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CANADA



FARMER.

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

Vol. I.

TORONTO, SATURDAY, AUGUST 11, 1817.

No. 15.

SHORT HORN CATTLE.

(Continued from page 101.

It was conceded by a company of old breeders in 1812, in discussing the question of the improvement of Short Horns, that no stock of Mr. Colling's breeding ever equalled " Lady Maynaid," the dam of Phonix, and 21 indam of Favourite. One cannot deny that the Messes, Colling deserve great credit as breeders, and were no doubt improvers to a considerable extent; but if the above statements be true, they are far, very far indeed, from being the creators and originators of the chaser retained the cow, but re-sold the best tribes of the Short Horns. They calf to a blacksmith, who gave it to his strike us as having been sharp shrewd men, and were fortunite in securing the best animals of their day, and these, so long as they continued breeders, they kept exclusively to themselves. We saw a letter of Mr. C. Colling, when in England, written in a handsome round hand, declining to give the pedigree of an animal asked of him, and stating it was a general rule with him, from which, if our never departed, and his movements (as indeed are most of those of the breeders in England even at the present day, were hrouded in as much mystery as it was possible to assume. If they see an advantage in their stock, they at once determine to keep it as exclusively as they can, and make the most possible out of it. Perhaps as they cannot get any patent right for animals, this is all fair enough as the world goes, and for one we do not complain, since they left the results for the

Great antiquity is claimed for some of the stock in Northumberland, and as early as 1770, a Mr. Dickson, and probably some others, had cattle that were famous milkers, and much resembled in other particulars the Short Horns of the present day, being quick feeders and good handlers. We might enlarge upon this subject, but perhaps have alread said too much, and therefore forbear. Enough is on record to prove what we at first set out Hubback. so do, namely, that the Short Horns are of an ancient and superior race; and it is undeniable throughout Great Britain, that when the good milking and quick feeding qualities of any breed of cattle are sought to be improved, the Short Horns are universally resorted to, and when properly selected, always with marked success. We saw these crosses in minite number on the cattle of Ireland, Scotland, England and Jersey; and the colours and form of the Short Horns immediately stamped themselves upon the produce and predominated, which is proof indisputable. if other were wanting, of their great antiquity and high breeding.

The dam of Hubback was supposed to be a well bred Short Horn, with at least a portion, if not all of the imported Holland bloodt in her veins. Her size was

* This was also eminently the case with the

celebrated Blakewell.

1 We have heard it asserted, that this stock was originally sent from England to Holland about two centuries since, as a present by Charles I, to brought the time of his marriage with the daughter of repute. Charles, the Princess Henrietta Maria. From this produce a century after, Sir William St. Quintin and others made their importations. Mr. Bates had some of the same in his possession, which he

When a calf, he and his mother were sold now retue from further competition. in the Darlington market. The purdaughter after her marriage, and it was brought up in the lanes at Homby, within 5 miles of Kirkleavington. In 1783 it became the property of Mr. R. Colling, and his neighbour Mr. Waistell, but it was not till a year after this, that Hubback attracted Mr. C. Colling's particular attention. He had then just returned from spending a week with the celebrated Mr. Bakewell, at Dishley, who at that period, memory serves us right, he added, he had was in the zenith of his glory as a breeder, and doubtless gave Mr. Colling many a good lesson on Cattle, for upon getting back to Durham, he instantly saw how superior Hubback was to the much vaunted Long Horns of Leicestershire, and was at once aroused to his great merits, and immediately very adroitly ought him for £88, of his brother and Mr. Waistell, and would never after permit him to breed to any but his own herd. Hubback was a remarkable quick feeder, with clear waxy horns, mild, bright eves and a very pleasing countenance. His handling was superior to any bull of his day: his coat was of soft downy hair, and he had a habit of retaining it long in spring before sheding. He had the same propensity to take on flesh as the dam, and with Mr. Colling's good keep, soon became useless as a breeder.

Bolingbroke, (86), son of the celebrated bull Favourite (252), took on flesh rapidly, and in other respects was much like

Favourite, his son, was a large massy animal, partaking of the character of his dam Phonix, than that of his sire. He possessed remarkable good loins, and long evel hind quarters; his shoulder points plants as hydrogen and nitrogen. stood wide, and were somewhat coarse, and too forward in the neck; his horns also, in comparison with Hubback's, were he seemed to breed directly back in all and not quick in manure, and others are his general characteristics. He was a fixed, and act slower. powerful animal, and of great constitution. heifer from him, of direct in and in breed- the earth form the mould, which thus is ing, of sue to daughter, grand-daughter, composed of carbon, salts, and water, is and so on to her, of the sixth generation, natural manure. lis bull calves were generally barely medium for a Short Horn, with a self, a trifle coarse, but of good constitution.

Comet was the most celebrated of his get, and so'd for 1,000 guineas. It was as it is dissolved, it becomes valuable as the stock of these two last bulls that a manure. brought the Short Horns into so great

Phonix, the dam of Favourite, was a large open boned cow, with more horn, altogether coarser than her dam the beau-

HISTORY AND TRADITIONS OF carcase near the ground. And very fine To say that we admired Mr. Bates' actual bodies or plants. These are truly in all her points. She was a quick fieder, stock, is only renerating the opinion of the natural maintes, consisting of water, and would keep in good condition though many of the best judges in England. It mould and salts. This is all that is found running on the poor, short esture of the particularly excels in handling and leed- in cattle dung. This being premised, we common highway, and giving milk at the jug qualities, and he informed us that in may divide manures, reader, for your time. According to Mr. Berry's account, milking they were quite equal. He has more convenient consideration, not by when put upon good pasture near Dar. Intherto been more successful than any their origin, but by their composition. ling, she soon become too fat to breed, other breeder, in obtaining prizes at the We may divide manures into these three and was consequently sent to the butcher, Royal Agricul unal Shows, and whether classes: Fast, those consisting of vegeta-She was originally owned by Mr. Hunter be continues so hereafter, remains to be ble or an mal matter, called mould; Senear Hunworth, and there hied to Mr. seen. It is both troublesome and expen-Snowden's bull, of Sir James Pennyman's sive showing stock, and perhaps satisfied and. Thirdly, those consisting of a mixstock, and that produce was Hubback, with the honours already obtained, he may ture of these two classes. And, begin-

MANURES.

(Continued from page 162) SHOVELING OVER THE COMPOST HEAP

The above remarks may be called our 'ompost Herp. It must be well shovelled over. You must, reader, before you cart it out and spread it, understand well is composed of water, mould, and salts. what this compost contains. Now just let me turn over a few shovels full, and fork out the main points to which I wish

to call your attention. 1st. That all plants find in stable ma-

nure everything they want,
2nd. That stable manure consists of water, coal, and salts.

3rd. That these, water, coal and salts, consists in all plants of certain substances, in number lifteen, which are called,

1. Oxygen, 2, Hydrogen, 3, Nitrogen 4. Carbon, 5. Sulphur, 6. Phosphorus, 7. Potash, 8. Soda, 9. Lime, 10. Magnesia, 11. Alumina or clay, 12. Iron, 13. Manganese, 14. Chlorine, which last, as we have said, forms about one half the weight of common salt, 15. Silev. And if you always associate with the word chlorine, the fertilizing qualities of common salt, you will, perhaps, have as good an idea of this substance as a farmer need have, to understand the action of chlorine.

4th. These fifteen substances may be divided into four classes.

1st. The airy or gases, oxygen, hydrogen, nitrogen, and chlorine.

2nd. The combustibles, carbon, sulphur, and phosphorus.

3rd. The earths and metals, lime, clay, magnesia, iron, manganese, and silex. 4th. The alkalies, potash and soda.

You may be surprised that I have not turned up ammonia, but this exists in

5th. The term salt includes a vast variety of substances, formed of alkalies, earths, and metals, combined with acids, long and strong. These qualities were Fix well the meaning of this term in your derived from Mr. Hill's stock of Black-mind, and remember the distinction derived from Mr. Hill's stock of Black-mind, and remember the distinction well, to which, though several crosses off, pointed out, that some salts are volatile,

6th. When the plants die or decay, As a proof of this last quality, Mr. Colling they return to the earth or the air these used to show with great pride a fine large fifteen substances. These returned to

7th. Mould consists of two kinds, one of which may be, and the other cannot be dissolved by water. Alkalies put it into a state to be dissolved, and in proportion

Sth. If any manure contains only water, carbon, and salts, any substance which affords similar products may be substituted for it. Hence we come to a division of manures into natural and artificial.

ning with the last first, we will now proceed to the consideration.

CARTING OUT AND SPREADING.

The general chemical information as: forth in the preceding Sections will be of service to you, reader, if it conducts you not beyond the result arrived at in the close of the last Section, that cattle dung

You want to know what salts, and how they act. If you understand this, you may be able to say beforehand, whether other things, supposing their nature understood, can take the place of the mould

The mould, then, of cattle dung, as of all other mould, contains the following substances :

The water, consists of oxygen and hydrogen.

The mould consists of carbon, oxygen. hydrogen, uitrogen, and ammonia.

Thus it is seen, that the mould contains all the substances found in the first class into which elements of plants were divided. The salts contain the sulphur, phosphorus, and the carbon as sulphuric, phosphoric, and carbonic acids, and the chlorine, as miniatic acid or spirits of

The acids, formed of the elements of the fourth class of the substances, entering into plants, are combined with those of the second and third classes, namely: the potash, soda, lime, clay, magnesia, iron, and manganese. Here then we have all the elements of plants, found in cattle dung. Let us detail their several proportions. We have all that plants need, distributed in cattle dung, as foilows:-

In 160 the, of clear cattle durg, are In 100 lbs. of clear cattle durg, are
Water.

Water.

Mouth, composed of hay.

Bide and Shime.

Altomen, a substance like the white of an egg. 176
Salts, where or aread.

Pote lit, united to oil of vitrol, forming a salt.

Potash, united to acid of mould.

Common Salt.

Bine Dust, or phosphate of lime.

23
Plaster of Paris,

Pagnesia, iron, manganese, clay, united to the
averal acids above.

14

WHEAT—ITS PROPER MANURE.

How can one lest increase the elements of wheat in soils where such elements are lacking.

question of great practice? moment. To show, in the first place, what one acre of land can do, where Science had supplied it with each element used by nature in forming this invaluable plant, as far as such elements were lacking in the soil. We ask the reader's attention to the foll awing facts:

Says Mr. Colman :- "It is well attested that a crop of wheat grown in Norfolk lad some of the same in his possession, which he called the Wild Eyes bired of Short Horns. They were originally pure white, and it is this more white, and it is the consideration of these is the carting of the consideration of these is the carting of that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And points of their buttocks, that formerly for a time carried off the prizes at the Yorkins white with on British Caule; for these last have white brittle horn, a dull, sloggesh, ferocious eye, and other characteristics totally different from any white brittle horn.

