perhaps you have never seen, but if you ever smelt it you would never forget it. It is often smelt in a pire of bleached cotton, when opened in the shop. It gives smell to bleached powder used to disinfect the air, during cholera and other diseases. If you could see it, it would appear merely a faint yellowish green air. It is allpowerful on vegetation. As it forms a part of common salt, say half of its weight, we may dimiss the further consideration of it, by saying, that, in some shape or or other, chlorine is universally diffused in soil and plants.

The list above may be divided as ly, the earth and metals; thirdly, the must first find out what a grown plant alkalies; fourthly, the inflammables. chemistry, no, not even its terms. As a alkaline properties. Touch your tongue un ted to aqua-fortis. Yet in saltpetre with a bit of quicklime, it has a hot burn-Botany to a young lady, said, to encourage ing, hitter taste. These are called alkahis pupil, it was possible to become a line properties. Besides these they have very good agricultural chemist, without the power of combining with and taking knowing little more then the chemical the sour liquids or acids, that is, the acid names of a very few substances. You and the alkali neutralize each other. know nothing of chemistry it may be, This word alkali is of Arabic origin; its and as little of law; yet you will go to law very name shows one of the properties and learn some of its terms by a dear of alkalies. "Kali" is the Arabic word bought experience. The law terms are for better, and "al," is like our word

Potash is the alkali of Land plants; coda again, alumina, magnesia, iron, manganese and silex, sulphur, and phosphorus. Here is the alkali of sea plant; and ammonia is a long list. Long as it is, perhaps it is the alkala of animal substances. Potwill be thought worth learning, when you ash and sode are fixed, that is, not easily are told, that these are the name of all raised in vapor by fire. Ammona always the substances found in plants, every exists as vapor unless fixed by something substance which they want. Out of these else. Hence we have a distinction among is made every plant. Every part of alkalies which is casily remembered. This every plant, from the hyssop on the wall distinction is founded on the source from to the mountain ceder, contains some of which they are procured, and upon their nature when heated. Poinsh is vegetable alkali, derived from land plants; soda is marine alkali derived from sea plants; ammonia is animal alkali derived from animal sub-tances. Poinsh and soda are fixed alkalies; ammonia is a volatile alkali. Potash makes soft soap, with grease, and soda forms hard soap. Ammoma forms neither hard nor soft; it makes with oil, a kind of orntment, used to rub a sore throat with, under the name of volatile limiment. But though there be these three alkalies, and two alkaline earths. I want you to fix in your mind, reader, that they all have common properties, called alkaline and which will enable you to understand their action. without more ado about their chemistry. The inflammables, or our fourth devision. are sulpher and phosphorus; both used in making fei-tion matches. The phosphorus; first takes fire, by rubbing, and this sets the sulpher burning. Now the smoke arising from these is only the sulphur and phosphorus united to the vital part of the common. This compound of vital air, or oxygen, as it is called, and nflameables, forms acids, called sulphuric and phosphoric acids. So if you burn coal, or carbon, it is well known you form fixed air, or carbonic acid. That is by burning, the coal or carbon unites with oxygen or vital part of common air, and forms earbonic acid. The heavy, deadly nir, which arises from burning charcoal has all the properties of an acid. And now let us see what these projecties are, acids unite or combine with the alkalies. atkaline earths, and the metals. When acids and afkalies do thus unite, they each lose their distinguished properties. form a new substance, called a salt. It follows: First, the airy or volatile; second- is very important you should fix well in your mind this definition of a salt to common salt. That is a capital example of contains. This cannot be done without Only the third and fourth divisions rethe whole class. It is sada, an alkali, some little, a very little knowledge of quite to be explained or defined. The united to an acid, or chlorine, or, to speak chemistry. Do not be startled, reader substances called potosh and sada are in terms the most intelligible, to mirratic I suppose that you may know nothing of termed alkalies. They are said to have acid. So saltpetere is a salt. It is potash vou perceive neither poinsh nor agua fortis. These have un ted, their characters are neutralized by each other. They have formed a neutral salt. Our list of substances found in plants is this reduced from things which you did not know, to things which you do know; and so we have saved the troubles of learning more of their chemistry.

We have reduced the niry or volati'e inharder to learn them the chemical terms. super, we say fine and superfine; so kali, to water, formedofoxygen and hydrogen; Now I fear that some persons, who have is bitter, or realy alkali means, the "dregs or volatile alkali, formed of nitrogen and followed me thus far, will shut up the of bitterness." I wish, reader, for your hydrogen; or into acids, as the carbonic. book. It is, say they, all stuff, book- own sake, as well as my own, that you formed of oxygen and carbon—as the farming, and beyond us. If one may not should fix your mind what I have said sulphuric, formed of oxygen and sulphur understand what manure is without t is about alkali and alkline properties. —as the phosphoric, formed of oxygen learning, we may as well begin where Alkali is a general term. It includes all and phosphorus; and having thus got our fathers ended, and that was where those substances which have an action water and acids, these waite with all the our forefathers began ages ago. By a like the ley of wood ashes, which you use aikaline, earthy, and metallic bodies, and little law, however, picked up as a jury- for soap making. If this by is boiled form salts. To give you new examples man, or witness, selectman, townclerk, down dry, you know it forms potash. Now of these, I may mention Glauber's salts justise of the peace, yen, perhaps, hear-linne, fresh slucked, has the alkaline pro- and Epson salts. Gauber's sails is forming an indictment read, men do come to perties of potash, but weaker, and so has ed of sods and solphuric acid; Epsom same remark applies to other descriptions understand what a lawyer means when the calcined imagnesia of the shops, but salts, of magnesia and sulphuric acid; of grain; and the whole is not only re-

acid; chalk and limestone, of lime carbonic acid. These are all examples of salts; that is an acid, or substance acting the part of an acid, united to an alkali metal, or earth.

To be Continued.

THE CROPS IN EUROPE.

ENGLAND. - The accounts throughout. all parts of the kingdom are most favourable and encouraging. The seasonable change which has taken place in the weather has givenero vegetation a new vigor, and forced forward the growing crops with an astonishing rapidity. In Lancashire the wheat crop is expected to start into ear in the coming week; the spring corn is much improved by the late rain, and the potato crop looks most luxuriant.-From Suffolk, the want of rain had put a check to vegetaion; notwithstanding, wheat looked well, and the potato never had a better appearance. The crops in every part of Cambridge are in most promising condition.—Favourable accounts have been received from Somersetshire; the crops in general had a healthy and promising appearance.-In Nottinghamshire the crops of all descriptions are described as looking very luxuriant.-In every direction in Wiltshire the grain crops have a favourable appearance, and an early harvest is anticipated. The contrariety of opinions with regard to the existence of disease in the potato is amply sufficent to induce a a proper degree of circumspection in receiving them; it is quite evident, however, that in some localities the disease has put on so positive an appearance that a denial is as absolutely impossible. In the majority of instances, where reports have been made up to the present time, the balance of testimony is of a cheering nature. In the neighbourhood of Devizes the crop never looked more healthy.-From Cumberland we learn that the harvest is untic pated three weeks ear-lier than last year. The wheat crops in the neighbourhood of Ravenglass, Bootle, Millom, and Broughton, are remarkably promising. Potatoes were scarcely ever known to wear so lux priant an appearance, and without the least symptoms of the late disese.—Around Cockermouth they present a most luxuriant and healthy appearance, and. It is stated that around Dalton, in the early gardens, disease has appeared.-Wheat looks well in Kent, and with fine weather there is every appearance of an early and abundant harvest. In Dorsetshire the wheat; barley and oats, were never seen in finer condition. The potatoes are still healthy, except in a very few instances.— In Lincoln the crops are also described as having never been in a more flourishing condition: the prospects of an abundant harvest are of the most cheering description.—In Worcester the wheat is ready to burst into car; turnips and potatoes are looking well, and there is as yet no indication of disease in the potato.-The rich verdure of the crops in Cornwall is truly wonderful. Around Penzum potatoes are very healthy in appearance. -From Yorkshire the accounts are very favourable. A correspondent from Doncaster writes:-" The wheat lands are making extraordinary progress; and there never was known a season in which with regard to this discription of grain, a richer luxuriance presented itself. same remark applies to other descriptions he talks. So, too, by a little chemical in less degrees than line. Here we alum of alumina or clay and sulphuric markably healthy and vigorous, but protable, a man may learn what a che inthe two substances, earthly in their acid; green v trol, of iron and aulphuric mises, provided fine weather continues means when he talks of oxygen, hydroman substances, earthly in their acid; green v trol, of iron and aulphuric to prevail, an early harvest." In Bedgen nitrgen, chlorine, and carbon; potage are called, therefore, alkaline earth. But acid; plaster of paris, of lime and phosphoric toes have not looked so vigorous; all

the growing crops of every discription are looking luxuriant, with the prospect of an abundant yield. The potato crop never looked better.—From Sussex we learn that the wheat is looking most luxuriant, and has in many places come out into ear. If he backey and oats are looking remarkably well, although the latter is the short in the straw. The potato op still wears a most healthy appour Se.-[Willmer & Smith.

How to preserve Giroleo Trees. Mr. Pliny H. Badditt, of this town, showed us, a few days since, an apple tree in his orchard which two years ago last winter, was completely girdled by mice, for the space of about ten inches around the trunk which was a little less then a foot in diameter.-Soon after the snow was gone, Mr. B. took several thrifty spouts from the tree of sufficient length to span the girdled part, and champering off the ends inserted one in the bark below the girdle and the other above with wax, left them. One of these sprouts lived, and the tree bard as usual the ensuing summer. This year the tree is again in full blosom, drawing its entire sustenance through this spront, which has grown to about 3-1 of an inch in diameter. The tree has a heavy top, and the girdled part, or about one foot of its trunk, close to the ground, is entirely dead .- Barre Patriot

Incomnustrate Wash -Slack some stone lime in a large tub or barrel, with boiling water, cover the same up to keep in all the steam. When thus slacked, pass six quarts of it through a fine sieve. It will then be in a state of fine flour, Now, to 6 quarts of this lime add a quart of salt, and one gallon of water; then boil the mixture, and skim it clean. To every five gallons of this mixture add one pound of alum, half a pound of copperas, by slow degrees, three quarters of a pound of potash, and four quarts of fine sand, or hard wood ashes, sifted. This mixture will now admit of any coloring matter you please, and may be applied with a brush. It looks better than paint, and is as durable as slate. It will stop small leaks in the roof, prevent the moss from growing over and rotting the wood, and render it incombustible from sparks falling upon it. When laid upon brick work, it enders the brick impervious to rain or wet.

CEMENT FOR FLOORS.

It is often desirabe to have floors rat proof. The following receipe was procured by J. S. Skinner, from Col. Totten, of the U. S. Engineer Department:

The mortar is to be made of one part of hydranlic cement, measured in rather stiff Then one part mortar, thoroughly mixed, is to be used with two and a half parts of broken stone or bricks, the largest piece not exceeding four ounces in weight. or of gravel of similar sizes, or of oyster shells, or of either or of all these mixed together. The coarse materials must be free from sand or dirt. The concrete thus made must be put down in a layer of not more than six inches, which will be about the proper thickness for the floor; rammed very hard, and until the coarse particles are driven out of sight, care being taken to bring the top of the mass into the true place of the floor by the first process; no subsequent addition of plaster being admissable. By the help of a straight edge drawn over guide pieces, the top surface may be made smooth and even by the first operation. The consoon as finished, with straw or hay, which proof enough of its existence, should be kept wet for several days, the longer the better. [-Boston Cultivator.

COMPARATIVE MERITS OF HORSES AND OXEN FOR FARM WORK.

At the Gloncester (England) Farmers' Club, a member " stated the result four years' experience, whereby he was convinced, that for field labour, with the exception of carting, oxen were superior to horses. He found that a team of four oven could plough as much, and with as much case, as three horses could; the cost of the former not ex-

for while his horses cost him 7s per head per week, his oven did not cost him more than mode of propagation, and adopt that which ts. He usually began to work his steer when they were two years and a half old, and found them capable of ploughing an acre a day throughout the year, if required: and setting uside the saving in the first outlaymaintenance, harness, and attendancewhich was very considerable, the sale of the oven produced on an inverage a profit of \$\Ci\$ American Agriculturist, and will no doubt per head per annum. He therefore strongly be interesting to those who are willing to recommended that on all in ble farms required awail themselves of the improvements of othering two or more teams, obtained should be countries. The Dutch are famous for cheese be received, but a much greater advantage making; a superior article of their manufacoxen. By so doing, not only would a profit would be conferred on the country by having ture is sent into all parts of the civilized to sell that stock, which, when fed, makes (world. We have seen it sold in this city by the best of all anomal ford-good beef -mstend of supplying food for dogs, which is the case on most farms."

TO CORRESPONDENTS.

C. P. H. The information ne want is simply the appearance of the Crops, your own success and fature prospects, and any facts At all events we can safely say that there is relating to Agriculture that may be of gener- from for considerable improvement among al interest.

mitted your subscription, we have not heard Mr. Norton, an intelligent correspondent of of it. Will you be good enough to act upon our New York contemporary :your promise.

CANADA FARMER.

July 17, 1947.