In the consideration of these is the carting of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our compost. And that is to say, 90 bushels, 3 pecks per acre, out and spreading of our com county in the same year (1845) produced

crop. He did so, with the following re-

Organic matter	2 43
Confirme mances	~ • • • • • • • • • • • • • • • • • • •
Hydrate water	260
Carbonic Acid	0.92
Silica	81 26
Per oxide of Iron,	3 41
Lame	1.23
Alumina,	3,53
Sulphuricaeid.	0 09
Phosphoric acid	0.33
Magnesia,	1 15
Potash,	0 50
Soda.	1.50
Chlorine,	trace.
Loss on analysis,	0.63
•	

Total, 100.00

In so small an amount as 100 grains, each element, (14 in number,) found in perfect wheat plants. And yet, fourfifths of the soil is nothing but silica, or pure flint sand. The proportion of silica is about the same as we find in our best wheat soils in Wheatland. It differs on an acre with so little organic matter on an acre with so little organic matter sive generations, the injury can hardly in the surface soil as 2.43 per cent. is fail of being very disastrous to the constitution of matter of matters. producing large crops of wheat at the some extent in our own immediate neigh-least expense. It is not regetable, but bourhood, and has received attention and large yield of plump wheat. An abun-dance of mould will increase the growth tions in addition to those made by the of straw, but not of grain. To promote distinguished Irish chemist, the growth of the latter, no one thing is When the germ or said. so valuable, as a general rule, as that of bones boiled to a powder in strong lye. To this the addition of gypsum and common salt will be of great service. The phosphate of lime contained in bones is an indispensible ingredient in forming the seeds of the wheat plant. The gluten in called gastric juice, or remet, which aids grain contains sulphur, which the sulphate in dissolving their food. It has the realso needs potash, soda, magnesia, and its weight of insoluble starch in potatoes, Chlorine; all of which the common salt, for seeds of grain, into a soluble gum, to and ashes leached to obtain lye, will nourish and build the embryo germ into supply. The liquid exerctions as well as a perfect plant. After the first leaves are the dung of animals, abound in elements formed, nature having no farther use for excess of manure will be ruinous to the crop. And why this is so, let us now consider. now consider. Suppose, for an exp riment, one should make 2,000 lbs. of ripe of a new living being. Mr. Rogers has crop of wheat plants. Let this manure be spread over the ground eight or ten inches deep, so that the plants would have to organize their tissues, seed, &c , from the appropriate elements contained in the manure. Could a large yield of good seeds be thus grown! We think not. Why not? Every thing the kernels of Nature designs that this plant shall derive ! from the atmosphere, through the medium of its roots and leaves, a large portion of the carbon, nitrogen, oxygen, and hydrogen, used in organ zing its seed. Hence, to feed wheat plants with an excess of these elements in rotting manure, is to inflict a surfeit and discuse upon the same. All organized beings, whether vegetable or animal, may be injured more or less, oy naving an excess of nutrition thrown into their systems. Wheat can endure this surfect far less than corn, oats, or barley. There is a natural limit beyond which we cannot force any plant or animal, by the use of its most appropriate food. But in regard to wheat culture, we are far behind the maximum of conduct variations. behind the maximum of product consistent | ments; but the others are also needed with the highest profit. Something can be gained on most farms, by the droppings of domestic many that the dropping of domestic many that the of domestic animals, applied directly tol, too rich for a dose of barn-yard manure; an admixture of gypsum, salt, ashes, and plaster, nor the leached ashes, where you wish to enrich your soil.

From the Genesee Furmer.

Do varieties of Plants have a period OF NATURAL EXISTENCE, AND CEASE TO LIVE, LIKE INDIVIDUAL PLANTS AND Animals I

This has become a question of great practical importance, as well as one of much scientific interest. A majority of Physiologists regarding the existing Poato malady, which prevails so alarmingly in Ireland and Great Britain, as the effect mainly of constitutional weakness, in varicties of the plant, indicative of the anproaching extinction of such varieties, on the face of the earth. The loss of vital onergy has been increased, and hastened, it is believed, by the practice of an unthis soil shows an approciable quantity of patural and injurious course of cultivation. Mr. Rogers, of Dublin, whose researches are published in the Mark-Lane Express and received with respect and commendation, attributes the decay and wide-spread dissolution of potatoes, to the general custom of allowing them to germifrom them in containing more soda, potash, nate and form sprouts, of greater or less phosphoric acid; while the amount of length, which are broken off before planthme, magnesia, alumina, oxide of iron, ing. The production of these germs, or and cholrine, correspond very exactly rather their growth or waste, consumes a with the results of our own analysis portion of the vital force, as well as nu-We have, however, never so small an tritive elements of tuber, which are utterly amount of organic matter (vegetable lost to the succeeding generation. In mould) a 21 per cent. The fact that any single crop the loss is of course not over 90 bushels of wheat can be grown great; but carried through many succesworthy of mature consideration by those tutional vigour of the emasculated, or muthat desire to prepare their land for tilated race. As the disease prevails to mineral matter that soils lack to give a study at our hands last season, and the

When the germ or seed of a tuber begin to organize the elements that surround it, and fully develope a new living being, nature provides it with a peculiar nitrogenous substance called diastase.— This substance is not unlike the fluid called gastric juice, or rennet, which aids of lime (gypsum) will furnish. The plant | markable power of converting 2,000 times wheat, including both straw and grain, found by experience that potatoes are into a hear of manure for feeding a second exempt from rot, if planted late in autumn, and never disturbed in the spring, but cultivated as if planted at the latter season.

It has long been a source of deep regret to us that the study of vegetable physiology, and of the diseases incident to cultivated plants, is generally so little relished, and so unpopular, in the farming wheat need, as well as all that the stems community. Hence we write every sen and leaves require, would be present in fear of not being understood, of exciting the disapprobation of many of our readers. But we must still crave their indulgence, while we pursue the discussions of this subject a little farther.

The premature development of the germs of potatoes is only one, and that perhaps the least injury, which thoughtless cultivators inflict on this invaluable plant. They omit to place within reach of its roots those alkalies and alkaline earths, without which, no healthy and

Nothing is more certain than the fact wheat fallows. They are not generally that, to withhold from any being, whether especially if it be well rotted, and contain, is to impair its constitution, and expose it in an eminent degree to become diseased hine. Don't spare the clover seed, the sectsor other agents, that would fall harmless on well fed, strong, and healthy systems. A violation of the laws of organic and trust to luck and to the just unexception-

life will be fatal, sooner or later, according to the extent of such violation, not only to particular beings, but to the family in which the injured individual is a connecting link beween the past and the future. From this cause, many families in the highest class or genus of beings, that of man have become extinct, although once endowed with great vital force. For wise purpose, God destroys families that, from generation to generation, consume more than they produce, in idleness, extravagence, and vice. This is doubtless done to make room for the expansion of families, distinguished alike for their industry and temperance, and the physical, moral, and intellectual strength which labour and virtue always confer. If we view human action in its proper light, it will be found impossible, in the order of Providence, for man to inflict injury upon others, even on a potato plant, greatly needed as it is by the poor, without bringing on bimself or his offspring a greater injury. But it is unnecessary for us to moralize on this subject; although morality and agriculture are more intimately connected than many suppose. Without any especial violation of natural laws, we have no doubt that varieties of plants as well as animals will one day cease to have any living representatives on the earth. The researches made in that department of Geology called Palentology, which investigates fossil plants and animals, leave no room for doubt in regard to the extinction of many races, that have flourished for thousands of years on the globe. Hence, our able cotemporary, Mr. Beecher, editor of the Indian Farmer and Gardener, expresses a general truth too strongly when he says in a recent article,—" Any one tree may wear out; but a rariety never." A family of plants, or a variety of such family, may endure for indefinite ages. But in the ceaseless progress of time, an epoch will arrive when this family, like all the the extinct families, from the recent mastodon downward, will have no living representative to perpetuate its lineage.

We cannot dismiss this subject without emarking that constitutional weakness in the potato plant can be remedied as well by propagation from the genus in the tuber, as from the seeds in the ball. The vital principle is as feeble, as much exhausted in the one organ of the being that forms embryos, as in the other. It vitality be lacking in the germ found in the potato or tuber, it cannot be more abundant in the seed. If plants germinated from seeds appear more healthy and vigorous than those from the tuber which gave the seeds, it is owing to extraneous circumstances, better care keeping, less exposure, or some other incident. Unwise culture is only the the predisposing cause of the potato rot; while the active agent exists unseen, and unappreciable in the atmosphere, like "the pestil-lence that walketh in darkness." We We have good reason for the remark that, by supplying the crop with the precise in gredients required to form it, in its perfeet state, and at the same time avoiding the bad practice of sprouting before planting, the peculiar malaria, insect, cryptogamic, or parasitic plant, or whatever else may complete the work of destruction, will pass harmless over the potato field.

CANADA FARMER.

August 14, 1847.

MR. BUCKLAND.

We learned the other day, with surprise, that this gentleman has been in Toronto nearly a month. If he expects to do any thing in Canada-to be looked up to and respected as an intelligent labourer in the field of agricultural improvement—to be regarded as a thorough go-shead, independent man, who has come here to take up his abode and hereafter to consider himself a Canadian, he must not keep hid up in this style, nor surrender himself into the hands of any man or set of men, nor go about negociating for gifts. grants, assistance or favour, from Government, but must strike out boldly for himself

able claim which merit gives-that claim which the man who has done something at a personal sacrifice can prefer. The principle of making appropriations of the people's money to advance private enterprizes, especially before they are undertaken, however much the public may be interested in their success, will not be sanctioned. At all events a large party would oppose it, and the result would be distrist of the objects, and disregard for the benefits of such enterprizes.

We have understood it to be Mr. Buckland's intention to establish an agricultural school and Model farm in this vicinity. It is also said that he is a cambidate for the Chair of Agriculture (when it is established) in the University. He can hardly accomplish both objects. The former we believe would succeed, if established on an independant untramelled footing. It would probably be necessary that Mr. B. should spend a year in studying the character, wants and capabilities of the country. The latter will be a failure so far as the public are concerned. It may be bolstered up by public money; the Professor may pocket his salary very comfortably every year but as to any practical benefit to the Farmers of Canada it is "all in my eye." They will never send their sons whom they intend for farmers, to a University to learn their business. A hundred objections would be raised at once. Their being required to send them into the city would of itself be enough; besides, the antagonisms-the conflicting elements in the very nature of the thing would cause it to explode in a short time. A few pupils might be found among the sons of "gentlemen" farmers, as they are fond of being called, but we believe their ranks would soon grow thin. This is not the way to promote improvement in farming throughout the Province, nor have we much idea that it will be attempted. The University will very likely be settled on an improved basis at the next session; the improvement being the removal of the Theology Professorship, and a reconstruction of the Board of Management, with one or two other minor alterations. This seems to be in accordance with the opinions and wishes of the majority of both political parties, and we venture to say of the majority of those who are not particularly connected with either. The seperate establishment in each District of a Grammer School, with an Agricultural department and model Farm attached, will no doubt be provided for from other sources. and we shall then want a model Farm and a model Institution near Toronto, presided over by such a man as Mr. Buckland, to prepare teachers for these various District schools, and to instruct the sons of the enterprizing farmers of the Home District in the theory and more correct practice of their art. This will furnish a field sufficiently large and varied for one man.

THE POTATO INSECT.

The potato rot has been ascribed to a hundred different causes, each of which in the opimon of its propounder was sufficient to account for the evil. An insect has been the great destroyer in the opinion of many persons; but this insect has assumed as many shapes as Proteus, and its colour is as variable as the chamelion's. One time it is a long white worm or grub scarcely perceptible to the eye in the substance of the tuber; another time it is in the stalk in a different form; now it is a small black insect (in this neighborhood) which punctures the leaf. Every unfortueate i'y or grub that has been seen in the vicinity of a potatoe patch has been apprehended and without being allowed to give an account of himme or even to prove an alibi. has been thrust into die box, and condemned as the guilty "indiwidua."-the oudacions varmint that had killed the " praties" in every country of the earth; at St. Petersburgh and at the Cape of Good Hope; in the " Islands of the Sea" and throughout the continents of the old and new world! This omnipresent. felonious outlaw, underwent a critical examination by ourselves yesterday morning, and

though we were forced to acquit him " for the time above indicated. If there were no want of evidence," yet on the principle of the jury who brought in the man charged with murder, guilty, because they knew he had stolen a horse, we thought, that as he undoubtedly was making a great many holes in the leaves, and otherwise misbehaving himself. ull the sulphur, brimstone smoke, ashes, and soot, &c., that had been adjudged to be his portion, was quite good enough for him!

The insect that is now seen on the pointoe leaves in such numbers. has been compared to a flea, in its "habits and appearance." It is about as much like a flea as an apple is like a potatoe. And as for its " habits" they are totally dissundar. In appearance it is black, about the length, but thicker and rounder than a flea; it has six legs and two antennee: it appears to hop from leaf to leaf but it is furnished with a pour of wings and | wing cases. We examined it with the naked Hessian fly is known to exist, and thus raise eve only, and from as habit (a very bad one) of preying upon the green leaf, it must belong to the Mandibulata or musticating insects-(the flen belongs to the Haustellata or suctorial class, and has no wings,) and is of the order colcoptera, or beetle. The notion it. Under-drainining and open water course that this insect causes or has caused the pota-toe disease is simply, absurd. That they in-the loss from that cause is nothing when jure the plant more or less according to the compared with that which results from mulextent of their depredations upon the leaf, is tiplying Hessian flies in a wheat growing country a hundred fold. The frost usually no more than what experience and common sense will tell any one. We have already given our opinions about the disease, but as many persons, the readers of the Cul- ten or twenty miles. tivator especially, may imagine this little "gentleman in black" to be the man, we would advise every one to have an eye to the potatoe field. If they should see him at fore winter sets in should remember that they work, and no disease should follow, we think need only nourish till spring, a few minute a negative will be proved at last, and justice will demand that we enter a nolle prosequi.

THE HESSIAN FLY. (Cecidomyia destructor.) HOW TO PREVENT ITS RAVAGES.

The importance of an acquaintance with every fact connected with the history and Its crop is now nearly destroyed by insects. character of this insect must be apparent to every farmer of intelligence. We greatly Hessian flies the coming autumn, than is defear that from the apathy and disinclination to adopt measures of improvement, or indeed through a fallow that all the insects in the anything out of the usual course, which characterize so many of the cultivators of the soil, nits, which should be ploughed deep into the no general or efficient steps will be taken to prevent the otherwise certain increase of this most destructive of the insect enemies of man. We shall, notwithstanding, discharge our duty in the matter and leave no excuse on the leaves of the oats, barley, and spring the score of ignorance to those who may read the Canada Farmer. It is now certain that the Hessian Fly in the chrysalis state, is tumn. at this moment to be found in the wheat fields of all the older townships of Canada West, and in sufficient numbers to stock every township in the Province before the end of '48, and to cut off all the common varictics of wheat. That such a result will not happen, no one who is acquainted with the former ravages of the Hessian Fly can with any confidence expect. It can only be averted by a prompt and general action on the part of the wheat growers in every part where the Fly has appeared, or by some remarkable changes of weather, or peculiar condition of the atmosphere, during the coming winter and spring which shall have the effect of destroying the eggs. The latter we may hope for, but cannot calculate upon .- HOW TO LESSEN THE EFFECT OF THE FLT-The former is within our power; but for want of unanimity and immediate action, will not be successful.

In addition to what we have already published, we insert the following from a Rochester paper of standing, which strengthens the views we have urged upon our readers in former numbers. It must be remembered that our American neighbours speak of the Heasian Fly from experience.

"The second generation of this most destructive insect makes its appearance in

young wheat plants within reach of the perfect insect at the period of its maturity, on which to deposit its eggs, in September or the first week in October, all must perish without providing for the appearance of another generation in the spring. As all summer crops are out of the way in autumn and winter rye is but little cultivated, and may be sown late even better than wheat, the Hessian fly can be wholly exterminated, by delaying to seed till after the 20th September. Late seeding should be practised by all wheat growers simultaneously, for the 20 acre field of one farmer sown before the 10th Septem her, may sustain larve enough to come out perfect insects in April, or the first week in May, greatly to injure a thousand acres in the surrounding country. All insects, and especially the tipula, increase with wonderful rapidity. If a man should raise ten thousand wolves and let them out to destroy the sheep and cattle of the community, he would hardly do more mjury to the public than to sow 50 acres in wheat carly, in a town where the countless millions of these destroyers of

We are well aware that on many soils, late sown wheat suffers greatly by the heavings of frost, which separates the root of a small plant from the surrounding earth and destroys es will obviate this difficulty. Admitting the injures only portions of a field; and even when the damage extends over its whole surface, it never spreads like winged insects within

The subject is obviously one of great importance. Those that think of seeding early to avoid injury from frost, and to give their wheat a good start with numerous roots, beworms, to have their grain nearly destroyed in May and June, by the vast numbers of the

next generation.
Rolling with a heavy roller was tried by a large wheat grower in Wheatland last fall to kill the larvæ, by crushing them against the stem where they lie, but with little or no good result. This field was on the Genesee bottoms, and sown the first week in September, contrary to our advice. and will give to Monroe county far more sirable.

It is not a bad practice to sow a land early neighbourhood may come and deposit their earth where not one of them will ever come to maturity. After this the field can be seeded in the usual way. No application to the seed sown will have the least effect to keep off the fly. In the spring, it will deposit its ova on wheat, as well as on the winter varieties of the latter plant. Hence it is much more difficult to prevent propagation in spring than in au-

Burning the stubble after harvest, has been recommended and practiced to some extent. This can seldom be done without destroying the young clover which the farmer has on the ground. Noskilful wheat grower thinks of omitting to seed often with this renovator of the soil, aided, as it should be with i coat of gypsum, lime, ashes, and sult. Where the land is not seeded, or the clover has come badly, burning the stubble will be advantageous in more ways than one.

To escape the ravages of the Ceculomyia destructor, for it is indeed a destroyer without a parallel among the insect depredators upon the fruits of rural industry, we urge upon the wheat growers of Western New York, the propriety of delaying to seed till after the 20th September.

AND DROUGHT.

We clip the following from a report of proceedings at a late meeting of the Farmers' Club, New York. The mode of lessening the depredations of the Hessian Fly does not tally exactly with the doctrine of a sapient cotemporary, that manure produces this

" Mr. Meigs then read the following: Previous to the revolutionary war, Suffolk county, on Long Island, was so reduced in fertility as to yield, on an average, not more than five or six bushels of wheat to the acre.

began to manure their soil, and obtained rather a wide digression in addressing the

From the proceedings of the " Agricultural Society of England" Mr. Meigs rend that Mr. Bennays said that if the land on which the artificial manures were applied, were, in dry weather, strown with a top-dressing of chloride of calcium (muriate of lime made by adding spirits of salt to chalk), no drought can affect the crop, which is thus increased

To the Editors of the Canada Farmer.

Peterboro, July 26th, 1847.

GENTLEMEN: - When I addressed you lately on the culture of Linseed I followed very much the rule of the projectors of railway schemes, but with more certainty I trust in jumping at once to the profitable results. In doing so of course I left all the important details in the process, from the first preparation of the land for the seed, to others, who may be induced to step forward and favour us with practical information of its management in all its stages. Especially do I cherish the hope that Agricultural Societies at their meetings will take it up as a leading subject for discussion, I fear not but they will arrive at a satisfactory conclusion. And that these societies will find encouragement to appropriate a part of their funds to the establishment each society's bounds, to be afterwards ex-Pownship. Another profitable crop which would be found to answer well in Canada, is the common borse bean, which is so extensively cultivated in the mother country. It covers in fact a portion of every well managed farm; without it there would be difficiency in the proper rotation of crops, and a preparatory step lost in the profitable cultivation of wheat and barley; as either of these generally follow, and the land is then in fine condition for seeding down at the same time with grass. The bean is sown in drills suffi-ciently wide apart to adont of a one horse The bean is sown in drills suffiplough being once or twice used before the em, is in bloom, and a very little extra trouble and expense would thoroughly clean the ground of every weed, thus superceding a summer fallow, and adding much to the annual produce of the farm. The deep ploughing between, in part confers the benefit of subsoil ploughing, and will also be felt as a means of drainage to the land. In many districts of the old country the cultivation of the hear has been of late extended as a substitute for the potatoe, and an excellent substitute it more especially the broad white bean which with bacon forms a dish so justly famous; and moreover, both will pay well as articles of export.