17' Mr. Charles P. Hall is our general agent for the Brock District. We trust the friends of Agriculture in that part of the province will aid him by their advice and support. We have a considerable amount of our back numbers on hand, which, we think which cannot be too carefully avoided. those who have read them will admit, contain a great deal of useful information worthy of being preserved. To persons who subscribe should be provided with covers. As soon as for the paper now, our agents are authorised the milk is brought to the house it should be to supply the first volume for one dollar. provided with covers. As soon as the milk Save us from the man who can have a conscience to ask it any cheaper. Will the far- then to be carefully covered so as to retain as mers of this country -destined to be in every much as possible of the natural bent of the sense a great country-remain indifferent to milk. Three or four hoursafter the addition their best interests, and allow one of the most of rennet to the milk it must be strained, and efficient instrumentalities in the elevation of most; the curd slowly broken with a wooden instru-efficient instrumentalities in the elevation of mont; this is uninterruptedly continued until their social condition, and in securing their (the curd has become fine and separated from individual and general prosperity as farm, the whey. After this it is left to settle four ers, to die for want of support? Although hours, to separate as much more of the whey quite a number of persons have unsolicited quite a number of persons have unsolicited hand, separating still another portion of the uniter names, yet unless our subscription. After this working it is placed in tion list is considerably extended we shall not the cheese press and worked anew to render feel warranted in beginning a second volume.

THE POTATOE DISEASE AGAIN.

We are sorry to find that our apprehennons are likely to be realized to their fullest haid a weight corresponding to the intended extent in the reappearance, or rather the progressive development of the potatoe malady. Last Wednesday, for the first time this year, we observed the plain effects of the disease in a mess of fine looking kidney potatoes, at a public dinner table in this city. They were grown somewhere in the neighbourhood for early use, and were not more than two-thirds of their full size. We could not find a single one, large or small, which when cut with the kinfe, did not exhibit the moved, and it is placed in the ' pickle-float; dark-coloured spots-unmistakable signs of the part floating above the pickle is covered sure and speedy decay. The circumstances under which these were grown probably favoured the early development of the disease. but there can be little doubt that when the this it is liable to crack the cheese. crete should contain no more water than is period arrives at which it has usually made necessary to give the requesite plasticity to the mass. The floor should be covered as its more general appearance, we shall have

We believe it will be found to have extended itself more widely this year than in any previous one, for although, as we remarked in a former number, there may be an absence lafter which it is placed on the stand or of some of the aggravating cocumstances of shelves, and should be turned at least once other years, yet the cause of the fatal results a day. other years, yet the cause of the fatal results is still in operation. Every reproduction is a step in the downward scale; the evil will to about 21 lbs English). therefore go on increasing until the true course in taken to arrest and remove it. We must in this case reverse the process usually ceeding £12 per licad, while the latter would adopted, and instead of going to the bottom of

other crops are looking well,-In Hants | nance was decidedly in favour of the former, | must give our attention to the top of it. Re- | than fifteen degrees, and for the pickling-tub turn to the seed. Abandon our unnatural the all-wise creator has provided.

DUTCH METHOD OF MAKING " GOUDA CHEESE."

The following article is taken from the American Agriculturist, and will no doubt countries. The Dutch are famous for cheese some of our grocers at one dollar per lb. Now we have the milk, and if its quality is not good enough, we can get better cows and give them better food, and thus get better milk, with which if we adopt the same process, we see no reason why the same results may not be obtained in Canada as in Holland. our dairy farmets in this country, and we II. B. Montreal, If you have ever trans- recommend to them the information given by

> With a view to the gratification of your cheese-making subscribers. I send you this month a translation of directions for the manufacture of the celebrated Gouda cheese. considered by the Dutch themselves as their choicest variety. These directions were tables given by Berzelius it is stated that a sapublished by some of the largest dealers in turated solution of common salt contains 29 cheese of Rotterdam.

Experience has shown that, in the following summer, and in accordance with the accompanying precautions, cheese can be made which has neither bitterness, toughness, nor want of solidity, defects very common, and

In the commencement, care should be taken that the sun does not shine upon the milk; the vessels in which it is received is brought to the house it should be strained into a tub, and the rennet added, the tub as possible. It is now kneaded with the it fine again, and also by this it is strongly packed into the press, which, being full, cloth is laid over it, and the cheese turned over. The bottom now turned up, being broken, is smoothed by the hand, and covered by the follower. Upon this follower is weight of the cheese.

The cheese must be turned every hour, and after three hours taken from the press, the first cloth replaced with a dry one: it is hen again covered with the follower, and the weight laid upon it doubled, care being had that the side that was before under is now above; the cheese is pressed mae hours by this weight, and must be turned once in three hours.

At the end of nine hours the cheese is again taken from the press, the cloth is rewith coarse sait to the thickness of 3 guidens (about the same as three dallars in thickness). This pickle must not be stronger than fifteen degrees of Baume; if it is used stronger than

The cheese remains in this pickle twenty four hours, and during this time is turned twenty degrees Baume, in which it is turned with salt. At the expiration of eight or mor days, it is taken from the pickle and was, ad.

All of the above directions have reference

Principal rules to be observed.

- 1. Never to employ warm water or whey in the working of the cheese.
- 2. The pickle for the rennet as well as for cost £25 per head. The cost of mainter the matter-to the root of the mischief-we the floating vessel, must not be stronger be said with certainty that blindness is the

must always be twenty degrees of Baume.

- 3. The bottom of the cheese press should be as flat as possible.
- 4. Whitever the weight of the chrese, the ourd must be finely divided, and the whey perfeetly pressed or wring out.
- 5. In warm weather the cheese requires more sult, and is thus more quickly salted. Seven or eight days in summer, when the air is warm, are equal to ten or twelve days in cold weather or in nutuing.

Directions for the preparation of Datch Rennet.-For twenty-five lebber (the Dutch name for the calves' stomachs), take seven Netherlands pounds of pickle of fifteen degrees Baume. The lebber must be cut in bits of the length of a balf finger. The pot containing it should be well covered, and set in a warm place. Aften ten days the solution becomes good, but if illowed to stand twenty days it should then be strained through a muslin cloth, or a very fine sieve, and preserved in air-tight bottles. Not more than two table-spoonfuls of this are necessary for ten Netherlands pounds of cheese.

This renuet should thoroughly curdle the milk in three-fourths of an hour; if sooner than that, it is too strong, and if longer a little more must be added to assist its operation.

Reference is made above to fifteen and twenty degrees Banme. This is an instrument contrived by M. Baume for measuring the strength of solutions by their density. have not his tables by me, but as nearly as I can calculate that pickle of 20 degrees, referred to, contains about 21 per cent of sult, and is therefore very strong. In one of the per cent of salt.

JOHN P. NORTON.

LIGHT IN STABLES.

Mr. Stewart, the celebrated Veterinary Surgeon, in his "Stable Economy" makes the following remarks, in his usual terse and happy style, on the bad effects of dark stables. In England and Scotland (for which he wrote) the evil was probably worse than in this country. There is no excuse for thrusting a horse into a dungeon here. Windows are not taxed, nor is space much of an object. One fault in the construction of stables, which Mr. Stewart vehemently condemns, is insuficient ventilation. There is not much ground for complaint in Canada on this score. There are generally holes enough for that purpose, for if it intered into the original plan to leave spaces for one or two windows, you will find in nine cases out of ten that they are boarded up in a careless manner, or stopped with straw. It is managed to exclude the light at all events. Henr, ye horseowners of Canada, who "love darkness rather than light," the opinion of an experienced writer on the subject :-

" Most people seem to think that light is little wanted in a stable ; and, truly, after all the horses have become blind for want of it. there is not much need for windows. There is in general some kind of apology for a window. There may be a pane or two of glass above the door, or a hole at one end of the stable. When the man is working he has light enough from the door, and the horses mve the benefit of that. Besides it is said. horses do not require light. They thrive best in the dark!

From these and similar abuses, inprovaion always meets with some resistance. Some miserable plea is offered in favour of an old usage, merely to avoid open conviction of ignorance. Dark stubles were introduced not because men thought them the best, but because they had no inclination to purchase light, or because they thought the horse had no use for it.

A horse was never known to thrive better twice, always taking care that it is covered for being kept in a dark stable. The dealer with salt. It is now placed in a pickle of may hide his horse in darkness, and perhaps he may believe that they fatten somer there once in twelve hours, always being covered than in the light of day. But he might as well tell the truth at once, and say that he wants to be p them out of sight till they are ready for the market. When a horse is brought from a dark stable to the open air. he sees verry indistinctly; he stares about him, and carries his head high, and he steps to cheeses weighing ten Duch pounds (equal high. The horse looks as if he had a good to about 21 lbs English).

Dark stables may thus suit the spurposes of dealers, but they are certainly not the most suitable for horses. They injure the eyes. There is not perhaps another animal on the earth so liable to blindness as the horse. It can not

cause; but it is well known that the eyes suffor most frequently where there is no

Whether a dark stable be pernicious to the eyes or not, it is always a bad stable. It has too many invisible holes and corners about it, ever to be thoroughly cleaned. The gloomy dimerons in which host and coach horses are so often munimed are always foul. The horses are attended by men who will not do their dury if they can neglect it. The dung and the irrine he forming for weeks together, and contamina ing the air till it is unfit for The horses are never properly groomuse. The horses are never ed. They cannot be seen.

All these things considered, it is evident that the stable ought to be well lighted, and that the expense attending it is a prudent When side windows can not be conveniently introduced, a portion of the hay loft must be sacraiced, and light obtained from the roof. This, in ordinary cases, will not be greatly missed. Let it be well done, if done at all.

CATTLE.

A table of the comparative value of different kinds of fodder for cattle has been published by M. Antoine, in France, and is the result of experiments made by the principal agricul-turists of the continent, Theer, Gemerhausen, Petro, Rieder, Weber, Krantz, Andre, Block, De Dombasle, Boussinganit, Meyer, Plotow. Pohl. Saice, Caud. Schwertz, Palist. It is unnecessary to give the figures which each of these experimentalists have set down, but the mean of their experiments being taken, there is more chance of the result being near the truth. Allowance must be made for the different qualities of the same food on different soils and different seasons. In very dry summers the same weight of any green food will be much more nonrishing than in a dripping season. So likewise any fodder raised on a rich dry soil will be more nourishing than on a poor wet one. The standard of comparison is the best upland meadow-hay, cut as the flower expands, and properly made and stacked, without much heating; in short, hay of the best quality. With respect to boy, such is the difference in value, that if 100 lbs of the best is used it will require 120 lbs of a second quality to keep the same stock as well, 140 lbs of the third, and so on, till very coarse and hard hay, not well made, will only be of half the value, and not so fit for cows or store cattle, even when given in double the quantity. hay alone will fatten cattle, inferior hay will not do so without other food.

100 lbs. of good hay is equal unnourishment to

102 Lattermath hay

90 ., ., hay-made Clover, when the blossom is completely developed.

88 Ditto, before the blossom expands.

98 ., ., Clover, second crop, is equal in nourishment to

98 .. . Lucerne hay

89 . . Sainfoin hay Tare bay 91 ,, .,

90 ., .. Spergula arvensis, dried

146 ., .. Clover hay, after the seed

410 Green clover 457 ., ., Vetches or tares, green

275 ,. ,. Green Indian curn

425 Green spergula

325 ., ,, Stems and leaves Jerusalem artichoke

511 " Cow-cabbage leaves 600 Beet-root leaves

300 ., .. Potato halm

374 .. Shelter wheat-straw **

442 ., .. Rye straw 192 " .. Out straw

Peas linim 153 ,,

159 " " Vetch bulm

140 ,, Bean halm 195 " Buckwheat straw

170 " Dried stalks Jerusalem artichokes 400 .. Dried stalks of Indian corn

250 ., Millet straw

201 ., Raw Potatoes 175 .. " Boiled do.

220 ,,

White Silesian beet Mangeld Wurel 639 "

276 .. " Carrots 287 ., " Cohlkalis

308 ., " Swedish turnips

350 ., ., Ditto with leaves on

54 ., ., Rye " Wheat 45 "

54 Barley

59 ,, ,, Oats

50 ., Vetches 45 " " Peas

45 ,, " Benns

.. Buckwheat 64 ,,

57 .. " Indian corn " French beans, dried 32 ,,

47 " " Chesnuts

68 ,, " Acorns 50 ., " Horse-chesnuts " Sun-flower seed 69 ., , Linseed cake

105 Wheat bran

109 ... Rye Bran 167 Wheat, pers, and out chaff

179 Rye and barley chaff 73 Dried lime-tree leaves

83 oak lenves 67 Canada poplar lenves

Lattermath hay is good for cows, not for horses. The second cut is generally considered as inferior in nonrishment to the first. New hay is not wholesome. At Paris, when a load of 1000 kilos is largained for, the seller must deliver—if between haymakmg and October 1, 1300 kilos—from October 1 to April 1, 1100 kilos—and after April only 1000. This is fair, and allows for loss of weight in drying. In London, a load of new hay is 20 ewt; of old hay, only 18 ewt.

The dried balm of the Trifolium incarnatum, after the seed is ripe, is little better than straw. Clover, lucerne, and saintoin are generally supposed to lose three-fourths of their weight in drying; but in general they lose more, especially in most climates. COMPARATIVE VALUE OF DIF- where the sap is more diluted. When FERENT KINDS OF FODDER FOR touched by the frost they become very unwholesome, and should never be given to cattle except quite dry.

Straw is, on the whole, but poor food, and unless cattle have something better with it. they will not keep in any condition; when given with turnips or other roots, straw corrects their watery nature, and is very useful; ent into chaff it is very good for sheep when fed on turnips and od-cake, and when newly thrushed is as good nearly as buy. By a judicious mixture of different kinds of food, a more economical mode of feeding may be substituted for a more expensive one, and the same result obtained. The value of straw depends much on the soil: a very clean crop will not give so nourishing straw as one containing many succellent weeds. Pens and vetch halm are superior to straw, especially when cut into chaff: it is by some thought equal to hay. The same may be said of bean halm not left too long in the field, and cut before it is completely dry. Buckwheat halm is of little value: it is thought unwholesome if given to sheep.

16 lbs of raw, or 14 lbs, of boiled potatoes will allow a diminution of 816s of hav

Turnips will feed store pigs, but they will not fatten on them. Carrots and parsnips are excellent for horses, and, when boiled, will fatten hogs. Ruta-baga is liked by horses: it makes their coats fine, but must not be given in too great quantity, or it will gripe them.

FEEDING.-A certain quantity of food is equired to keep an animal alive and in health: this is called his necessary ration of food; if he has more, he will gain flesh, or give nulk or wool.

An ox requires 2 per cent of his live weight in lary per day: if he works, he requires 24 per cent: a milch cow 3 per cent: a fatting ox, 5 per cent at first ; 44 per cent when half fat; and only 4 per cent when fat; or 41 on the average. Sheep grown up take 31 per cent of their weight in hay per day, to keep in store condition.

Growing animals require more food, and should never be stiuted .- [Journal Royal Agricultural Society.

GREEN PEAS FOR WINTER.

The lovers of green peas will be pleased to learn that they can be preserved for winter use, by simply gathering them at the proper season for using them green, shelling them and drying them in the shade, and when well cured and perfectly dry, packing them away

When required for use they should first be immersed in warm water for ten or twelve hours, which will render them as tender and deliciously succulent as when taken from the vines. The best method of preserving them. after they have been thoroughly cured by the above process, is to put them into close jurs or bottles. In this way, not only greer, peas, but green beans and green corn may be had the year round .- [Furmer & Mechanic.

IMPROVED CANUSE-WICKS.—An improved candle may be made by steeping cotton wicks in limewater, in which a considerable quantity of sultpetre (nitre) has been dissolved. By this means is obtained a pure flame and a superior light; a more perfect combustion is ensured; souffing is rendered nearly as auperfluous as in wax lights; and the candles thus made do not run nor waste. wicks should be thoroughly dry before they are covered with tallow, otherwise they will not burn with a uniform, and clear light.

How TO MAKE GOOD TEA.—Boil rain water and pour upon your tea, letting it steep from one to two minutes if you wish to realise the true taste of the "plant divine."

river, or spring water, in many parts of the country, is strongly impregnated with lime, which acts chemically on the tea-lenf, and greatly deteriorates, or destroys its fine aromatic flavour. In fact, water, containing lime, or much vegetable matter in solution, has more or less effect on all kinds of cookery. Besides, it is highly injurious to the health of most persons.

HOW TO MAKE GOOD VINEGAR.

Common household vinegar is usually obtained from wine, eider, beer, malt, fermented sugar, molasses, &c. the alcohol contained in them being converted into acetic acid by the absorption of oxygen, which is more or less intermixed with gum, sugar, and other vegetable matter. The principal requisites necessary to form any of these substances into good vinegar, are, contact with the air of any temperature between 70° and 80° F., the presence of alcohol, and the addition of some extraneous vegetable matter to promote the scetous fermentation.

Pure, unadulterated cider-vinegar, reduced to a proper strength, is considered the best for general use in this country, and is always attainable by those who possess apple-orchards or eider of their own, and should be more abundantly supplied in market than it is. An excellent article may be made by putting away good strong cider, without adding anything to it, in one or more substantial casks in a warm place under cover, with the bung-holes open, but covered with fine gauze, in order to admit the air, and there let it gradually undergo the necessary fermenta-If the casks are frequently shaken, and their contents occasionally drawn from one to another, the process is Imstened. When fit for use, a small portion of the vinegar should be drawn from each cask, and its place supplied with a like quantity of cider that is fresh. In large establishments the operation may be carried on with a number of casks at once, worked in pairs, by commencing with one filled with good vinegar and another of the same capacity filled with pure order. First draw out a quart or a galion, as may be, from the cask containing the vinegar, and replace it with an equal quantity from that which contains the ender. by continuing the operation daily, for some weeks, one or more hogsheads, of good, wholesome vinegar may be formed, without the addition of any foreign or injurious mate-When sufficiently sharp, the vinegar should be drawn off into smaller casks or bottles, tightly bunged or corked, and put way in a moderately cool place for use.

A superior vinegar may be made by filling a barrel one-third full with strong cider, reduced by freezing, and letting it stand with the bung-holes slightly covered for at least nine months. If the fermentation does not proceed with sufficient rapidity, a few quarts of the liquor may be withdrawn, boiled for a short time, skimmed, and then poured back into the cask.

A vinegar of good strength may be produced by putting 6 lbs of sour yeast made of leaven and rye-flour, mixed with hot water, into a cask containing 100 gallons of good cider, agitating the whole with a stick, and then let it remain for six or eight days. It is necessary to draw off this vinegar and bung it up close, as soon as it is made, otherwise it will quickly grow vapid or flat.

Those who have not cider or grape juice, at their command can make a tolerably good vinegar, by any of the following directions, which we copy from Cooley's "Cyclopædia of 6000 Practical Receipts," but it will be less pure and more liable to spoil, than that made from cider, malt, or wine:

Sugar-Vinegar .- Add brown sugar, 4 lbs. to each gullou of water, and proceed as with

German Household Vinegar.-Take soft water 74 gallons; honey or brown sugar, two lbs; cream of mrtar, 2 ounces; corn-spirit, one gulion. Ferment as above.

To prevent mouldiness in vinegar, the following methods have been proposed :- Conworked; or boil it in a well-tinned kettle for a quarter of an hour; put it in uncorked bottles; place them in a kettle of water with their necks above the surface, and let them buil for an hour; then take them out, cork them up, and the vinegar will keep for several years without growing mouldy or turbid. -[American Agriculturist.

CROPS IN THE UNITED STATES. The Boston Traveller, (Massachusetts). says the crops in that neighbourhood promise an abundant larvest. New wheat has arrived in market at Saint Louis. In Virginia the wheat crop has been harvested, and is said to be good both as to quality and yield. In Georgia it is said the crops will turn out very well. From other States we have no late Well, accounts.

Civil and Social Department.

PRICES OF GRAIN IN ENGLAND AND IN CANADA.

Few of our farmers who have given any attention to the subject but must have noticed the very wide discrepancy between the prices which they receive for their produce here and the prices which the speculators receive for it in the English market. Cupidity is explained as a necessary caution; rained speculators are pointed out to quiet the complaints of the farmer, and he becomes reconciled to his fate, or expresses his sad conviction of the necessity of some more reliable and less expensive agency by which to convey his grain to the English consumer than that of the spiritless merchants, cramped in means or enjoying that species of monopoly which ever arises from the absence of necessary competition; but this expression does not go beyond an unmeaning murniur: it leads to no practical result: produces no remedial measure. Years pass away and the same system continues. The Banks are partial, nigardly, illiberal, or unfair in their discounts, which they confine to a comparatively few merchants, who contrive to get a monopoly of the market. The Banks, in fact, hold the purse-strings of the country; the merchants whom they favour are generally Stock-holders, so that in reality their favours are confined to themselves. Here is the neucleus and the strong-hold of a monopoly. A paper currency thus mismanaged produces evils which are not the necessary results of the system, but only the inseparable concomitants of its abuse. The partiality and favouritism which attend the whole system of bank discounts necessarily prevent competition among boyers, and compel the farmers to take such prices as are offered to them by the few merchants who have practically a monopoly of the market. To this cause, in a great measure, may be traced the fact, that on almost all occasions the price of wheat is much higher at New York, Boston and Portland than at Toronto, Hamilton, Kingston and Montreal. We have no desire to mislead the reader by assuming that this is the sole cause of the discrepancy in the price of produce in the Canadian and in the American markets. We are free to admit that higher freights from Quebec than from New York and Boston to England, add their quota towards producing this result. But the evil, we insist, does Our merchants want the spirit of honourable competition; they are too few in number and too needy; the farmer wants to he insured of fair prices. Merchants, on the other hand, would be very foolish to act recklessly or run imminent risk of ruin. There is great difficulty in calculating the probable state of the English market some months hence. Merchants must, therefore, have a wide margin to cover the chances of possible loss. They may be occasional losers, but on the whole their profits must be large. How then are we to rid ourselves of the expense entailed by this uncertainty. the want of spirit, capital and competition amongst grain buyers, and the juggling system on which our banking operations are conducted? Shall we mend the old machine or construct a new one? If we determine to take the former course, how is it to be done? We cannot infuse honour into the breast of avarice centrate by freezing or by distillation; put by legislation; we cannot by legislation creup the vinegar in bottles and keep them well- ate new capital and a new race of merchante; and it is questionable whether we can convert Bank monopolists into impartial dealers in money, and divest them of all arbitrary controul over the monetary affairs of the country. No: legislation has not the talismanic power to metamorphose corruption into virgin purity. to infuse life into the motionless corpse of the commercial body, or to call into being a new, energetic race of merchants. The present system must be superseded. The farmers must move in the matter. They must assist in bringing about the necessary commercial reform.

We are not merely dealing in vague specuintione and propounding impracticable theeries. As the organ of the farmers of Western Canada, we have had communicated to us the outlines of a plan of vast importance to their interests; and the carrying out of which is destined to produce a complete revolution in the present clumsy system of commercial agency. The plan, which has been exclusively communicated to us, is this: A commercial house in Scotland, strictly responsible. propose to commence a commission agency in Canada produce; to forward to their agent here a given amount of capital, from which he is to make advances of, say 50 per cent on the price as determined by the latest arrival. on the shipment of the grain at our parts. consigned to the firm in Scotland, who are to effect sales, and place the balance of the proceeds in the hands of their agent here. through whom it is to be paid to the farmer, the commission-merchants retaining a reasonable commission for their services. By this plan the farmer will, in fact, become his own merchant, and the profits which now go into the pockets of speculators will go into his.

Of course the perfect responsibility of the agents must be shown, or rather the farmer here must have some fair tangible security that he will not lose from their dishonesty or

Such is the plan which we are enabled to consideration. That it will meet their approval we cannot doubt. Satisfied of the responsibility of the parties transacting the busest price, whatever it may be, current in the English market. At present it often happens that the grain before it reaches the conaumer goes through the hands of three sets of speculators, each of whom abstracts a profit from the price. The Upper Canada speculator sells to the Montreal speculator, who sells to the English speculator, and through him it reaches the consumer.

We have fairly explained the causes of the the system reformed or not.

THE UNIVERSITY QUESTION.

a measure (which we feel satisfied a large friends to look after him. majority of the people will strongly object to) | If there is to be no University, and upon which yields now about £10,000 a year, is and Regiopolis. £125 per annum is to be ap- assuredly follow those who enact it.

proprinted (if there be any to appropriate) to the assistance of the District Schools, and there is also a flourish about Agricultural schools, and Model Farms. But where are the funds to come from? " In tend of the oresent unproductive school lands the government will according to their promise (so it is worded in the Montreal papers) made in 1835, give a similar number of acres of the best and most available lands of the Crown." These "will, in a short time [all conjecture, something in the clouds! | generate a fund of £4,000 to .£5,000." Out of this, .£2,500 is to be first taken for Grammar Schools. The remainder! [of this supposed revenue] "will be expended, first, in giving £500 to each District, which will contribute .£250" for the purpose of "building a commodious Grammar School." There are, we believe, 20 Districts, so that if they all accepted so advantageous an offer it would require £10,000 to supply them! "Then," the statement gravely continues, a second, to establish a model agricultural farm, with a practical agricultural master in the vicinity of each Grammer School, to be paid a moderate salary and to have the profits of the farm!! It is well the sum was not mentioned that would be required for these purposes. We fear it would have been transparent that our legislaby before the intelligent farmers for their tors know about as much of the nature and expense of model farms, &c., as they appear to know of the wishes of the country or the doctrine of chances. After nearly half the mess, they will be certain of getting the high- land (in value) and . £3000 are given to the Church of England, and £1500 each to the three sects, or rather to their Ministers, for their people will derive little benefit from it; and £2500 to the Grammar schools; and after the Government have performed a promise made twelve years ago, and given some of their best (wild) lands, and these have been sold or become cleared and yield a revenue of .£4000, and after .£500 have been given out of this to each District, then model wide discrepancy in prices of grain in Eng- farms are to be purchased and set in operation land and the Canada market. It is now for jout of the "REMAINDER"! The interests of our farmers to say whether they wish to have agriculture are to be cared for by our legislattors after all! Yes, after all. Will any farmer (and we can tell our Ministers that there are a goodly number who think more of Although it was hinted in the early part of the public interests than of the interests of the Session, that the Government did not religious seets, and they are daily increasing.) intend to bring in any Bill on this subject, be gulled by such silly calculations—such yet they have come down to the House with arrant mockery? If so, we would advise his

and it is said, intend to urge it through Par- the proposed plan there will be none, in the liament at once. Its chief points are the fol- name of all that is honest and sane, give this lowing:-The Endowment. i. c. the estate splendid endowment to the people; let superior Schools be established in every township to be split up, one half in value, (according to of the province; talk then of Agricultural the statement of those who know its value,) | Musters and model farms, and let our is to be given to the Church of England, and i purse proud and purse made Aristocrats send £3,000 a year out of the remainder; £.1,500 their sons to Cambridge or Oxford which a piece is to be given yearly to the three fol- they so much admire. But rob not the lowing bodies: the Residuary Presbyterians, country of that which was given for the genthe English Methodists, and the Catholics, | eral good, to purchase the support of two or The Church of England is to get the build- three sects. Where did they get the right ings and land in the neighbourhood of Toron- to enjoy exclusively, what was intended for to, while the other favoured bodies retain all? Shame on the proposer of so atrocious a their own Colleges, viz., Queen's, Victoria, measure. The executions of posterity will

Some alterations have been made in the proposed rates of duty published below. They are, however, few in number, and we shall take occasion to specify them in our next-The following table will be valuable for reference; our readers, therefore, if they have not preserved the previous numbers, will do well to lay this one by for future use. There are very few but have occasion some time or other to know the rates of duty :--

ESTIMATE OF THE AMOUNT OF CUSTOMS' DUTIES FOR 1817, AT THE RATES PROPOSED BY MR. CAYLEY. THE CALCULATIONS BEING FOUNDED OF THE IMPORTS IN 1846.