Another consideration not generally known, is, that the field bean may be sown in this country in the fall just before the frost sets in. I have authority for stiting that the crop will in that case be more abundant. The Agricultural societies will surely bestow attention upon products suitable for exportation. They would thereby benefit the country far more than by showing up the same bull or ram year after year at an expense to the society, and discouragement to competitors for the first prize. But we must look forward to much good from these societies. It is in fact a duty incumbent on them seeing the Legislature attends to so little of vital importance in forming the ground work of the country's future prosperity. The first step they should take in my opinion, is, as a vacancy or general election affords opportunity, that each District Society send one member at least to Parliament, and if their President so much the better. A body of sound headed practical men would be formed joined to the commercial and other leading interests which would command the respect and cordial support of the country, and si-lence of those more eloquent and practiced tongues who waste the time of the house. glorying in their strength and drawing foolish comparisons between the Imperial and the Colonial Parliaments. They may be men of metal, and many of them worthy of high respect in their own sphere but they are out of it for the nation's good, as much so as would be sounding brass if applied to every purpose. Our House ought to have material capable of constructing a board of Agriculture, Commerce and Revenue, Health and General Improvement, with just opposition enough, to be when combined a Board of Controul. From such a house would emenate very different bills from those lately propounded. Some seem at varience even with common sense, and little or nothing is to be found indicating the collective wisdom of a country like this-the issue of a long debate hangs upon a thread; is just us uncertain us a law suit and the actors seem quite as much at

ditors of an Agricultural Journal, but it only requires a little consideration and the less, as it becomes more apparent every Session, how much this country may be check'd in its progress by the people taking their Representatives almost on mass from one class, and that one by no means the most likely to supply the best statesmen to guide the country's onward progress.

Apologizing for the length of this letter, I am, Gentlemen. Respectfully yours, A. SCOTCHMAN.

NEWLY DISCOVERED USE OF THE SUN-FLOWER.-Those most experienced in the cultivation of this plant are sanguine that, with proper soil and proper cultivation, it is more profitable than wheat or corn. The seeds are more oleagnious than those of the flax plant, and combine the qualities for table use of the best olive oil; for burning, of the best sperm, without its smoke; and for painting, it is said by painters who have used it, to be superior to linseed, and it is more rapid in drying, equally easy in spreading, and without forming a much denser coat. Prepared and eaten as artichokes, the young cups of a crushing machine in a central part of of this plant are very esculent and pleasing to the palate; the stalks are an extended as the culture increases, to each cellent substitute for hemp or flax, and for the bee pasturage it is equal to any plant, yielding from its luscious and numerous nectaties, an abundance of the best and most palatable honey. A writer in one of our agricultural exchanges, says that, on suitable soil, with proper cultivation, it will yield on an average from eighty to one hundred bushels of seed to the acre. From five to seven quarts of oil are calculated on, per bushel. If this is not over-estimating its productiveness, if it can be raised as cheaply as wheat or Indian corn, ordinarly considered the most expensive crops cultivated, the Sunflower must be a very profitable production. We, have, heretofore, cultivated it on a small scale, usually in vacant spots, by the fences and in places where the cultivation of other vegetables was inelligible. and so far as our experience goes, it corroborates the above assertions. We find that the green leaves are very excellent fodder for cows, especially when the feed in our pastures gets low in seasons of scarcity and drouth. We generally commence plucking them in July, taking the the lower leaves first, and feeding them out at night, or, if the scarcity of feed is great, in the morning before turning them from their yards. We have sometimes given them corn-toppings and the leaves of the sunflower at the same time, and have found that the latter are invariably preferred. The seed of the Sunflower is most desirable food for poultry, its highly oleaginous nature wholly superedes the necessity of animal food .- Ex.

NEW USE OF ETHER.—A friend at Concord ends us the following account of a new and successful experiment with "Ether:"—

Friend R .- I administered the "Ether" to a very vicious, ugly horse to-day, and she was made solimpressible by it that any operation hight have been performed upon her without any apparent

Mr. Bigelow, our blacksmill, told me sometime ago that one of the stage horses. which he was obliged to shoe, from some cause would keep was onliged to snoe, from some cause wome keep in such an incessant violent kicking, bitting and squealing, that it was not only troublesome but dangerous to shoe her. I told him to let me know when he shod her again, and I would give the ether to her. I did so to-day, and two minutes after I applied the ether to her nostrils, she may a magnet, and hypolegame as sheep, and was was as quiet and harmless as a sheep, and was slied with perfect ease and safety. The horse shod with perfect ease and safety. The horse was as bright as ever afterwards.—Lowell Cour.

To REMOVE DUST OR MOTES FROM THE EYE. —Fill cap or goblet with clear cold water, quite to the bran, and place the eye in distress in such a position as to be completely within the water in the cup; then rapidly open a shut the eye a few times, and the dust or mote will be immediately washed away. If a cup or other vessel be not at hand, the eye may be placed in a spring or bucket

To Fix Ammonical Gasks in Vaulte-The most effectual substances that can be employed for the jurpose of attracting anunonical gases, are green vitrol or common copperss (sulphate of tron) and sulphuric acid. A pound of either of these substances, diluted in a gallon of water and thrown into a vault, will immediately render it inodorous.

THATCH.—On the roofs of houses, thatch may this latitude during the two last weeks in The Hessian fly often destroyed even that, home. A toss up would answer quite as well, be rendered incumbustible by a common flame, to rendered incumbustible by a common flame, to rendered incumbustible by a common flame, taking care the coin bore the impress of the property queen's head to give the whole affair a smack and alum. One pound of alum will suffice for live earlier, and at others a little later than carricked, the fly did little damage. Many of loyalty. Such may appear at first sight five gallems of white wash.

Civil and Social Department

abandoned. The great number of emigrates they are spreading over this colony. have attracted the attention of Lord Grey and the Ministry, and convinced them " that it certainly true that we have received to the "extent of our capabilities" of the pauper class-of those who, in the language of the have died, and though they have not wanted instances of farmers having set fire to these buildings after the poor wretches had died or while there are no potatoes. left them, so great was their fear of the infection. People me unwilling to hire even urging a great increase of emigration from those who are able to work, (and they are very few) because in this country labourers usually lodge under the same roof and eat at the same table with those who here them, and such close contact with emaciated, cadaverous looking emigrants, just from the Hospital or fever shed, is by no means thought desirable. What then, we ask again, is to become of those whom sickness may leave to meet the rigours of a Canadian winter with nothing but crazy old stables and log shanties to shelter them ! We have indeed received of this class to the extent of our capabilities, and heaven knows what the consequences might have been had government added 50 or 100,000 more of a class still worse. The selfishness of Irish landlords and their unwillingness to look at the causes of their country's misery—to listen to any rem. one knew that emigration on a vast scale edy that will go to the foundation of the evil, I was now going forward—congration of an are well illustrated in some of the speeches in Parliament. A great cry is made about the "better" class of persons who are emigrating, and they wish government assistance to send out the "poor"! They are good enough for Canada! We are glad to find that for the present their barbarous and unprincipled designs are frustrated. Canada the State cannot interfere without doing alwould be runted-no person of respectability. would remain in it, who could get away. Not one in a hundred of this better class of emigrants, whose departure from then own their company—those who do no good in country is so much lamented, comes to us Ireland, and therefore will do well in Canada. now; and under a government colonization. The present emigration contains too large a scheme, they would all go to the United portion of farmers, and good working men States.

It is some guarantee that we shall not be swamped all at once by having the helpless, discused and fifthy masses of oppressed Ire- will not like a sieve, keeping at home every land entied upon us by Government, in order man of surew and substance, and bestowing to gratify their Link hand, but to find and our refuse on America. On the other hand, to gratify their Insh lordships, to find such the emigration now going forward, his Lordntiments as the following in the " Leading Journal of Europe," the London Times. This powerful organ reflects the views of the most influented classes in England, and must be regarded as high authority on such subiccts as the present. After showing the abuse which these gentry have made of the be to deteriorte the condition of the poor. He word "colonization," the Times remarks, on the speech of Lord Monteagle :-

But though the right word was used, it its right place in his Lordship's mind. On the contrary, the very first words of his speech showed that something else was uppermost:— Of the advantage to Ireland permost:— Of the advantage to Ireland of the adoption of of an extensive system of an adhabit, will of course make good interest that canada is not England, and that if they have purposed that something else was uppermost:— Of the advantage to Ireland of the adoption of of an extensive system of an aman. Mendicants by family, constitution, and habit, will of course make good such in every respect which they may have purposed that something else was uppermosed that something else was uppermosed that something else was uppermosed to Ireland the country and capable of performance to adopt the same system of farming in every description of farm labour, can be obtained for. These demands are resisted in every respect which they may have purposed that something else was uppermosed to adopt the same system of farming in every description of farm labour, can be obtained for. These demands are resisted in every respect which they may have purposed the adoption of of an extensive system of the country, demand algorithm that Canada is not England, and that if they are the country, demand algorithm that Canada is not England, and that if they be farmed to adopt the same system of farming in every description of farm labour, can be obtained for. These demands are resisted in every respect which they may have purposed the farmed to adopt the same system of farming that the country and canada is not England, and that if they be farmed to adopt the same system of farming the country, demand algorithm.

nel which is made exclusively for the advant-EMIGRATION AND COLONIZATION. Is a dram. The New River was not made for the labour out of twelve are just the men for the benefit of Herifordshire, nor the Reference in the benefit of Herifordshire, nor the Reference in the surplus" that Lord Monsuspense by the intelligence in late English Breatford. They are not Idrams. On the peace. Herodotus describes a market of papers that all the projects and Government contrary, the great Paddington sewer is wives in the East, in which the beautiful and schemes for the above purposes have been meant for the advantage of Paddington, and accomplished fetch a good price, out of which tot all the other docabtics in its course in [downes were provided to push into consumpabandoned. The great number of emigrates proportion as it flows away from them,—tion the inferior articles. Lord Montengle is who have sought our shores without the The Bolland Level is made for the good of not quite so fair. He does not propose that standard fever is find for the good of not quite so fair. He does not propose that standard extraordinary government assistance, the awful sufferings they have experienced, the thousands that have do d and will die, and the misery and postdence that they are spreading over this colony, have attack and the colonist. And when his of forcing the inferior commodity into the they are spreading over this colony, have attack and lord Grey, as a restriction. That, in fact, is the gist of the price of retaining the good. He wishes as the found it necessary to talk of the encumbered as we are—to be at the expense colony and the colonist. And when his of forcing the inferior commodity into the foundation of the encumbered as we are—to be at the expense colony and the colonist. And when his of forcing the inferior commodity into the foundation of the colonist market. That, in fact, is the gist of sponsible man and a statesman, had very his proposal. properly directed the attention of the House | Such being the case, common sense, com-Ministry, and convinced them "that it to the legatimate objects of colonization, would have been most unwise to endeavour Lord Fazwilliam, with all the instinct of an and we may add the uniform custom of this to relieve the sufferings of Treland by giving trish proprietor, interfered to correct what appeared to him this unseasonable aberration lature, acting for the colonics and for the genany extraordinary stimulus to emigration this of debate. "His noble friend, he said " had eral interest, can only help to send out the year, and that emigration had without such adverted very little to the condition of Ire-; best possible men. It must pick and choose, stimulus progressed to the extent of the ca- land, which was one of the most important not the worst, but the best. So it has always pabilities of the colonies to receive." It is clements of the question." The condition of done in this island. If the proprietor wishes certainly true that we have received to the lichard be proceeded to describe with an ind- to relieve his land, he can choose the most mirable simplicity. It was the mass of the burdensome and send them away with their people just now, where there were no pota-several portions out of his own private pocket. Times, "have been accustomed to conacte, Lindholds are not less anxious to get rid of may possibly give him some little assistance.