ESTIMATE

Of amount of Custons' During which would accrue at the proposed rates, taking the Imports of 1846, as data.

No. 1.-SPECIFIC DUTIES.

Under the old Acts all Specific Duties were calculated at £1 44, 44. Currency the £ Sterling.

PRESENT RATE OF DUTY. Proposed Rate Totals ARTICLES. Provincial Imperial

	Present. Proposed.	
	`ree 24 6d '' 24 6d '' `ree 304 '' 354 ''	
Kuls "	Free 2 6d 4 2 6d 4	
	free-contact la " la "	
	'ree 30s 4 35s 4 'ree 6d 4 6d 4	
	'ree 5d " 5d "	
Sheep "	'ice 2. " 24 " 6,505	6 6
Cocoa	Is per cwt Id per lb Id per lb	
Green Coffee		
Reasted do " !	∗ં " શ્રા " શ્રુંતાં "	
Ground do "	.,,,,,	5 4}
Wax Cundles	7 per cent 2d - " 3d - "	
Tallow do	3 1.4 4	
All other do "	5 24 " 500	0 3
Salt or Dried Fish		
Pickled dobrls		2 101
Almonds		33 0
Apple	Free tid per bahl tid ner bahl	
Do Dried	ner cent 1a. " 1a "	
Currentslb	' 5« per cwt lil per lb	
Figs	" 3d per lb 1d "	
Pearson	freu la per bald la per bald	
Praches	Tree	
l Quinces u-hle	l ner cent 10 per cent 1s per bshl	
Raisine Boxes	" ld per lb l per lb	
Barleyqr		17 2
Buckwheat "	ree	
Maize "	Free	
Rye, Bean, and Pears	Free	
Wheat	Free	
Ment brl	Free 24 per brl 24 per brl	10 4
Hops b	Free 3d per Cwt 3d per Cwt 3,543 A per cent 3d per lh 3d per lh	IA Q
Indian Rubber Boots and Shoespairs	a per cent 30 per 10 30 per 16 4	2 43
Women's Boots and Shoesdoz	" 54 per dozen 64 6d per dox	-4
Girl's Boots and Shoesdoz	7 " 2 - 6d " 2 - 6d "	
Men's Bootspars Do Shoes "	7 " (id " 7 Å "	
Boys' Boots "	7 " 9d " 14 "	
Do Shoes	7 " 4d " 4d "	
Leather, and under 3 inches doz	4 " 5 per cent la 6J per dox	
m length	1,044	1 13
Goat Skinedoz	l percent 54 per dozen 54 per dozen 1 " 24 fil " 24 fil "	
Calf Skins	1 '' 24 fid '' 24 fid '' 4 '' 4d per lb. 4d per lb	
Kip Skins "	4 " 2d " 2d "	
Upper		
Sale	• •••• • • • • • • • • • • • • • • • • •	
Patent, classed as Sheep and Calf "	44 "	
Cutinto shapes		15 [
Bacon and Hams	Baperowt Saperowt Gaperowt Barrows 2a "Garrowt	
Pickled	64 "	
Fresh "		_
		10 10
Molasses		0 0
Maccarom and Veruncelli	per cent 1d per lb. 13 per lb. 95	2 0
	per cent 1d per lb. 14 per lb. 95	2 0
Muccarom and Veruncellilb	per cent 1d per lb. 14 per lb. 95 " 4d per gallon.5d per gallon " 14 " 1s 3d " " 4d " 5d "	
Maccarom and Vermicelli	per cent 1d per lb. 14 per lb. 95 " 4d per gallon.5d per gallon " 14 " 1s 3d " " 4d " 5d " " 2d " 24 " 1,295	12 6
Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95 "	
Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95 " 4d per gallon.5d per gallon " 14 " 1s 3d " " 4d " 5d " " 2d " 24 " 1,295	
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Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95 4d per gallon.5d per gallon 14	12 6
Maccarom and Veruncelli	per cent 1d per lb. 13 per lb. 95 4d per gallon.5d per gallon 14	12 6
Muccarom and Veruncelli	per cent 1d per lb. 13 per lb. 95 4d per gallon.5d per gallon 14 18 34 14 18 34 14 18 34 19 .	12 6
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Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95 4d per gallon.5d per gallon 14	12 6
Maccarom and Veruncelli	per cent 1d per lb. 13 per lb. 95	0 0
Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95	• 0
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Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95	0 0 0 12 2
Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95	0 0 0 12 2
Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95	0 0 0 12 2
Maccarom and Veruncelli	per cent.	0 0 0 12 2
Maccarom and Veruncelli	per cent.	12 6 • 0 0 0 12 9 14 4
Maccarom and Veruncelli	per cent.	12 6 • 0 0 0 12 9 14 4
Maccarom and Veruncelli	per cent.	12 6 • 0 0 0 12 9 14 4
Maccarom and Veruncelli	per cent 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 9 14 4 4 0;
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 9 14 4 4 0;
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0; ated. now
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0; ated. now
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0; ated. now
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0; ated. now
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0) sted. now 18 6
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0) sted. now 18 6
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 34 4 4 0; sted. now 15 6
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 15 6
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 15 6 7 1
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 15 6 7 1
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 34 4 4 0; sted. now 18 6 7 1
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 15 6 7 1 6 1 8 9 12 11
Muccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 15 6 7 1 6 1 8 9 12 11
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 15 6 7 1 6 1 8 9 12 11
Maccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 18 6 7 4 6 1 8 9 12 11
Maccarom and Veruncelli	per cent. 1d per lb. 14 per lb. 95	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 18 6 7 1 6 1 8 9 12 11
Muccarom and Veruncelli	per cent.	12 6 0 0 0 0 12 2 14 4 4 0; sted. now 18 6 7 1 6 1 8 9 12 11

SCHEDULE No. 2.

Calculations of the Customs Duties on Articles to be charged with an ad valorem duty under, the proposed Tariff, taking as data the importations of 1846. This Schedule includes only the Imports of Inland Ports.

This School	dule includes only the			
ARTICLES.	1 852	NT DUTY	Proposed Rate of	Estimated
	Imperid	Provincial	Duty	Proceeds
	(N)	10	15	£ad
Anchovies and Fish preserved		10 per cent 1 do	15 per cent 1 do	2 11 7 23 17 5
Bark		1 do	i do	8 19 8
Berries, Nuts and Vegetables	4 do	11 do	1 do	21 9 7
Bisenits and Crackers		6 դո	10 do	240 6 0
- Booke'''' '		5 do 10 do	7å do 19å da	995 5 2 828 3 7
Clocks		10 do	121 do 121 do	1,428 14 7
Coal		1 do	1 do	36 17 4
Cordage	7 do	5 do	74 do	215 1 9
Cork*		5 00	10 do)	97 11 10
Cotton Manufactures		ō do 1 do	75 do 1 do	2.271 1 4 19 5 0
Cotton Wool	**	5 do	5 do	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Dye Woods · · ·	• 4 per cent	1 do	1 do	19 5
Eggs	4 do	10 do	10 do	1 17
Extracts	• • 4 do	10 da	15 do	162 17 1
Farming Mills	4 do 15 do	10 do	157 40	61 10 6
Fins	• • Free	5 de 1 de	75 do 74 do	· 10 1 526 15 9
Fruit, preserved	- 4 per cent	10 do	15 do	16 9 1
Fruit, unenumerated	· Free	10 do	10 do	709 13 10
Furs and Skins	• • 4 per cent	1 do	5 do	69 4 2
Glass Manufactures	• • 15 do	5 do	73 do	691 6 3
Gams and Resins	- Free 7 per cent	5 do 5 do	b do 71 do	45 16 10 4,533 17 6
llay	- Free	6s per ton	i do	5 8 3
Hemp, Flax, and Tow .	· · Free	I per cent	1 do	36 8 4
Hides	- Free	1 do) do	267 18 6
Iron, Pig	4 per cent	ldo ldo	l do	34 15 G
Lard	- • 4 do - • 7 do	5 do	1 do 10 do	9 7 6 522 5 2
Linen Manufactures	· · 7 do	5 do	74 do	42 12 2
Machinery	4 do	10 do	125 do	2,292 10 0
Mahogany and Hardwood -	- Free	1 do	1 do	24 5 0
Medicines	4 percent	5 do Free	71 10	575 16 2
Oakum	7 du	10 per cent	1 do 10 do	2 19 4 203 17 1
Oil, Palm	- 4 per cent	1 do	I do	14 7 2
Oil, Fish	15 do	1 do	15 do	923 0 3
Paper Manufactures -	7 do	5 do	10 do	891 4 7
Pickles and Sauces	4 do	10 do 10 do	15 do	67 19 0
Poultry · · · · · · · · · · · · · · · · · · ·	- 4 do	5 do	10 do 5 do	23 12 8 552 1 3
Sansages	- 4 per cent	10 do	10 do	8 5
Saw Logs	- · Free	1 do	1 do	12 6 2
Seeds	 4 per cent 	10 do	10 du	
Silk manufactures	- 15 per cent	3∎ per ton 5 do	1 do 10 do	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Silk " Inble to additional dat	v. sav 15 do	5 do	125 do	520 0 0
Soap	- 7 do	5 do	10 do	134 7 10
Salt. Fine	• •		5 do	15 0 0
Soda Ash	- • 4 per cent	1 do	5 do	8 1 0
Spermacetti	15 do	5 do	74 do	0 12 3
Tallow.	· Free ·	• 1 do	20 do 1 do	120 0 2 204 18 1
Trees	- 4 per cent	Free	1 do	21 2 2
Vegetables.	· Free -	- 10 per cent	10 do	29 0 6
Wine, at Inland Ports			10 do	201 3 4
Woollen Manufactures,	- 7 percent - 4 do	5 do 5 do	74 do	2.274 18 1
· ·	- 4 60	J UV	74 do -	6.373 0 0
				30,887 7 0
Goods at Quebec and Montreal	paying 1 per cent £	81,731 10 1		817 6 4
Do do do Do do do	74 per cent 2,	,000,000 0 0 22,624 3 3	:	150,000 0 0
270 40 (10	10 per cent	44,U44 J J	_	2,262 8 4
Estimated Proceeds of ad valore				183.967 1 8
Add Estimate of Schedule No I				258,404 11 43
			•	

Literary Department.

Gross Estimated Custom' Revenue as based on the Trade of 1846

CHARITY. Bu Martin Farquhar Tupper.

Fair Charity, thou carrest, best, and tergitiest.
Who would not gladly hide thee in his heart
With all thine angel guests; for tiou delightest.
To bring such with these-guests that we're depart?
Cheroli' with what entecement thou invitest.
Perfect in winning beauty as shou art,
World-wearred in on to plant ther in his bosom,
And graft upon his caresthy bairry blossom.

Fam would be be frank-hearted, generous, cheerful, gain would be transcenced, zerous, therefore, Forgising, aiding, horing, trusting all;
But knowledge of this kind has made kind fearful—
All are not freedo, whom ferends in longs to call;
For prudence makes men cold, and interest teaful,
And interest hold them easies active to case 2,
And while they seek them easies active to case 2,
And louve the wounded stag alone to perioh!