Lindholds are not less anxious to get rid of may possibly give him some little assistance.

Lindholds are not less anxious to get rid of may possibly give him some little assistance.

Lindholds are not less anxious to get rid of may possibly give him some little assistance. and two months' labour out of twelve," and what is to become of them during the coming winter we cannot tell. They have crawl- lords to send. So he concluded that the for. She has to answer for her penal settleed into all the vacant, hovels and pig-styes in State should, make haste, and avail, itself, of the country; in many cases whole families, the golden opportunity, before a good potatoe crop shall have resuscitated the Irish-man's attachment to his native soil, to get a for food, yet no one except perhaps a doctor. few hundred thousand across the Atlantic, or would venture within the door. We know safe at its bottom, as Providence may direct, instances of farmers having set fire to these "Make hay while the sun shines," that is

The great difficulty with which Lord Monteagle had to contend was, that he was a country which is notoriously not over poplulous, in comparison with its industrial resources, whose population does not increase many unusual ratio, or even so fast as in England, and which is, at this moment, and has been for many years, the most emigrat-ing country in the world. The regular emigration from Ireland, with its eight or nine millions, is very much larger then that from England with nearly twice as many. Already Ireland is sending to America rather more than the latter likes to receive, and quite as many as the capital either of the States or of our Colony can employ. Lord Monteagle recognised the fact of a large emigration. " He by no means contemplated superseding the present system of voluntary emigration, under which it appeared that between 1825 and 1846, no fewer than 1.400,000 had emigrated from the United Kingdom to our Colonies and the United States." Bye and bye, he observed, "Every extraordinary and increasing character.' He also referred to hundreds of letters in his possession, and quoted some, in proof of an increasing assistance from the successful emigrant towards bringing over his friends, and a regular correspondence across the Atlantic with this view. Why then should the State interfere, in the face of that universal law to which the recent history of Ireland has giv en so melancholy a prominence; viz.: that most as much harm as good ! The answer is exceedingly sample. The State is to send out those and those only whom the laudlord wants to get rid of-those whose room is better than too responsible and helpful; too sure to get on everywhere, even in Ireland. A State emigration conducted on true Parliamentary principles at the moderate cost of £10,000,000. ship feared,

"Was of a kind that, so far from relieving, would greatly increase the evils of which just complaints are universally made. The emigration from Ireland was now assisted by capital of the people themselves who have emigrated, and unfortunately the effect of it would found that the greater part of the emigration that had taken place had been from the class of employers rather than from the employed.

The State, then, is to make judicious selecdid not follow that the right thing assumed tion for the purpose. To a rising colony like

colonization there could be no doubt." A chan-settlers. The same raw material will do for workhouses and backwoods. They who have tage of the place whence the water is to flow been scenstomed to consere and two months

toes, who are anxious to emigrate, and the II he sets about doing so in carnest the State ments, and has no occasion to try new varieties of human degradation in pauperizing and perhaps "repealing" British America.

CAPITAL, LABOUR, AND IMMI-GRANTS.

That very few emigrants possessed of capital seek a home in Canada, is to many mutter of surprise. There are various causes which contribute to produce this state of things: the evil consequences of which are exhibited in the continual cry of " want of capital," to carry out this and that public and private enterprise. When we take into consideration the circumstances of thousands of tenant farmers in England, men of capital and intelligence; when we see their utter dependence on the owners of the soil; the great difficulty they experience in possessing themselves of farms when accident or caprice dispossesses them. When we know that the tendency of their position is downward, that their hope for the future is mingled with dispair; and the prospect for their family cheerless and uninviting: when all these things are taken into account, we do not wonder at the almost universal surprise that exists on this side of the water at the want of energy which prevents the effort that would for ever release them from this state of anxiety and dependence, and place them on the road to affluence. The mere want of energy will in partonly account for this singular fact. Will nothing but present poverty induce them to emigrate? Must their circumstances approach the point of desperation before they turn their attention to the new field for the exercise of their industry, which Canada and other colonies of England afford? It would indeed appear so. The spirit of colonization is extinct and the colonies are only regarded as a poor refuge for the destitute. How long is this state of things to continue? We have every confidence in the influence of truth, by the disemination of which alone can the evil be remedied. English farmers of ordinary intelligence, and considerable capital, have generally very lunited information upon every thing which relates to the colonies. This want of information, accompanied with an unpardonable de gree of self-will, often results in the ruin of that small class of English farmers of capital who do emigrate. It is this failure arising from a want of information that prevents a larger proportion of the same class from committing themselves to the fortunes of a colony where, if not failure, ill-success has attended the efforts of the few with whom they were acquainted, who made the experiment. Emigrants of this class must learn

risk a disappointment involving the shipwreck of their fortunes. The circumstances of the country must be taken into account. Individual industry is, in every new country, a most important element of success. Of this fact there is an abundance of evidence observable all around us. Persevering and welldirected industry, even when unassociated with the advantage of capital, seldom almost never fails of success. If the emigrant who has no capital to begin with but his labour, can, in every case, by industry and economy secure a competence, and even wealth, how much surer, how perfectly certain is the guarantee that he will succeed, who with his industry, combines the iidvantage of a moderate capital, if both are properly controlled and directed. If English farmers, of moderate capital, who can make no provision for their families, who are the helpless dependants of their landlords, and may be thrown upon the world at any moment which may suit the convenience, gratify the caprice, pride, or malignity of the latter: if they would consent to learn before they act; to study the nature of the climate and the capabilities of the soil, rather than attempt to set up a standard of their own without reference to these circumstances; if to these precautions they would add the exercise of stendy personal industry, they must better their condition in every possible sense by emigration to this Colony.

FLOUR AND MEAL.-The last number of Blackwood's Magazine contains an interesting paper from Professor Johnson, the celebrated Scotch Agricultural chemist, upon the comparative substance in coarse and fine flour: and the point he seeks to establish is that whole meal-or flour containing the whole ingredients of the wheat-is not only more healthy but more profitable than fine flour from which the bran, &c., is extracted. The git of his argument is, that there are three ingredients in the human body which need constant nourishment-viz: fut, bone and muscle. The vegetable food we consume contains these substances almost ready formed. Flour from wheat contains these in larger or smaller proportions, according to to quality-less in fine, more in unbolted; and the food must be most wholesome which contains these ingredients most abundantly. The Professor proceeds by a formidable array of analytical demonstrations, to prove how. much richer the whole meal is than the fine in the three above mentioned essential substances. The following table contains all the facts that are necessary, exhibiting at a viewthe quantities contained, respectively, in 1000 lbs. of whole meal and fine flour:-

Whole Meal. Fine Four. Muscular matter - - 156 lbs Bone Material - - - 170 " Fat - - - - - - 28 " 130 lbs.

"Taking the three ingredients, therefore, together," says the Professor. "the whole meal is one half more valuable fulfilling all the purposes of nutrition, than the fine the purposes of the state of th the Deity has so intimately associated, in the grain, the several substances which are neces-sary for the complete nutrition of animal bodies. The above considerations show how unwise we are in attempting to undo this natural collocation of materials. To please the eye and the palate, we sift out a less generally nutritive food,—and to make up for what we have removed, experience teaches us to have recourse to animal food of various ecriptious."

The condition of the emigrants and the situation of the farmers in this part of the country presents some very singular anoamalics. The emigrants, many of whom are broken down in health, without selftrained habits of industry and unacquainted with much of the labour to be performed in a new country, demand higher wages than men

harvest are greatly in want of assistance; and the presence of icides alone gave the idea and some of them complain that efficient asand some of them complain that efficient assistance is not to be obtained. The emigrants are very much deceived as to their grants are very much deceived as to their licehergs crowding the seean, and involving own capabilities and the value of their labour, incessant caution, for egg and snow storms Unprincipled parties, who pretend to be their often turned the day into night; a passage friends, do much to deceive them on this point. The country could absorb an immense amount of emigrants if they were all capable of labouring efficiently, and willing to take reasonable wages .- Evaminer.

Literary Department.

SIR JAMES ROSS'S VOYAGE IN THE SOUTHERN ASB ANTARG-TIC REGIONS.

In 1838 the British Association for the advancement of Science, passed some resolu-tions on the importance of having a simultaneous series of imagnetic observations; and suggested the localities in which they should pointed out by the resolutions fitted for stations were Canada, St. Helena, Van Dieman's Land, and Mauritius, or the Cape of Good Hope; the desirableness of having similar observations made "in the high Southern latitudes, between the meridians of New Holland and Cape Horn," was also suggested. The points to be regarded in the magnetic observations were the "three elements of horizontal direction, dip and intensity, or their theoretical equivalents, as also their hourly changes, and, on appointed days, their momentary fluctuations." A committee was momentary fluctuations." A committee was appointed to press the subject upon the Government; and the council of the Royal Society (the acknowledged advisers of Government in matters of science) having strenu-ously supported the views of the association. the undertaking was resolved upon. At the same time, it was considered that Antarctic exploration might be combined with magneti-cal observation. Two vessels were accord-ingly fitted up with all the precautions and provisions necessary for a voyage in those high Southern latitudes, and placed under command of Sir James Ross. His leading instructions were to land the observers and their instruments at St. Helena, the Cape and Van Dieman's Land; to establish himself for certain periods at certain places in the Southern Seas, to carry on the magnetic observations on shore; and in the intervals of time to endeavour to penetrate toward the South magnetic pole, or to pursue such other objects of discovery as should seem best in his direction.

Besides making the passage out and home, with occasional visits to New Zealand, Van Dieman's Land and New South Wales, Sir James Ross remained some time at the Falkland Islands and St. Martin's Cove in the immediate vicinity of Cape Horn, for the purpose of scientific observation, or to refit. His most interesting voyages, however, were three in number, and all directed toward high Soutern latitudes. In the first, skirting the more Enstern discoveries of Bellany made in 1839. Sir James Ross penetrated beyond the 78th degree of South latitude; discovered a seeming continent, (laid down on the latest maps as Victoria Land); and traced it from the 70th to the 78th degree of latitude. He was then stopped by a perpendicular barrier of ice from 150 to 300 feet in height, and of course above the most heads of the vessel, so that nothing could be distinctly seen beyond it except in one place; nor could it be reached. This barrier too was examined, as well as the difficulties of the season allowed; the position of the magnetic pole was determined, and approached within 160 miles. A spot was sought where the expe dition might winter, and attempt an overland expedition in the spring to "plant the national flag" on the South insignetic pole, as Sir James had previously done upon the North: but the approach of winter, the formation of ice on the sen, and the manner in which loose pieces quickly became a congented mass, compelled the expedition to return. This voyage was made in the No thern winter of 1840-41 Southern the nemisphere. As far as mere distance goes, the explorers penetrated about seven degrees beyond Cook's farthest, and about three degrees and a half beyond Weddell in 1823.

Such progress was not made but under favorable circumstances both of accident and season. In latitude 66 2. 55 they encountered a "mck," through which they had to force their way for upward of two hundred miles; but after that the sea was comparatively clear, and the navigation comparatively casy, till they approached the region " where, in a season of the year equivalent to August in England, the thermometer was at 120

because the navigation was still beset by the difficulties incidental to those high latitudes; sometimes had to be made through newly formed ice, by cutting away or rolling the ships bouts upon the mass; and at one of the worst points of the voyage, "the waves, as they broke over the ship, frozens they fell on the decks and rigging, and covered our clothes with a thick coating of ice, so that the people suffered severely during the continuance of the gale," although before the middle of the Southern August. Nothing, in fact, but the previous experience of the commander and some of his people, with the extraordinary preparation of his ships, enabled the naviga-tors to take advantage of the favorable circumstances in which they found themselves.

The second voyage, made with the object of following out the previous discoveries, was less successful; but the perseverance equally great, the hardships and dangers very much be made, as well as the points to which at greater. They made but thirty miles in one tention should be directed. The regions week, even before crossing the Antarctic circle, on account of a calm, a fog, and snow storms. They were entangled at an early period in a pack of ice, whence they never emerged for a thousand miles; but sometimes forced their way through it when the wind served and the ice permitted; sometimes drifted with it backward and forward as the pack itself was swayed by the Antarctic storms; sometimes stood to and fro in a space of open water or made a little way. each vessel fastened to the opposite sides of a floe of ice, to avoid accidents or parting com-Yet, though nothing was done as regards actual discovery, the martical maxim of pushing on to the very last illustrated in a remarkable manner the importance of not yield-

ing to difficulties.

"The setting-in of winter now required us to bring our operations in the higher Southern littlides to a close, and seek a more temperate climate in which to pass the winter. And although our hopes of extended discoveries during the senson had been frustrated by our protracted and tedious detention in the pack and the difficulties of penetrating a mass of more than a thousand miles in thickness had been overcome by the perseverance and exertions of my companions; still the time that was consumed in that laborious and fatiguing work left us only n few days of the worst part of the season to pursue our purpose. We had however, during that brief space attained a somewhat higher latitude than last year; we had truced the continuation of the barrier (of ice) ten degrees of longtitude farther to the Eastward. and extended our researches over a large portion of the hitherto unexplored parts of these regions; an amount of success which, while struggling in the pack, few of us could have anticipated."

The third voyage only penetrated to 71 30. on the same parallel as Weddell's (10 ° to 20 ° of West longtitude.) when a pack of ice and the advanced season prevented all efforts to proceed further. As close and extensive a survey as the weather in that region permits had previously been made of the Shetland group, latitude about 62 ° to 64 ° and West longitude 50 ° to 70 °, including Graham Land, and the Perre Le is Philippe, discovered by D'Urville.

In voyages of this kind the first object is scientific facts, and an accurate report of them; which, of course, somewhat interferes with popular attractiveness. The soundings of the ocean, its temperature at different depths, the observations of currents, the bearings of objects, the variation of the magnet, and the minute detail of other facts and phenomena, however interesting and suggestive to the geographer, (and they are highly so.) have only an occasional attraction for the publicat large; while their continual repetition, which is an absolute necessity, interferes with the narrative and flattens us well as suspends it. The formality and retinue of official responsibility increase lengthiness by the detail prescribed and the formal compliments apparently required. Notwithstanding these necessary drawbacks, the volumes before us are in the main attractive even to general, readers. There is the excitement attached to voyages of discovery, and the interest attending hardships borne and dangers and difficulties overcome. The Antarctic scenery is rather enumerated than described, for the style of the book is somewhat literal; but still it is there. The enormous icebergs standing on the ocean; the still ice-fields stretching away in every direction, or clashing and grinding under the influence of the storm; the mountains cased in eternal ice, and the wintry desolation of the frozen continent, are all indicated to the reader in the parrative of adventure.

There is, of course, continual risk; some-There is, of course, continual risk; some-ment of new "Gods" he goes to war in order to times terrific danger—as when a collision test their efficacy. Hithere Regis and Co. have took place between the ships close upon an been lucky in their "Gods." True San::

iceberg, and life hung upon the accidents of a moment; or the vessels, embayed in a pack during a gale, which forced the masses of ice against or over each other, drove helplessly about with damaged rudders; and nothing could be done but to hole on and wait the end. Some of the scientific facts are curious; and though the reports of the proper officers on the botany, geology. &c., may rather incumber the narrative, they give a variety, and often contains bits of generally interesting description.

A controversy both as regards claims to discovery, and, what is of much more importance, to fair dealing, is half raised in the work, in reference to the late disputes between the French and Americans as to their right to the credit of certain discoveries of patches of land between the 65th and 67th legrees of South latitude and the 13th and 14th of East longitude; and in which controversy, Wilkes, the commander of the American exploring expedition, wished to make out that the English were taking a part. In our notice of the second and third volumes of that work, we entered so fully into the question of national claims, that a tabular synopsis of the subject will be suffi-

1 0111	it fiele.		
1631	Navigators. Date. Name. Feb Bucoc.	Nation. English.	Land discovered. South Lat' Lon, 66 deg. 44 deg. East,
IAN	Feblincoe.	do.	67 deg. 72 deg. West
1839	Feb Bellany.	d x	67 deg. 161 deg. liast.
1839	Murch Hellany.	do.	65 deg. 121 deg. East.
1			Bellany's discoveries.
1	He sighed, or aunu	osed he sig	inted, land between the
i	two norms, along t	ha imo of	the French and Ameri-
l	can discoveries the	following	vear.)
1840			665 deg. 140 deg Bast
1840	Lan & Pate D'Heart	to do	St. Las Itt des Post

1940 Jan & Feb Pitruile. do. 55 deg. 130 deg East (This last was ley chifs, supposed to corer land, and named by D'Urville, "Coto Clarre.")

1840 Jan & Feb, Wilkes. American 62 deg 97 deg to to The latitude and longitude are given in round numbers, as no point whatever is tuvolved in exact position. It should be observed that the French and American discorprise were made in ignorance of Bellany's, and of each other's.

The priority of days between D'Urville and Wilkes is not easy to settle, because it is not easy to tell what actual land Wilkes really did discover; but in the verified places the Frenchmen seems to have been the first, and there is no doubt as to his superior accuracy of proceeding. When he has verified land he marks it as land; when he finds ice cliffs, but considers them as a covering of land, he so distinguishes them—"Cote Claire;" When he infers a thing, he lays it down as suppos-itory—" Isle supposed." Wilkes on the Wilkes on the other hand, with true go-ahead precipitation lays down every thing that loomed like land as land, and seems to have connected intermediate places that were not seen. At all events, while Ross was at Van Diemand's Land, Wilkes sent him, from New Zealand, a letter, of very general advice, and a chart of the alleged American discoveries, in which a continuous coast line is traced from the 97th to the 167th degrees of East longitude, with a latitude varying about five degrees (62 to 67.) The first use Ross made of the chart was to avoid the longitude of the French and use was to sail over the Easterly extremity of Wilkes land on his return.

We have seen by the extracts how easily the inexperienced or even the experienc ed navigator is deceived by the appearance of land in these high latitudes; and the history of men is full of men misled by apparent signs of land, under clearer skies. take is natural enough, and reflects no discredit upon Wilkes as a mariner; but laying down lands in the way he did is conclsive as to his character, as a scientific explorer and discoverer, whatever may be thought of him as a seaman. It is a graver charge than any errors in observation or shortcomings in science, that though he knew of one if not both of Bellany's discoveries, when he sent the chart to Ross, he omitted all mention of his name; but when Ross had sailed over his alleged land, he turned round and declared that it was an English discovery which had been falsified—though Bellany's Islands had been seventy miles off, besides having been verified by landing; and in his published narrative Wilkes suppresses all mention of Bellany's discoveries. In future the Americans must imsunderstands himself; he is not made for home, be more cautious what officers they send on for whatever else he may be adapted. scientific expeditions.—[London Spectator.

TRADE IN GODS!-Strange and even profane as this title may sound, it is a literal fact, La Democrate Pacifique states that there is a wharehouse in Paris with the title "Dupot for African Gods!" The firm of Regis carries on an extensive business with Senegal, where there are about as many kings as medieval Italy had princes. These African kings make war by way of a little pleasant excitement. When one of them has lost a battle be dismisses his and orders new French ones from Regis & Co., who employ artists to make them of deal, with serpents' heads, lions' masses, and tigers' claws. When a Senegal potentate obtains a consignment of new "Gods" he goes to war in order to

An English Pern.-The Duke of Northum-An excellent Ferra.—In Durks of Avendumberland—one of the richest peers in Great Britain—died last month quite suddenly in his bed, of influenza. A foreign correspondent of an American paper says of the event:—It is an awful thought to reflect that all the enormous wealth of this publicance the descendant of the required this nobleman—the descendent of the renowned Percys—with an income averaging him £2,000 to £3,000 daily, perfectly unincumbered—could not procure a single hand to close his eyes, or which he might have grasped and breathed farewell. His Grace died without issue, and is succeeded in his titles and possessions by his brother Lord Prudhoe. Though not a man of great abilities the late Duke held the high office of Chancellor of the University of Cambridge. He also had been Lord Lieutenant of Ireland, Ambassador to the Court of St Petersburg, and special envoy to France at the coronation of the ill fated Charles the X. During the embassy he refused to receive his nobleman-the descendent of the renowned to France at the coronation of the ill fated Charles the X. During the embassy he refused to receive money for outift, or any thing else; though a diamond hilted sword worth £10,800 sterling voted to him by the House of Commons, he subsequently accepted. During the whole time that he remained in France, he had independent of retainers, three hundred gentlemen of birth in his suite. As he progressed through France to Paris he scattered gold among the crowds that surrounded his train of cominger at overy postown. rounded his train of equipages at overy post-town. His wife was governess to Queen Victoria. The remains of the Duke was interred in Westmin-ster Abbey, in the tomb of the Percys, and with royal state.