MR FRAMPTON'S INTRODUCTION

in the world some twenty years or so, I was engaged as a sort of supernumerary clerk in the house of Wilson and Brown, at Calcutta; and having no one, else who could be so easily spared, they determined to despatch me on a business negotiation to one of the native princes, about eight hundred miles up the country. I travelled with a party, of the dragoous, commanded by a Captain Slingsby, a man about five years older than myself, and as good a fellow as ever lived. Well, some how or other, he took a great fancy to me, and nothing would do but that I should accompany him in all his sporting expeditions—for I should tell you that he was a thorough sportamen, and, I believe, enpertained some strange notion that he should be able to make one of me. One unfortunate morning, he came into my tout, and woke me out of a sound sleep which I had fallen into, after being kept awake half the

night by the most diabolical howls and screams that ever were heard out of Bedlam, expecting every minute to see some of their performers step in to sup, not with me, but upon me.

£442,371 13 0

- "Come, Frampton, wake up, man!" cried Slingsby, " here's glorious news.
- "What is is it ?" said I, "have they found another hamper of ale among the buggage ?
- " Ale-nonsense." was the reply, "A shik karee (native hunter) has just come into camp to say, that a young bullock was carried off yesterday, and is lying, half caten, in the jungle, about a mile from this place: so at last, my boy, I shall have the pleasure of introducing you to a real live tiger.'
- "Thank ye," said I, " you're—but if it's at all inconvenient to you this morning, you can put it off: another day will do quite as well for me—I'm not in the least hurry."

It was of no use, however; all I got for my pains was a poke in the ribs, and an injunction to lose no time in getting ready.

man of the neighbourhood, Rajah somebuly feel my pulse bound with the joyous ex- bright faces awaiting my return, of their or other made his appearance on his eleplant, attended by a train of tawnies, who
cursions that I met with an adventure,
then every energy of body and man was
were to undertake the agreeable duty of
which event at this period of my life, I exerted for an escape. I was perfectly beating. Not being considered fit to take which event at this period of my life, I care of myself-a melancholy fact, of which was only too conscious—it was decreed that Slingsby and I should occupy the same howdah. Accordingly, at the time appointed, we mounted our elephant, and, having a formidable array of guns handed up to us, we

As my companion, and, indeed, every one elec concerned in the matter, evidently con-

enjoy themselves too, I endeavoured to persuade myself that I did so too; and, consoled by the reflection that if the the tiger had positively eaten half a bullock yesterday after-moon, it never could be worth its while to scale our elephant, and run the risk of being shot, for the sake of devouring me, I felt rather bold than otherwise. After proceeding for some distance through the jungle, and roused, as it seemed to me, every beast that had come out of Noah's Ark, except a tiger, our elephant, who had hitherto conducted himself in a verry quiet and gentlementy manner suddenly raised his trunk, and trumpeted several times.—a sure sign, as the mahout informed us, that a tiger was somewhat close at hand.

- "Now then, Frampton," cried my com-panion, cocking his double-barrel, "look out !'
- "For squalls, " ruturned I, finishing the sentence for him. "Pray is there any particular part they like to be shot in? Whereabouts shall I aim ?'

Wherever you can," replied Slingsby, " be ready, there he is, by Jupiter! and, as he spoke, the long grass about a hundred yards in front of us was gently agitated, and I caught a glimpse of what appeared a yellow and black streak moving swiftly away in an oppo-site direction-" Tally ho!" shouted Shugsby, saluting the tiger with both barrels. An angry roar proved that the shots had taken effect, and in another moment, a large tiger hishing his sides with his tail and his eyes glaring with rage, came bounding towards us.

" Now what's to be done?' exclaimed I, -" if you had but left him alone, he was going away as quietly as possible."

Slingsby's only reply was a smile, and, seizing another gun, he fired again. On rement, and then, with a tremendous bound, sprang towards us, alighting at the foot of a small taee, not a yard from the elephant's head.

"That last shot crippled him," said my companion "or we should have had the pleasure of his nearer acquaintance—now for the coup de grace, fire away !" and as he spoke, he leaned forward to take a deliberate nim, when suddenly the front of the howdah gave way, and to my horror, Slingsby was precipitated over the elephant's head, into, as it seemed to me, the very jaws of the tiger. A fierce growl and a suppressed cry of agony, proved that the monster had seized his prey and I had completely given my friend up for lost when the elephant, although greatly al-armed, being urged on by the maliout, took a step forward, and, twisting his trunk round the top of the young tree, bent it down across the loins of the tiger, thus forcing the tor-tured animal to quit his hold, and affording Slingsby an opportunity of crawling beyond the reach of its teeth and claws. Forgetting my own fears in the imminence of my friend's danger. I only waited till I could get a shot at the tigor, without running the risk of hurt-ing Slingsby, and then fired both barrels at its head, and was lucky enough to wound it mortally. The other sportsmen coming up at the moment, the brute received his quietus, but poor Slingshy's arm was broken where the tiger had seized it with its teeth, and his shoulders and chest were severely lacerated by its claws, nor did he entirely recover from the shock for many months. And this was my first introduction to a royal tiger, Sir. I saw many of them afterwards, during the time I spent in India, but I can't say I ever had much liking for their society—umph!

A WOLF CHASE.

During the winter of 1844, being engaged in the northern part of Maine, I had much leisure to devote to the wild sports of a new country. To none of those was I more passionately addicted, than skating. The deep and sequestered lakes of this northern state, frazen by intense cold, present a wide field to the lovers of this pastime. Often would I bind on my y pains was a poke in the ribs, and an inusty skates, and glide away up the me that I was still the fugilive. I did
glittering river, and mazy streamlet that not look back, I was not afraid, or sorry
an of the neighbourhood. Rainh somehold flowed on towards the parent ocean, and or glad; one thought of home of the review with wonder and astonishment. I had left my friend's house one evening just before dusk, with the intention of skaring a short distance up the noble would be my only means of safety. Kennebec, which glided directly before Every half minutean alternate yelp from Kennebec, which glided directly before the door. The new moon peered from her lofty seat, and cast her beams on the frosty pine that skirted the shore untill Nearer and nearer they came; I heard

air, seemed to have sunk into repose. I had gone up the river about two miles when coming to a stream which emptied into the larger, I turned to explore its course. Fir and hemlock of a century's growth met over head, and formed an archway, radiant with frost-work. All was dark within, but I was young and fearless as I peered into the unbroken wood that reared itself to the borders of the stream. I laughed in very joyousness. My wild hurral rung through the silent wood, and I stood and listened to the echo that reverberated again and again, until all was hushed. Occasionally a night bird would flap his wings from some tall oak.

The mighty lord of the forest stood as if nought but time could bow them. I thought how oft the Indian hunter concealed himself behind these very trees, how oft the arrow had pierce the deer at this very stream, and how oft his wild hallo had rang for his victory. I watched the owls as they flitted by, until I almost funcied myself one of them and held my breath to listen to their distant

hooting.
Suddenly a sound arose. It seemed from the very ice beneath my feet. Loud and tremulaus at first, until it ended in one wild yell. I was appalled. Never before had such a noise reached my ears. I thought it more then mortal, so fierce, and amid such unbroken solitude that it seemed a fiend from hell had blown a blast from an infernal trumpet. Presently I heard the twigs on shore snap, as from the tread of some beast, and the blood rushed back to my forehead with a bound that made my skin burn, and I felt received that I had to contend with things earthly and not of spiritual mould. My energies returned, and I looked round me for some place of retreat. The moon shone through the opening by which I entered the forest, and considering this the best means of escape, I darted throuh it like an arrow. 'Twas hardly an hundred yards distant, and the swallow could scacely excel my desperate flight; yet as I turned my head towards the shore I could see two dark objects dashing through the underbrush, at a pace nearly double that of my own. By their great speed, and the short yells which they occasionally gave I knew at once that they were the much dreaded gray wolf.

I had never met with these animals but from the description given of them, I had but little pleasure in making their acquaintance.—Their untameable fierceness, and untiring strength, which seems a part of their nature, render them objects of dread to every benigthed traveller.

With their long gallop which can tire, The deer-hound shate, the hunters fire."

they pursue their pray, and nought but death can seperate them. The bushes that skirted the shore flew past with the velocity of lightning, as I dashed on my flight. The out let was nearly gained; one second more and I would be comparatively safe, when my pursuers appeared on the bank directly above me. which here rose to the height often feet. There was no time for thought, so I bent my head and dashed madly forward. wolves sprang, but miscalculating my speed, sprang behind, while their intended pray glided out into the river.

Nature turned me towards home. The light flakes snow spun from the iron of my skates, and I was some distance from my pursuers, when their fierce howl told at home on the ice. Many were the days that I spent on my good skates, never thinking that at one time they my fierce attendants made me but to certain that they were in close pursuit. else concerned in the matter, evidently con-they seemed the realisation of a fair scene their feet pattering on the ice nearer silered it completely as a party of the ut. All nature lay in a quiet which she some-still, until I fancied I could hear their most pleasure; and seemed to be prepared to time chooses to assume; water earth and breathing. Every nerve and issuede in

my frame was strained to the utmost ten- they do infinitely worse-break hopes which may

The trees along the shore seemed to my course. The wolves close behind, pheal. unable to stop and as unable to turn, slipped, fell, still going far ahead, their tongues were lolling out, their white tusks glaring from their bloody mouths, their dark shaggy breasts were fleeced with foam, and as they passed me their eyes glared, and they howled with fury. The thought flashed on my mind that by this means I could avoid them, viz: by turning aside when they came too near for they, by the formation of their feet, Q. How do you show that are unable to turn on ice except in a straight line.

I immediately acted upon this plan. The wolves having regained their feet sprang directly towards me. The race was renewed for twenty yards up the stream; they were already close on my track, when I glided around and dashed direct- Q. Whence is the organic part of the soil derivly past my pursuers. A fierce yell greeted my evolution, and the wolves slipping upon their haunches sailed onward, presenting a picture of helplessness and baffled rage. Thus I gained nearly a hundred yards at each turning. This was repeated two or three times, every moment the wolves getting more excited and baffled until coming opposite the house a couple of stughounds, roused by the noise, bayed furiously from their kennels. The wolves taking the hint, stopped in their mad career, and after a few moments' consideration, turned and fled. I watched them until then dusky forms disappeared over a neighbouring hill.-Then taking off my skates, wended my way to the house, with feelings better to be imagined than described.

PRESENT AND FUTURE.

The men who place their hopes exclusively in the future, confess, by the very act, that they are incapable of enjoying the present (and by enjoy-ment much more is meant than the more taking of pleasure), but not wishing to make this humi-ating admission, they flatter themselves that some thing else than what they possess is essential to peace and comfort. This is nothing less than an excuse for want of contentment; because, when excuse for want of communence, where as far the object of search is attained, they are as far much they really need as ever. He who from what they really need as ever. He who does not begin by placing contentment as the basis of exernal good, heaps up in vain, and might as well try to fill a sieve with water, as to construct a building of happiness upon a shadows foundation. Besides, a constant resilessness is the greatest possible hundrance to sound education of the mind. The fever-ligaze of the fortune-seeker cannot look aright upon the beautiful creation which is around him, if it ever looks upon it all. There are many men surrounded by the comforts of life, who, if you told them to divert their eyeawhile from future prospects, to cease envying their associates, to admire the wonders of nature and the beautiful world we live in, to be rejoiced at the remembrance of their daily blessings, and so be fully satisfied with their numerous advantages, would put you down for a madman or a fool. It is quite as easy to cultivate such a state of mind as to be constantly pining after what you are not got, or distressing yourself because you are not so well off as other people! and while every man of active mind must desire to go through his daily duties with energy and skill, and to fulfil his yocalum with diligence, yet when he has done all this, calm contentment is one great means to make him happy, and keep him so. The poet Horace when a young man, now these important truths, and in his first satire lashes the folly of mankind in a very just and lively manner That satire is not directed merely against avarice, as many critics have supposed, but against the deeper spirit of disquiet, which is at the root of

PREVENTION OF INFECTION FROM TYPHUS FROM THE STATE OF THE a time, a copious discharge of nitric acid gas will take place. The cup is to be placed during the preparation on a hot hearth or a plate of heated iron; and the mixture stirred with a tobacco pipe The quantity of gas may be regulated by lessening or increasing the quantity of ingredients. The above is for a moderate sized room, half the quantity would be enflicient for a small room. Avoid as much as possible Lreathing the gas when it first rises from the vessel". No injury to the lungs will happen when the air is impregnated with the gas, which is called nitrous acid gas; and it can-not be too widely known that it possesses the property of preventing the spread of fever.

Wonns .- "Words break no bones," says an old proverb; true, they do not; it would be well it a sandy soil; if much clay, a more or less stiff if their power were limited to such fractures; clay soil; if much lime a calcarsons soil.

have been the life and nonrishment of a voung heart—they throw a deadening chill over the high dance in the uncertain light, and my they sever the mystic woven threads of affection brain turned with my own breathless that were foundly deemed all enduring and unnorspeed, but still they seemed to hiss forth a sound horrible, when an involuntary "vet broken live on;" and thus they inflict bruses stumble on my part, turned me out of and wounds that the balan of Galead alone can

Scientific.

CATECHISM OF AGRICULTURAL CHEMISTRY AND GEOLOGY.

11 -Of the Soil on which Plants Grow.

- Q. What does the soil consist of?
- A. The soil consists of an organic or combintible, and of an morganic or incombinstible, part.
- A By heating a nortion of soil to redness on a bit of sheet iron, or on the end-of-a kinfe, either in the fire or over a lamp. The soil will first turn black, showing the presence of carbonaceous matter, and will afterwards assume a grey brown or reddish colour as this black organic matter burns
- A It is derived from the roots and stems of decayed plants, and from the dung and remains of animals and insects of various kinds.
- Q. Does this organic part form a large proportion of the soil !
- A Of peaty soils it forms sometimes threefourths of the whole weight; but of rich and fertile soils it does not usually form more than from s twentieth to a tenth of the whole weight.
- Q. Can soil bear good crops which does not contain a considerable portion of organic matter?
- A Not in our climite. A rich soil generally contains at least one-twentieth of its weight (5 per cent) of organic matter
- Q. Does the organic matter increase or diminish in the soil, according to the way in which it
- A Yes, it diminishes when the land is frequently ploughed and cropped, or badly manufed; and it is increases when the land is planted, when it is Ind down to permanent pasture, or when large doses of farm-yard manure or of peat compost are given to it.
- Q. What purpose does this organic matter serve in the soil?
- A. It supplies the organic food which plants fraw from the soil through their roots.
- Q. Do plants draw much of their organic food from the soil?
- A The quantity they draw from the soil variewith the kind of plant, with the kind of soil, and with the season; but it is always considerable, and is necessary to the healthy growth of the
- Q. If plants always draw this organic matter from the soil, will not the soil become gradually poorer and less productive?
- A. It will if badly managed and constantly cropped.
- Q. Then how can you keep up the supply?

down to pasture.

A. By ploughing in green crops,—by growing clovers and other plants which have long roots in the soil,-by restoring all the hay and straw to the land in the form of manure,-or by laying

[As the principles here laid down are so easily proved, and are now established beyond all question, how ruinously foolish is the practice of those farmers who sell hay, straw, and every thing they can carry off without taking any means to supply the soil with those essential elements of which it is thus deprived. Every load of manure, arising from the produce of a farm, which is not returned to it, is so much taken from its fertility, and to that extent diminishes its power of bearing crops. Hereafter let the farmer reflect upon this .- [Ed.

- Q. Whence is the inorganic part of the soil derived ?
- A. The inorganic part of the soil is derived from the crumbling down of the solid rocks.
- Q. Of what do these rocks principally consist? A. They consist of more or less hardened sandstones, limestones and clays.
- Q. Do soils consist principally of the same substances?
- A. Yes, soils principally consist of sand, clay and lime.
- Q. How would you name a soil which contained one of these substances in large quantities? A. If it contained very much sand, I would call

- Q. But if the soil contained two or more of them in large proportions how would you name 11 7
- A A mixture of sand and clay with a little lime, I would call a loam; if much lime was present, I would call it a calcareous loam; and if it were a clay with much lime. I would call it a calcareous clay.
- Q. What do you understand by light and heavy Jands.
- A. Light lands are such as contain a 1-72e proportion of sand or gravel, heavy lands, such as contain much clay.
- Q. Which of these two kinds of land is most easiby and cheaply cultivated t
- A The light lands, called often also barley or turnip sod«.
- Q. Why are these lands called barley or turnip sml+?
- A Because they have been found to be peculiarly fitted for the growth of barley and of turmp. and other green crops.
- Q. Do heavy or light lands usually stand most in need of draming ?
- A Tic heavy clay lands retain water most, and should therefore generally be drained first
- Q. Do light lands not require draining? A Yes, though dry at the surface, such soils are often wet beneath, and would pay well for
- Q To what depth would you drain your lands? A If I could get a full I would never have my drains shallower than 30 inches.
- Q. Why would you put them so deep?
- A. Because the deeper the dry soil is made, the deeper the roots can go in search of food.
- Q. Can you give me any other reason?
- A Yes when my drains are so deep I can go down 20 or 22 inches with my subsoil plough, without any risk of injuring them.
- Q. Does droning serve any other purpose beside that of carrying off the water from the land?
- A. Yes, it lets in the air to the subsoil, and allows the run water to sink down and wash out of it any thing which may be huriful to the roots of the plants.
- Q. Do such substances often collect in the sub-
- A. Yes, very often, and crops which look well at first, often droop or fail altogether when their roots get down to the hurtful matter

[This may be illustrated by referring to the layers of tron-othre, or pan, which in many districts are met with in the subsoil,-and to such curious facts as that observed in the East of Fife. beans usually fail.]

- Q. Why are many of the heaviest clays in the country laid down to permanent pasture?
- A Because the expense of ploughing and farmer for his trouble.
- Q. How could these heavy clay lands be rendered lighter and more cheap to work?
- A By draming, subsul ploughing, or by the addition of lime or mark when it is required.
- Q. Would the land after this treatment, also give greater crops of grain?
- A. Yes, not only would it be more cheaply worked, but it would yield a greater number of hushels of wheat per acre than before.
- Q. Would this increase be sufficient to pay the cost of draining?
- A. Yes, the cost of draining clay lands is generally hard back in three, or at the utmost, in five years, and the crops still continue greater than before.

For the Ladies

Park Benjamin thus gracefully addresses the Daguerreotype presentment of a pretty

Oh. I would labour many an hour, And journey many a mile, To catch the tender sweetness Of that delicious smile! There never was a lovelier From line of woman won. And truly could be copied by No artist save the Sun.

WEAR A SMILE .- Which will you dosmile, and make others happy, or be crabbed, and make every one around you miscrable? The amount of happiness you can produce is

incalculable, if you show a smiling face-a kind heart-and speak pleasant words .-Wear a smiling countenance-let joy beam in your eyes, and love grow on your forehend. There is no joy like that which springs from a kind act or a pleasant deed-and you may feel it at night, when you rest, at morning when you rise, and through all day, when about your business.

"A sinde: who will refuse a smile. The sorrowing breast to cheer And turn to love the beart of gude, And check the faling tear !

A pleasant saule for every face, O, 'tis a blessed dong! It will the lines of care er ise, And spots of beauty bring.

DOMESTIC FAULTS.

It has been the fishion, in iv we not say is to a nauseating excess to direct connoton the domes-tic virtues to women only. Dean Swift complains that young lades make nets instead of cages; and the whole phalanx of writers on such subjects have ever treated women as if she alone of the whole creation was not to live for her own happiness, but for the happiness of otherswas a sort of moral moon, to shine only by reflected light, and have only a reversionary interest in the grand estate of universal good. But the time is coming when it will be demanded of all to be workers, so will it be not uncommon We will not enquire on which side the amount of m-olency is hereight; let us rather essay the readiest mode of retreating the past, and giving security for the future. Homes are more often darkened by the continual recurrence of small faults, than by the actual presence of any decided yiee. These evils are apparently of very dissimifar magnitude; yet it is easier to grapple with the one than the other. The Eastern traveller can combine his forces, and hunt down the tiger that prowledpon his path, but he finds it scarcely possible to escape the musquitoes that infest the air be breathes, or the fleas that swarm in the sand he treads. The drunkard has been known to re-nounce his darling vice—the slave to dress and extravagance her besetting sin; but the waspish temper, the irritating tone, the rude dogmatic manner, and the hundred nameless negligences, that spod the beauty of association, have rarely lone other than proceed till the action of disgust and gradual alienation has turned all the currents of affection from their course, leaving nothing but a burren track, over which the mere skeleton of companionship stalks alone.

THE FEWALE DRESS OF THE PRESENT DAY.

We are inclined to think that the female attire of the present day is upon the whole in as favour-able a state as the most vehement advocates for what is called nature and simplicity could desire. It is a costume in which they can dress quickly, walk numbly, eat plentifully, stoop easily, bill gracefully, and, in short, perform all the duties of where the beans and oats, which look well up to he without let or hinderance. The fead is left to the notion of May, often blacken and fall in June or July, when the roots get down to the other subsoil. It is the local saying who is inspensed that the beans or outs hive gone to Auchtermichty—a fair being held there about that time when the beans usually fail.] -muslin, gauze, or barege; when a lady has no outline and no map, but looks ike a receding angel or a dissolving view; but they are certainly objectionable in a rich material where they flop, A Because the expense of ploughing and or in a suffrone, where they bridle, and where working these soils is so great, that the value of they break the flowing lines of the petitionat, and they grain reaped from them is not fit to pay the throw light and shade where you don't expect In short, we like the gown that can do without flources, as Josephine liked the face that could do without whiskers; but in either cases it must be i good one.

Scraps.

THE PRAISERS.—A poetical contributer to the Burlington. (Vt.) Free Press, thus apostrophizes the prairies:—

Great western waste of bottom land Flat as a puncake, rich as grease! Where gnats are full as big as toade, And skeeters are as big as geese! O, lonesome, windy, grassy place, Where buffaloes and snakes prevail! The first with dreadful looking face The last with dreadful sounding tail! I'd rather live on camel's rump, And he a yankee dondle heggar, Than where they never see a stump.
And shake to death with fever n'a

"Mien Got?" says a Dutchman in the merket house at Monterey, a short time ago who was searching in vam for some cabbages, "dosh Mexigans is no better than Hottentots—dey ish'nt got no kule, no kront, no notten. Dunder and blixen no wonder dey can't fight."

"Mr. Green," said a tolerably dressed female the other day, entered a grocery in which were several customers, "have you say fresh corned pork?" "Yes, ma'am." "How much is this sugar a pound?" "One shilling, ma'am. "Let she continued, lowering her voice. ' half a pint of gin, and charge it as sugar on the

Mrs. Butler, in her 'Year of Consolation,' describes how poor a rival of Nature, art in ite highest perfection is; and does it too with a single stroke of the pen. She is painting a moonsingle stroke of the pen. She is painting a moon-light night at Rome:— The full moon hung ever

the river in a sea of mellow light, indescribably and and powerful; the purple line of the Alban fulls was distinctly visible against the pearly horizon, while the roses in the garden near the bridge showed their colours as though by day, so potent was mountight, with its so wan and colourless. Opposite this great and lovely glory flamed in the distance like a huge flagger themble.

A Yankee paper says ! Our glass went clearly third degrees below nothing, and would have went much lower but it wisn't long enough.' Another paper says, 'We have no thermometer in the town, so it gots as cold as it pleases."

Which is the laziest class of persons? Toll people. Why! Because they are always longer in bed than others.

News Department.

EMIGRANTS .- We are sorry to state that the condition of emigrants in the city from sickness is deplorable : 350 patients are in the hospital, and one of the medical attendunts, Dr. Grasett, is dead.

THE EMBRANTS.-The Montreal Pilot gives the following awful intelligence as regards the combined of the enugrants in that place, upon the authority of a respectable eyewitness:

There are at the present moment 48 nuns sick from exposure, langue, and the attacks of dise ice. All the Grey Nines in attentince, 2 of the Sisters of Charity, 5 physicians, and 8 students, now he sick; to which gluony and sickening record we must add the number of 1586 persons, of all ages and seves, largering on beds of wretched mes and corruption, in many cases without an attendant to allord a drop of water, or to even attend to those decent formulates which the sad solemnties of death require.

The great danger to the health of the city had caused the currens to take steps to procure Boncherville Island for the erection of sheds hospitals, &c., to which the sick might be conveyed.

EMIGRANTS HOSPITAL, TORONTO.

Admitted during the week ending July 11th, 149; died, 24; dircharged, 23; remaining in Hospital, 345.—besides 43 admitted up to ten o'clock yesterday .- Patriot.

The Montreal Gazette says that the proprietors of the American steamboats on Lake Champlain have come to the resolution of not conveying any emigrants by that route, to the United States, however apparently healthy, for, they allege, disease continually breaks out among them.

Weekly return of sick in the Marine and Emigrant Hospital, Quebec, from June 27th, to July 3rd, 1847.

Discripts	Remain-	Since			Dird	l. R~		
tion	e.i	admitted	. tıl,	charged		maining		
Mea,	451	510	791	163	23	ent.		
Women,	170	ĸI	251	44	병	1 (34)		
Children,	23	21	49	14	11	24		
Total,	617	312	1091	250	11	844		
(Si	Jos. Parschaun, Jun.,							
				House :	Surį	geon.		

QUARANTINE HOSPITALS -The following statistics will show the condition of the marine hospuals on Staten Island at the present time.

Remaining in Hospitals,	•		•	697	
Admitted stuce	•	•	•	314	
Total under treatment				945	
Discharged	-	•	152	!	
Died	•	•	1		
				1:7	
Remaining in the Hos	pital	•	•	768	

Kingston Hospital.-Dr. Stewart complains bitterly of the medical management, under Drs Robinson and Meagher, of this matitotion, that males and females have been indiscriminately placed together in the same ward, and, in short that the Drs. paid by Government to attend the institution, are totally an enpetent to manage its affairs. Dr Stewart and for an enquiry into the abuses of which he complains.

The following is alleged by the French reformers to be the average postage at present prevailing among the principal nations, and is a statement which I believe to be pretty correct.