NERVES OF THE HEART.-The New Orleans Commercial Times states that an interesting dis-covery has recently been made by Dr. Lee of that city. It says:—"The doctrine that the heart was wholly devoid of nerves (cor nervis carere) and was a suppidum et insensibile viscus, which obtained, we believe, at the close of the last contury, had already been modified by later authorities; but until Dr. Lee commenced his inquiries it was generally supposed that the nerves were very few in number: it was considered that the organ performed its important functions with little or no nervous action. Dr. Lee's inquiries are stated to establish not merely the existence of numerous hitherto unnoticed nerves in the heart, out also the curious facts, that these nerves increase with the increase of the organ; and that the nerves on the left side are more than double the size of those on the right. This latter circumstance is accounted for by the difference in the functions of the two sides, it being the office of the left ventri-cle to disperse the blood through he whole body by means of the arteries, while that of the right ventricle is merely to transmit it through the lungs to the left attricle—an operation obviously requir-ing a less vigorous pulsation, and consequently less nervous power, than that of the left ventricle. This discovery may be regarded as the comple-ment of Harvey's doctrine of the circulation of blood."

THE DISTRIBUTION OF CARBONIC ACID IN ROOMS FROM THE BURNING OF CHARCOAL.—It is commonly supposed that the carbonic acid resulting from burning charcoal in a brazier remains as a heavy stratum of vapor upon the floor of an apart-ment as it does upon the floor of the "Grotto del Cane." and that no danger is to be apprehended in entering the appartment if a person stand up-right; but this notion is seriously erroneous, as the chemist can prove. In fact, as carbonic acid is formed during the combustion of charcoal, it is materially lighter than air, because it is of an ex-American discoveries, to sail nearly twelve degrees further South, and to discover Victoria Land and the icy barrier. The next thermal levity, and bends uniformly with the air of the apartment, while another curious action is simultaneously ensuing, viz.: the charcoal, in order to burn and to continue burning, must have oxygen—it takes this from the air to form carbonic acid, but leaves the nitrogen, which is equally mephilical, so that, in the course of a very literation of the cares he approximate for these with short time, if no egress be permitted for these sub-stances so inimical to life, the entire volume of the air becomes thoroughly vitiated, and a person entering the apartment would be suffocated.

> Constant foresight is destructive of much happiness. They are happiest who can enjoy the present and leave the future to the future. However at times, this nursing of the future is most beneficial. It is especially so to the man of the world; because it leads him to include in his number as habiting future probabilities and early and habiting and early and habiting and early and habiting future for the contract of the contract mundane calculations future probability and con-tingency, while the plodding, unspeculative man will lose by his short-righted investments.

It is an error to suppose that domestic happiness does not require for its ingredient a large pro-portion of hitle cares and attentions. They are the soul of it. A man who says he is made for home, and is careless of little cares and attentions for his home, is under'a delusion; such a man

THE MIRAGE.—The following extraordinary optical allusion is described by a correspondent of the (Paris) Journal des Debats:-" On Friday last, between 7 and 8 olclock in the morning, the wenther being cold and clear, and while the sun was rising brilliantly, we belied a mirage. From the point of the steeple of the Cathedral of Ulm rose a narrow ray of a dark color, almost vertical, with a slight inclination to the West. Here this ray, the image of the Upper half of the steeple of the Cuthedral was designed, with its towers and all the numerous and delicate Gothic ornaments which decorate it on all sides. This image was so correct that it might have been mistaken for a representation made by the Daguerrectype. Eight times this phenomenon was repeated. Such an optical effect is, unexplained in this

[&]quot; Bellany I lands, in about latitude 67 and lougitude 164 East.

AMERICAN AGRICULTURIST-NEW YORK .-- We shall hereafter take occasional natice of new Agricaltural and other Standard Publications, in order that our readers may have an opportunity of judging whether their character and cost are such as to make them desirable to add to their library. The above is a monthly journal, of 32 pages, published by Harper & Brothers, New York, and edited by A. B. Allen, Esq. We have already borrowed freely from its pages, and though we have not particularly noticed the work. . . have no hesitation in saying, that for the ordinary farmer, it is second to none published in the United States There are others which aim at a higher and more ocientific character, but, for general usefulness, it can not be excelled, while Mr. Allen's well informed mind and practised judgment surperintend its columns. We should like it much better. however, if the editorial "we" occurred a little oftener. Since the Harpers have become publishers, the editor's pen is less used than formerly. Its correspondents are numerous and able, and reside in every State in the Union. Terms-\$1 in advance. Postage added, will make it nearly one Q. To make his land better, how much must be dollar and a half to the Canadian subscriber.

FARMER AND MECHANIC-NEW YORK.-H. II. Starr, Educar and Proprietor .- This is another of our exchanges that we value very highly. We are always sure to find something new and interesting in its columns. To the mechanic especially, we should suppose it would be indispensible. It contains a weekly report of patents obtained for puts in what he can buy for comparatively little inventions in the United States; a report of the proceedings of the Farmers' Club, American Inentute, and the Mechanics' Institute, together withnews and miscellaneous matter. The agricultural department is not as well attended to, and conscquently not as useful as others, but the American Farmer, who is almost always half a mechanic must regard it with favour. We recommend this journal, which is published weekly, contains 16 pages, and is about one third less in size than the Canada Farmer, to our Canadian mechanics and others of inventive genius. It is generally illus trated with cuts of new inventions, &c., &c., and all for \$" per annum.

WESTERS LATERARY MESSENGER-BUFFALO -We have received No. 1 of the 9th volume of this interesting publication. It is printed weekly, contains sixteen pages of matter, and is of a convenient size for binding. We understand it has obtained a considerable circulation in Canada. nothwithstanding the high charges (2d. each number) for postage. To those who are foud of light reading, and feel interested in American newsa summary of which is usually given-it is well worth its cost. Subscription, \$1.50c.

Scientific.

CATECHISM OF AGRICULTURAL CHEMISTRY AND GEOLOGY.

(Continued from our last.)

- V .- Of the Inorganic food of Plants.
- Q. What substances does grain especially draw from the soil?
- A. The seed of our grain crops especially exhausts the soil of phosphoric acid, and magnesia. III. Composition of the ask of wheat, outs, barley and tye.

	Wheat.	Oats.	Barley	Rye.
Potesh and soda,	ن ة .75	19.12	20170	37.21
1.me,	1 93	10.11	3 36	535
Magnesia	90)	9 93	10.05	10.13
Dride of Iron	1.36	5.05	1.93	0.52
Oxide of manganese	1 2	1.25	7	,
Phosphoric seid	49.32	46.26	1003	47,29
Selphune acid,	0.17		(626	
Nelica.		3 07	21.93	0.17
	160.	94.87	992	100.

- [The large quantity of phosphoric acid in the above table will show that, as the grain takes out more of this than of any other subcrops of grain must exhaust it of this more much. than of any other substance.]
- Q. How would you remedy such special exhaus-
- A By returning to the soil the particular substances my crops had taken out.
- Q. How would you recurn the phosphoric acid for instance?
- A. I would apply bone dust, or guano, or some other manure in which phosphoric acid abounds.
- Q. But with any kind of cropping may not a fertile soil be at length made unproductive?
- A. Yes, if the crops are carried off the land, and what they draw from the soil is not restored to it.
- Q. How is this explained?

- A. Every crop takes away from the soil a certain quantity of those substances which all plants require. If you are always taking out of a purse it will at last become empty.
- Q. Then you liken exhausted land to an empty purse?
- A. Yes, the farmer takes his money out of the pand, and if he is always taking out and putting nothing in, it must at last become empty or ex-
- 2. But if he puts comething into the coil now and then, he may continue to crop without exhausting it?
- A. Yes, if he put in the proper substances, in the roper quantities, and at the proper time, he may keep up the fertility of his land-perhaps for-
- Q. How much of everything must the farmer put into his land to keep it in its present condition I
- A. He must put in as much at least as he takes
- put in f
- A. He must put in more than he takes out.
- Q. But if he is to put into the land as much or more than he takes out, where is his profit to come from?
- A. His profit consists in this, that he takes off the land what he can sell for much money, and he money.
- Q. How do you mean!
- A. I mean that if I sell my oats and hay, I get a much higher price for them than I afterwards give when I buy them back again in the form of
- Q. Then the farmer can really afford to put as much upon his land as he takes off, and yet have a profit.
- A. He can. He puts in what is cheap, and lakes off what is dear.
- Q. What do you call the substances which the skilful farmer thus puts into his land?
- A. They are called manures,-and when putting them in, the farmer is said to manure his soil.

VI .- Of the Manuring of the Soil

- Q. What is manure?
- A. Anything that furnishes food to plants may be called a manure.
- Q. How many principal kinds of manure are there?
- A. There are three principal kinds,-vegetable manures, animal manures, and mineral manures.
- Q. What do you mean by vegetable manures? A. By vegetable manures, I mean those parts of plants which are usually buried in the soil for
- the purpose of making it more productive. Q. Name the most important of the vegetable manures1
- A. Grass, clover, straw hay, potato-tops, rape-
- dust. &c. Q. Is green grass used for manuring the soil?
- A. Yes, the soil is manured with green grass,

when grass land is ploughed up.

- Q. Would you bury the sods deep if you were ploughing up grass land?
- A. No, I would keep the sods so near the surface that the roots of the young grain could feed upon the decaying grass.
- Q. Are any other plants ploughed in green for the purpose of manuring the soil?
- A. Yes, clover, buck-wheat, rape, rye, and in some places even young turmps are ploughed in green to enrich the soil.
- Q. Into what kind of soil would you plough in a green crop?
- A. Into light and sandy soils, and into such as contain very little vegetable matter.
- Q. Is not sea weed or sea-ware a very valuable
- A. Wherever sea weed can be obtained in stance from the soil, numerous successive large quantity, it is found to enrich the soil very
 - Q. How is it employed?
 - A. It is either spread over the land and allowed to rot and sink in, or it is made into a compost, or it is put into the potato drills in a fresh state.
 - Q. When used in this last way does it give large crops of potatoes?
 - A. Yes, on the cast and west coasts of Scotland it is said to give large crops of potatoes, but of in ferior quality.
 - Q. How would you prefer to make a compost of sea weed?
 - A. I would mix the sea weed with earth and with shell-sand or marl, if they were to be had, and turn it over once or twice before using it.
 - Q. Are there any common green vegetables that are ploughed in with advantage?