			Centimes.				
Figland-uniform postage	•	•	-	- 10			
Prosea-Szones	•	-	-	- 26			
Spain - uniform	•	•	-	- 27			
United States-3 zones	-	•	-	. 23			
Sardinia-7 zones .	-			- 34			
Austria-2 zones				- 34			
Russa-nadorm				- 40			
France-11 zones -	-			- 43			

A MAN ATTACKED BY A BEAR -The Bytown Pathet states that a man was attacked by a bear near the Mad twiska River, a few days ago. As the main attempted to escape up a tree, the hear nearly tore his legs off. The animal was at length frightened away by the cree of the man who so severely hurt that his life was despaired of.

Extraordistry Hair Storm.-The Betown Packet states that a thunder storm in the Township of Horton, was succeeded by a halfstorm, in which the hail stones were five or six inches in e-reunference. The storm could the crops along its course. The storm cut up or laid down

The corner stone of a Provincial Lunance Assylum was hid at St. John, New Branswick, about a fortnight ago.

A toll house, between Brantford and Hamilton, was broken open one night last week, and robbed

The late Hamilton excurson to the Falls, wid barely pay the expenses.

The Brantford Conrier says, the crops in that neighborhood are much better than had been represented.

The Brantford Courier complains of the large numbers of starved and diseased emigrants thrown upon the generosity of the inhabitants of that

A vote to exclude from the Jury box all Odd Fellows, was passed at a late town vote Westfield. Mass.

A new iron stemmer called the Magnet, was annched at Niagara a few days ago.

A not took place on the stermer Victoria, at Oswego, a few days ago, principally occasioned by a party of sa lors going on loard, throwing over the auchors, &c. The U.S. Sheriff took the ringleaders into custody.

The Lachine Canal will be closed on the se conteenth of August next, from which date the Navigation through the Canal will be suspended until further notice is given by the Board of

Travellers from Boston to St. John now frequently, by steamboat, perform the distance in 24 hours.

225 Emigrants died at the Sheds in Montreal in the week ending 3rd July.

It is stated that General Taylor has been super eded in the command of the army by Genera Scott

or Nations -Dr. Bowring has proposed in the British House of Commons that a Congress of Nations be assembled, to agree on a scale of coms, weights and measures for all coun-

Execution or Country -Coglilin the murderer of Oliver, was executed at Guelph, on Tuesday the 29th mst. He addressed the multitude assembled to witness his execution meanly hill-an-hour and prayed forgiveness of the wide of the minder-He desired his father to go away, and not witness his list moments. It appears that about 1500 persons were assembled. So strong was the fear of retaliation, that the carpenter who had commenced to put up the scaffold, abandoned his labours, lest be should full a victim for the part he took in the affair; and he was only indu-ced to complete the work by the priest declaring that if necessary he would do it himself. Coghlin made a written statement the evening before his execution. He declared that he was not a murderer, but that the Olivers' were disturbers of the public peace; that several quarrels which had to-ken place between them had been brought for adjudication before magistrates, but that from first to last he (Coghlin) had never had justice done to him. He stated that on the day of the number, Oliver had severely heaten his (Coghlin's) brother; that Coghlin asked Oliver why he had done so but received no answer. Robert Oliver struck him with a stone, and Richard struck him with a baywith a stone, and Richard strick him with a bayonet several ames. Coghlin says he had no intention of murdering any one, and told Oliver to
turn his bayonet away and fight with his hands,
and fight like a man. Coghlin took out his knife,
and made a stroke at Oliver, but he declares he
had no intention of killing, and did not even
know where he had strick. When he heard of Oliver's death, he would not believe it.

THE EMIGRANTS.—The Kingston Argus says that from 1st April to 1sth June, 182 patient have been admitted into Hospital. Of these 22 have died and 32 have been discharged. During that time 166 out-patients have been under me-dical treatment, of whom 38 have died,

Since the 16th June, 53 have been admitted into Hospital, of whom Shave died, and Ghave been discharged. During the latter period 40 out-patients have been visited, none of whom

ENIGRANT PASSENGERS .- From the 21st Anril, to the 27th at June, inclusive, 74,184 emirants pascengers arrived at New York, of whom 2 073 were admitted into the Marine Hospital. Of those admitted, four per cent, or 197 died: 1,227 recovered, and were discharged; remaining m the Marme hospital, 649.

Office of the Chief Agent for the Superintendence of Emigration to Canada.

Quebec, 26th June, 1847 Number of Emigrants arrived at the ports of Guelse and Montreal, during the week ending

Steer	age.
From England	2641
From Ireland	3250
From Scotland	9
FromGermany	
From Lower Ports	12
Total	5123
Previously reported	26215
Total	32338
To same period last year	21235
Increase	10806

A. C. BUCHANAN, Chief Emigrant Agent.

Comparative Statement of Arrivals and Tonnage at Montreal, in the years 1~16 and 1447,

up to 20th June, raclustee:

Vessels,

Tonnage. 1e46.659.241.849 1947.....499.....185,825

Less this Year, 170

The Montreal Herald says, seven German The Montreal Hernit says, seven terman ment, viz:—

The Montreal Hernit says, seven terman ment, viz:—

The Montreal Hernit Drapen, real, under the provisions of recent Braish Statutes and Orders in Council. These we believe Bench, in that part of the Province formerly are the first vessels bearing a foreign flag that known as upper Canada, in the place of the Honorable Christopher A. Hagerman decisions.

The Bytown Packet says Arrangements are being made to construct a Rail road between Carillon and Grenville, on the Ottawa.

The Houston Telegraph learns that the holders at Texas promisory notes and bonds are going to make strenuous exertions to get the next Congress to assume the whole debt of Texas.

The Quebec Gazette says, we are happy to hear that the five Roman Catholic Clergymen who lately returned sick from Grosse Isle are now considered out of danger.

At the fourth sale of funds of the St. Catherines Building Society, five shares were sold, at from £49 to £501 per cent bonus.

The Propeller Earl Cathcart, arrived at Windsor on Monday the 21st, and will proceed to the Bruce Mines in the course of next week

for a load of copper ore,

The inhabitants of Brantford have erected sheds for the reception of congrants. The Coumer states that many of them are in a wretched combition.

The President of the United States is making a tour of the country, he has visited New York and other places: he is generally received with great attention and some pomp.

The Legislature of Nova Scotta has been dissolved by proclamation. The write for a new election are made returnable on the 21st August. The elections will take place about the 6th of \ngnst.

Accounts lately received from the Laugrant Sta tion are more and more favourable. ches of emigrant is arriving-especially from Liverpool-from which port previously the most sickly and wretched arrived.-Transcript.

There is an immense deal of disease among the emigrants who have reached this city. There are, at this moment, we understand, nearly 350 sick in the hospital. Half'a dozen new sheds that were creeted lately are occupied with the more convalescent. We fear there is real ground for apprehending danger to the health of the city. Complaints are made that the decks of the steamboats bringing emigrants to this city are suffered to be crowded almost to suffication without the slightest reference to the health of the emigrants. If, as is alleged, 1000 human beings luve been crowded on the deck of one steam. er, it is high time this barbarous cruelty, arrsing from the capidity of the steambout proprietors, should be put a stop to. We have heard that there is an intention to call a pubile meeting, to devise measures to meet the present fearful emergency .- [Examiner.

During the last eight months more recruits have been enlisted for the army at Skibbereen, Cork, where distress has been extremely great, than during the previous twenty years.

The Government, at the instance of Mr. Shell, have increased the sour payable to the Catholic hishop of Newfoundland, from £75, to £300 a-year.

A dreadful storm of wind, lightning, and rain, occurred on the 21st ult, at the mouth of the Danobe. Nearly all the ships in the river were driven ashore, and several were capsized

The Norweg an silver mines at Kongsherg have lately become more productive, and their prohas been sold for more than £22,600.

A Germin newspaper states that the potato rot has appeared in Heidelberg, and that the potatues affected by the disease become decomposed sooner than was the case last year.

The gross receipts of the German Customs Union in 1816, amounted to 25,746,831 thaelrs and the net receipts, after the expenses had been deducted, were \$2,113,132 thaters (£3,310,96J.)

A correspondent of Herapath's Journal estimates the amount of railway calls for June, at £3.896.756, viz: English £1,998,678. Irish; £193.750, Scotch £154.328, and Foreign £1.550.090. The calls already advertised for July, amount to£3,000,000.—[Wilmer & Smith's European Times.

BURRELS WILL BE CHEAPER.-A machine has been invented, and is now in operation at New Haven, and also in Albany, for dressing barrel staves. It will make 7000 such staves, or hogshead staves in ten hours.

A return, moved for by Mr. T. M. Gibson, shows that the gross total quantity of grain and meal landed in Ireland during the ten weeks preceding the 22rd May last, mounted to 1,293,073 quarters, of which 900,176 quarters came from toreign countries, and British passessions, and 307,898 quarters from Great British

The quantity of corn imposted into France amounted, on the 31st April last, to 4,000,000 of hectolites, about one-half of that imported into England.

The consumption of cotton in France, in the first four months of 1846, was 43,432,000 the; in the corresponding period of this year, 26,000,000.

The free importations of all sorts of gram into France has been extended to the 31st January, 1848.

SECRETARY'S OFFICE. Montreul, 26th June, 1817.

His Excellency the Governor General has been pleased to make the following appoint-

ment, viz

Provincial Parliament.

LEGISLATIVE ASSEMBLY.

Monday, July 5.

Mr. PRICE inquired of Ministers whether it bo true that the present Judge at the late Western Assizes, did, upon committing a prisoner to gaul-fur a crime of which he had been convicted, for six months—committ him for a further period of two years and a half, for impertinence 1

Mr. Surawoop replied he had received no authemic information on the subject, and concequently, could not tell whether it were true or

Tuesday, 6th July.

EMMERATION

On motion of Attorney-General Sherwood a committee was formed to inquire into the best means of conducting emigration, &c. and moved as members to compose said committee, the Hon-the Receiver-General, the Hon. A. N. Morin, the Hon. Mr. Aylwin, the Hon Mr. Moffatt, Dr. Rousseau, Mr McConnell, and the mover.

Wednesday, July 7.

WANT OF CONFIDENCE IN THE COMMISSIONER OF CROWN LANDS.

Mt. Cameron (of Lanark) brought forward his motion of want of confidence in the Commissioner of Crown Lands, charging him with general meapacity, and also making the following specific charges: Members of that House, who were dearons of procuring information at the Crown Lands office were forbidden to enter the office; they were compelled to send up their names and to state their business; and the consequence was that information which could be obtained by the applicant for himself, by merely onking over the map, with the assistance of a single clerk, was only obtained after long and unnecessary delay. But the most serious charge he had to advance was the manner in which the mercantile community were injured by an order of the Commissioners, that they should be compelled to cut double the quantity of timber which they were formerly required to out. The effect of this order was easily to be traced in the bankrupteine published in the Gazette.

A debate ensued, and the motion was finally ost by a majority of two: yeas, 32; nays 30 SIMCOE ELECTION.

Mr. Baldwin brought up the matter of the Simone Election, and examined the Clerk of the Crown in Chancery.

He then maved a resolution embodying the principle, that the power to issue writs was vested in the House, except in certain cases.

The question was referred to the Committee on privileges and elections.

LIVERPOOL AVERAGE PRICE OF GRAIN.

	24.11	٠.	Dr.	٠ <u>٠</u> .	UM	17.5	r.v	۲. J	ВH	•	1.04		M 10	nr.
May 8	81 1		::	0	31	6	38	3	53	ú	34	11	0	-ō
May 15	95	9	41)	2	7.	111	4.2	71	54	ข	55	Ω	ın	
May 21	94 1	O.	55	111	21	3	69	41	57	8	60	11	0	0
May 29	102	5	56	5	6	3	73	111	591	P)	59	3	0	0
Jane 3	99 1	o	55	3	'5	111	72	ø	60	3	61	8	10	0
May 22 May 29 June 3 June 12	88 I	9	52	U	3	3	67	1	57	8	59	1	Ü	U
Aggregate Aver-	_	_		_			-	_	ľ	_	_	_	0	70
milk on Loteille	92	- 2			ı						·			
Produce pro- sent Week Do ether Bri. Col.		0	0	0	0	0	0	0	0	0	0	0	0	0
Do ether Brt. Col.	10	U	0	0	O	0	i o	0	ļο	Đ	ĺŌ	Q	(O	U

LATEST NEWS FROM ENGLAND.

Corn Market, Liverpool, July 4th.

Prices have become unprecedently low, and nniversal gloom is every where felt. At the closing of our market yesterday afternoon, the best Western Canal brands would not fetch more than 34s, 6d, per barrel—in some few instances it reached 35s,; but the transactions were generally of a retail character, and did not indicate the distinct at position of the content slightest eleculative disposition. Large quantities sold at 34s, per brand, but that is a price which could not be realised for any consulerable quantity to day. Richmond and Alexandria are quoted at 38s.; Philadelphia and Bahimore 32s.; New Orleans and Ohio 31s.; United States and Canadian, sour, 28s. and 20s.

Toronto Market Prices.

July 17.	R.	đ.		F.	d.
Flour, per barrel, 196 lhs	25	0	Æ	30	0
Oatmeal, per barrel, 196 lbs	25	3	u	27	6
Wheat, per bushel, 60 lbs	3	9	4	5	3
Rye, per bushel, 56 lbs	2	9	æ	3	-1
Barley, per bushel, 48 lbs	2	4	a	5	8
Oats, per bushel, 34 lbs	1	104	4	2	2
Pens, per bushel, 60 lbs	5	8	a	3	4
Potatoes, per bushel	3	6	a	4	Ü
Onions, per bushel	3	9	a	4	Õ
Tuh Butter, per ib	Ü	6	a	=	7
Fresh Butter, per lb	Ô	6	a	Õ	7.1
Eggs, per dozen	Ō.	5	ā	Ŏ	6
Beef, per cwt	17	6	æ	_ :	ŏ
Beef, per lb	Ö	2	4	Õ	31
Pork, per 100 lbs	20	ō		22	6
Hay, per ton	35	ŏ		40	Ů.
Straw, per ton	25	ĕ		30	
Timothy, per bushel, 60 lbs	5.	ŏ	2	6	
Mutton, per lb., by the ar.	Õ	2)	6	ō	31
Veal, per lb, by the ar.	·ñ	$\tilde{2}'$	a	Õ,	3i
Turkies, each	Ö	Õ	•	ő	Õ.
Geese, each	2	Ğ	<u> </u>	3	ğ
Ducks, per couple	2	ë	æ	3	9
Fowls, per couple	ĩ	õ	-	2	ŏ
Chickens, per couple	i	_	_	ĩ	Ğ
Bacon, per lb	ō		-	ė	5
flams, per cwt	35			50 °	ö
Lard, per lb					
	J	. 3 į	• "	V,	~

Advertising Department.

Wanted to Rent by the Board of Health.

A LARGE DWELLING HOUSE, or other Building, suited for a House of Refuge for the temperary residence of the Widows and Orphans of diseased Emigrants, and other Lamzronis who are too feeble to work for a livelihood, and too indigent to support themselves.

Apply to the Chairm in of the Board of Health

Toronto, July, 12, 1847.

(37° All the city papers to insert once.

Boot and Shoe Store,

4, CITT BUILDINGS, TOROSTO.

SIGN OF THE GOLDEN BOOT.

THE Subscriber embraces the present oppor-Customers, and the Public for the liberal patronage he has received from them since his comage 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 Chidren's BOOTS & SHOFS, INDIA RUBBERS, &c., of all sizes and quality which has a disparent &c., of all sizes and quality, which he is disposed to sell on the most moderate terms.

JAMES FOSTER.

January 18, 1847.

Notice.

THE BOOK, STATIONERY, PAPER-HANGING, and BINDING BUSINESS bitherto conducted by R BREWER will, from and after the 1st of April cusumg, 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 Premises, the

Drug & Medicine Business,

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

RICHARD BREWER, EDWARD MePHAIL, ROBERT MePHAIL, JOHN BENTLEY.

Toronte, 9th March, 1547

J. Ellis, Civil Engincer.

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

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

Peter street, Toronto. January, 1847.

Notice to Agriculturists.

TOHN BELL, No. 7. VICTORIA STERET, TOBONTO, CARRIAGE, SLEIGH, AND AGRIGULTURAL, IMPLEMENT MANUFACIURER, begs to acknowledge his sincere thanks to his
numerous Friend's and Customers, who, for a series
of years, have so liberally patronised him in the
above line. J. B. continues to monifecture, and
heepis constantly on hand. Double and Single Carriages, Lumber Waggins, Carts, Lumber and
Pleasure Sleighs, Custers, Harrows, Scotch Pioughs
(Wooden),—an article that dries competition, one
of which was awarded the first prize at the late
Provincial Agricultural Exhibition—Horac Rikes,
Turing Drills, and every article in the Agricultural
Implementation.

He calls particular attention to his "Premium two Horse Reaper," which obtained the prize at the late Meeting of the Azric 1 strick Society of this District.

Meeting of the Azric 1 strick Society of this District.

Toronto, Nov., 1846. and was pronounced by the Judges to be superior to and was pronounced by the Judges to be superior to any Machine of the kind ever imported into the Country. The mr h new are warranted to cut from 15 to 20 worss per day in a watisfactory manner, and will be sold at \$90 crash or \$100 at six months with

good security
J. B., in offering the above mentioned articles to the Public, bege to be understood to warrant every article manufactured by him, and lawing half a long practical experience in the lustiness, and em daying none but first rate Mechanics, feels confident that he can give general satisfaction.

All orders punctually executed when accompa-nied with cash or approved references in the City.

Mr. C. Kahn,

SURGEON DENTIST. King Street, 2 doors
West of Bay atreet Programmer



Home District Mutual Fire Company.

OFFICE-Nelson Street, opposite Adelade Street. Toronto.

INSURUS Dwellings, Houses, Warehouses, Buildings in general, Merchandize, House-hold Furmure, Mills, Manufactories, &c.

DIRECTORS: Witham Mathers, John Doel,

W. A. Babbwin, Dr. Workman. John McMurrich, James Lessie. J. B. Warren.

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-

Workman Brothers & Co.,

No 36, KING STREET.

OFFER FOR SALE: 60 tons English Iron, 20 tons Best Iron,

20 tons Swedes Iron.

15 tons Hoop and Band Iron, 10 tons Sheet Iron. 3 tons Plough Sheras.

2 tons Waggon Boves, 2 tons Cast Steel,

2 tons Cast Steel, 1 ton Spring Steel, 4 ton Lagle Steel, 2 tons Camp Ovens, 2 tons Helhed Pots, 5 the Lagle Steel,

5 Blacksmith a Bellows, 60 Blacksmith Vices, 15 " Hill & warranted Auvils,

120 Sugar Kettles.

120 Sugar Kettles.
40 Potash Coolers.
10 hoxes "Pontpool" Plates.
25 Box Stoves. 21 to 36 inches.
450 cisks Cut Nails.
50 cisks Wrought Nails.
20 cisks Wrought Nails.
35 cisks Horse Nails.
40 cisks Vrought Spikes.
40 cisks Coil Claim.

40 casks Coil Chain. 200 boxes Wandows Glass,

2 tons Putty. 20 dozen Common English Spales.

10 dozen Common Fuglish Shovels, 5 dozen Irish Spides.

2 dozen Scotch Spades, 60 dozen Steel Shovels.

no aozen Steel Shovels, 8 dozen Steel Shovels, 10 dozen Grain Scoops, 40 Philadelphia Mill Saws, 40 " Fairbanks" "Platf in 4 CounterScales.

-AL50-

JUST RECFIVED, ex ships Capricorn, Baron of Bramber and Backshire, 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

I MPORTER of HEAVY HARDWARE, Birming-ham, Sheffield and Wolverhampton Sugar Goods, Exertienware, and Glassware, in Crates and Hhds.

Also,—Importer and Dealer in Tess. Sugars. Tobaccos, Fruits, Spices. Oils. Paints, Dye Woods, Gunpowder, Shot, Window Glass, Cut-ton Batting, Wadding, and Candle Wick.

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

FOR Cheap Birmingham and Sheffield Goods,

try the

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 tronage.

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

Toronto, 1st January, 1847.

1-12m.

Swain & Co's Hygeian Medicine,

OR WORSDELL'S

Vegetable Restorative PILLS.

RECOMMENDED as the best FAMILA CURE OF GRAVEL.

Consider for Restoring Impaired Nature to Heavilt and Vision no and preventing Does we in the Human System, by Purdying the Blood.

Consider for Restoring Impaired Nature to Heavilt and Vision no and preventing Does we in the Human System, by Purdying the Blood.

CURE OF GRAVEL.

CURE OF GRAVEL.

Mr. SLATER of Someon, Grand River, suffered severely from Gravel, but, by taking a few boxes of the Restorative Polls, he is now emerly

Prepared solely by J. SWAIA & CO., 65, Youge Street, Toronto; who respectfully call the attention of their Agents, and the Public in general, to their various other Medicines, princularly their CARMINVTIVE for CHILDREN, and their STOMATIC BITTERS, LSSLNCLS, PERFUMERY, Ac. &c. &c.

Authorised Travelling Agents.

Mr. Jacob Hick, Mr. James Wetherald, Mr. W. H. Smith, and Mr. D. Swallow;

By whom (and at their P-tablishment, 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 porative Pills, which specifily reduced my body your invaluable Pills have been used in this young to its natural size, and my inmeness is much rein, they have been productive of the most hoppy results; the relief afforded to individual suffering in various ways has been almost incredible, therefore I cannot pretend to give a detailed account of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of their various virtues; but at the same matter of the relief afforded to individual suffering the various ways has been almost meredible. time I cannot forbear mentioning one particular case of a mon, who, for some four or five months, 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 legs; yet, surprising to cay, the I ills have entirely effected a cure, and the man is now able to work. Township of Goulbourne, in this District.

I remain, Gentlemen,
Yours with respect.
P. McLLROY.

To J. Swain & Co.,

Edwardsburgh, January, 1847. GENTLEMEN.—I have now great pleasure in handing you the annexed certificate, from my wife, which will speak for itself. Your General Agent. Mr. Wetherald, desired me to give um a certificate as soon as she was cured, but I refused to do so until she had remained well six months. That period has now claused, and I am happy to inform you that she has had no re-

turn of her complaint, but is in perfect health.
ABRAHAM WILSON.

CURE OF OLD-STANDING STOMACH COMPLAINT,

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

To J. Swam & Co.

GENTLEMEN,-For sixteen or seventeen years I was afflicted with a Stomach Complaint, at-tended 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 husband was appointed Agent for the Sale of your Pills, when I determined to try them myself, and, by persevering in taking them every day, till I had used five boxes, I was perfectly cured, and have remained entirely well ever since.

I remain, Gentlemen, yours respectfully. MARGARET WILSON.

REMARKABLE TESTIMONY. Testimony of C. J. Forsyth, Esq., Welling-

ton Square.

To J. Swain & Co. Wellington Square, January, 1847.

GRATIEMES. I have been in the practice of using your Pills myself, and recommending them to others, and I have found them to be unequal-ed 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.

1 am yours very respectfully. C. J. FORSYTH.

Tyandenago, parted with a Tape Worm from INTELLIGENCE, is published every other. 25 to 30 feet long, from the use of Swam & Co.'s Vegetable Restorative Pills.

J. WETHERALD.

TERMS:

CURE OF PAIN IN THE SIDE.

Mr. E. T. Martin, of Baybam, was afflicted months, he was perfectly cured.

CURE OF INFLUENZA.

Mr. B. Wiscur's Child was sick for three mon he, from luftnenza, and was reduced to a skeleton, and allhopes of his recovery were given up. He was advised to take the Vegetable Resorztive Pilla, which soon effected a cure, and he lie now enjoying good health.

CURE OF INFLAMMATION IN THE BOWLLS. Mr. W. H. SMITH, Toronto, was suddenly attacked with Auffanimation in the Bowels; in this alarming state he took a few doses of the Vegetable Restorative Pills, and was perfectly cured in four days.

cured of that distressing complaint

CURE OF LIVER COMPLAINT.

Mrs. Slater suffered for years from Laver Complant, and tried various remodes without effect; she, however, took a box of the Restorative Pills, and, to the great astom-kment and joy of herself and the whole family, she is now per-fectly cured, and never enjoyed better health.

WONDERFUL RISTORATION 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 enabled to perform a good day's work at craddling

WONDERFUL CHANGE.

SUSANNAII ZIMLS, of Weston, recrived an injury when four years old, which made her a crapple for years, attended with an alarming swelling in her leg and body. After receiving medical treatment for a long time, without effect, at last I was advised to take the Vegetable Research.

Mr. E. DICKSON, of Port Rowan, has been entirely cured of Chill Fever and Inflammation of the Lungs by the use of the Vegetable Restorative Pills, even after good medical skill had tailed.

Fairbank's Platform and Counter

Scales. THESE SCALES are constructed with great care by experienced workmen, under the supervision of the inventors. Fifort is made to secally, not only perfect ACCURACY, but also the greatest STRENGTH and DURABHATY. They have been long known and severely tested, and have been found ALWAYS RIGHT.

These Scales are adapted to every kind of business transacted by weight; and from the extensive use, and the high repute they have attained, both in England and the United States, as well as in other countries, may now be regarded as the universal standard.

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

WORKMAN BROTHERS & Co. Toronto, 22nd March, 1847.

NEW CHEAP

Clothing and Tailoring

ESTABLISHMENT, 130 YONGE STREET, TORONTO.

Samuel Morphy

BEGS to inform his numerous Friends and the Public that he has commenced business in the above line at No. 130 Yonge Street, Two Doors North of Queen Street, and adjoining Ms. Good's Foundry.

A VARIETY OF READY-MADE CLOTHING

mitable for country use, constantly on hand and will be sold Cheap for Cask.

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

Toronto, March 17, 1847.

THE

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Canada Farmer,

SUMI-MONTHLY JOURNAL OF AG MARK THIS.

MRS. OLIVLR, Wile of F. A. Ohver, Esq., MENT, LITERATURE, AND GENERAL TERMS:

Single Copies, 7s. 6d.; any person remitting Subscription for Five Copies, will receive one with a pain in his right side for two years, but from the use of the Restorative Pills for two one person sending \$12, will be entitled to twelve one person sending \$12, will be entitled to twelve Copies. All Payments to be made in Advance.

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