- A. Yes potato-tops dug in, or turnip-tops, when the roots are pulled, make the next year's grain
- [Potato or turnip tops ploughed in make the succeeding barley or wheat crop so much better, that, about Eduburgh, the turnip tops
- Q. How can you get the largest quantity of green manure in the form of petate-tops !
- kept in a green state till the potatos are dug up, and thu∢ give much green manure.
- Q. In what form is hay usually employed as a manure?
- A Hay is usually given to the stock, and afterwards put upon the land in the shape of their
- Q. In what form is straw used as a manure ?
- A. Straw in some places is given to the cattle -m other places it is partly given to the cattle and partly trodden among the litter-while in places again, where few cattle are kept, it is sometimes rotted with water and a little cow dung and put on the land in a half-fermented state.
- Q. In what state of fermentation would you prefer putting your straw into the land?
- A That would depend upon the kind of land.
- Q Suppose you had to manure light land for a green crop 1
- Then I would like to have my straw pretty well termented and mixed with the droppings of a good many cattle.
- Q. But suppose you were manuring heavy clay land during the naked fallow before a crop of wheat?
- A I would then rather have my straw more loose and unfermented. It would help to keep my land open.
- This general rule may not apply to all even of our heavy clay lands. Even stiff clays vary in quality, and circumstances may render inexpedient in some localities what, as a sense ral practice, is the best that can be recom-

For the Ladies.

THE PARTING OF SUMMER.

Thou art bearing hence thy roses, Glad summer; fare thee well! Thou'rt singing thy last includies In every wood and deff:

But in the golden sunset Of thy latest largering day, Oh! tell me o'er this chequered earth How hast thou passed away?

Bright, sweet summer ' brightly Thine hours have floated by To the joyous birds of the woodland boughs.
The rangers of the sky:

And brightly in the forests,

To the wild deer bounding free;
And brightly undst the garden flowers, To the happy, murmuring bee.

But how to human bosome With all their hopes and fears; And thoughts that make them eagle wings To pierce the unborn years?

Sweet Summer! to the captive Thou hast flown in burning dreams Of the woods, with their hopes and leaves And the blue, rejoicing streams;

To the wasted and the weary, On the hed of sickness bound, In sweet delicions fantasies, That changed with every sound;

To the sailor on the billows, In longings wild and vain For the gushing founts and breezy hill, And the homes of earth again.

And unto me glad summer! How hast thou flown to me? My chainless footsteps naught have kept From haunts of song and glec.

Thou hast flown with wayward visions, In memories of the dead-In shadows from a troubled heart, O'er a sunny pathway shed;

In brief and audden strivings To fling a weight aside; 'Midst those thy melodies have ceased, And all thy roses died.

But oh ! thou gentle summer! If I greet thy flowers once more, Bring me again thy buoyancy, Wherewith my soul should soar!

Give me to hail thy sunshine With song and spirit free; Or in a purer land than this May our next meeting be!

IDLE DAUGHTERS.-It is a most painful spectacle in fundies where the mother is the drudge to see the daughters elegantly dressed, reclining at their case with their drawing, their music, their fancy work and their frading, beginling them-relyes of the lapse of hours, days and weeks, and never dreaming of their responsibilities; but, as a better, that, about Edinburgh, the turnip tops are reckoned equal to 8 tons of farm-yard manure, or £2 an acre. It is said, however, that the clover which succeeds the grain is worso when the tops have been ploughed in, —that it is sickly, and sometimes fails altogether.]

The transition of their responsibilities; but, as a necessary consequence, of a neglect of duty, growing weary of their useless lives. Bay hold of every newly-invented stimulant to rouse their droping energies, and blaning their fate when they dare not blame their God for having placed them where they are. These individuals will often tell you with an air of affected compassion (for who can believe it real?), that poor dear manina is working herself in death; yet measured do you is working herself to death; yet no somer do you propose that they should assist her, than they death A. By pulling off the blossoms, the tops are she would never be happy if she had only half so much to do

> Drop Carrs.-One quart of milk, large teaspoonful of saleratus dis plyed in a cup of creams to which sur in flour smoothly until a thick batter. Then dip your spoon in nolls, and, with it place your batter at short distances on a buttered, pair, Very descate made entirely of cream, either with or without eggs.

BUCKWHEAT CAKES are less tough and not as liable to sour, when mixed with salt-rising instead of hop yeast.

Sort Givornment, very mee-Four tea caps of flour, two cups of molasses, half-a-cup of but-ter, two cups of butterfulk, a cup of thick cream, three eggs, table spoonful of gauger, and the same of saleratus. Mrx them altogether with the exception of buttermilk, in which the aleratus must be dissolved and then added to the rest. It must not stand long before being sent to bake.

BUTTER is improved by working the second time after the lapse of twenty-four hours, when the salt is dissolved, and the watery particles can be entirely removed.

To MAKE TOWATO CATSUP.—Collect the fruit when fully ripe, before any frost appear, squeeze or bruize them well, and boil them slowly for half or bruize them well, and boil them slowly for half an hour, then strain them through a cloth, and an hour, then strain them through a cloth, and put in salt, pepper and spices to suit the taste, then boil again and take off the semi that rises, so as to leave the liquor in its pure state; keep it boiling slowly until about one third of the juice is duminished, then let it cool and put it into clear glass bottles, corked tight and kept in a cool place for use. After standing awhile, should any sediment appear in the bottles, the liquor should be poured off into other bottles, and again corked tight. tight.

CRANBERRY SAUCE .- This sauce is very simply made. A quart of cranberries are washed and stewed with sufficient water to cover them; when they burst mix with them a pound of brown sugar and stir them well. Before you remove them from the fire all the berries should have burst. When cold they will be jellied, and if thrown into a form, while warm, will turn out whole

Scraps.

RETORT COURTHOUS .- There was a lady of the RETORT COURTHOUS.—There was a lady of the west country, that gave great entertainment at her house to most of the gallant gentlemen thereabout, and amongst others Sir Walter Raleigh was one. This lady, though otherwise a stately dame, was a notable good housewife; and in the morning betimes she called to one of her maids that looked to the swinc, and asked, "is the piggy served?" Sir Walter Raleigh's chamber was just by the lady's, so as he heard her: a little before dinner, the lady came down in great state into the great chamber which was full of gentlemen, and as soon as Sir Walter Raleigh set eyes upon her, "Madam," said he, "is the piggy served?" The lady answered, "You know bea whether you have had your breakfast."—[Bacon's whether you have had your breakfust."-[Bacon's Apothegins.

PROMPT OBEDIESCE .- Foot was in the habit of inntating the peculiar manners of General Smith, whom he introduced into his comedy of 'The Nabob,' under the name of Sir Matthew Mite. One day the General sent for Foot: "Sir," said One day the General sent for Foot: "Str," said he, "I hear you have an excellent turn for municry, and I find that I, among others, have been the subject of your ridicule."—"Oh," said Foot, gally, "I take all my acquantances off attimes,—and what is more wonderful, I often take myself oil."—"Pray let us have a specimen," said the General. Foot put on his hat and gloves, took his caue, made a short how, and retreated from the house.—[Dramane Table-Talk.

SPASISH BEGGARS.—The queerest object in nature is a Spanish beggar; for these fellows beg on horseback; and it is an odd thing to see a man riding up to some poor foot passenger and asking alms. There is an old proverb about setting a beggar on horseback. A gentleman in Valparaiso being accested by one of these mounted beggars, replied. "Why, sir, you come to beg of me who have to go on foot, while you ride on horseback." "Very true Sir," said the beggs. "and I have the more need to beg. as I have to support my horse as well as myself."

As Amnous Pus.—"Who is that lovely girl?"

exclaimed the waggish Lord Norbury, riding is company with his friend.

"Miss Glass," replied the harrister.
"Glass!" reiterated the facetions judge; "by
the love which men bear to women I should be often intoxicated could I place such glass to my lips."

Convinced that patience moderates every grief, the friend of a young widow, who the day before had lost her husband, conceived he could not beter comfort her than by advising her to take po-tionce. The widow having already within her own mind made choice of a second caro spose, whose name was Paticace, vivaciously asked, "What' has he mentioned it to you?"

News Department.

BILLS ASSENTED TO BY THE GOVERNOR GENERAL -- We give below the remainder of the Bills which have received the Royal Assent, except a few of a private nature, and several Acts Incorporating Mining Companies. &4, &c. As soon as we have an opportunity we shall examine such as affect our agricultural friends and explain their nature.

An Act to define the hours of the Town of By town, to establish a Town Conned therein, and for other purposes.

An Act to extend the provisions of the Marriage Act of Upper Canada to Munsters of all de-

nonmations of Christians.

An Act to incorporate the Toronto, Hamilton Nugara and St Catharine's Llectne-Magnetic Telegraph Company. a Act to amend the Act incorporating "The

An Act to amend the Act incorporating "The Cobourg and Rice Lake Plank Road and Ferry

An Act to exempt the property of the Crown from

local rates and taxes in Lower Canada.

An Act to authorize the Commissioners for Dundas and Waterloo Macadamized Road to horrow money to enable them to complete the said

Road, and for other puposes.

An Act to amend the laws relative to the appoint ment of Special Officers, and for the better preservation of the Peace.

An Act for the better protection of Merchants and others who may be reafter receive assignments and enter into contracts and agreements in relation to goods and merchandize entrusted to

An Act for repealing and consolidating the present duties of Customs in this Province, and for other purnoses therein mentioned.

An Act to amend the Act, intituled, An Act to amend the Act constituing the Board of Works. An Act to consolidate and amend the Laws, and to repeal certain Acts relating to the crime of Forgery.

An Act to amend an error in the Act of the present Session, imposing Duties on Customs An Act to amend the Tenth Section of the Act to

incorporate the Town of Kingston as a City An Act for amending the Common School Act of Upper Canada.

An Act to incorporate certain persons under the name of the Burhngton Bay Dock and Ship Building Company.

An Act to incorporate certain persons as the

Guelph and Dundas Gas Company.

An Act to incorporate the Members of the Medi-

cal Profession in Lower Canada, and to regulate the study and practice of Physic and Surgery

An Act to revive and extend the Act incorporating the Humber Harbour and Road Company.

An Act to incorporate the Mechanics' Institute of

the City of Toronto.

An Act to regulate the duties between Master and

Servant, and for other purposes therem mentioned.

An Act to amend, explain and continue an Ac passed in the seventh year of the Reign of Her Majesty, intituled, "An Act to prevent obstruc-tions in Rivers and Rivulets in Upper Canada An Act to incorporate the British North American

Electric Telegraph Association.

An Act to extend the Provincial Copyright Act to percons resident in the United Kingdom on

certain conditions.

An Act to authorize the issuing of Debentures to pay the balance due to clamants for losses during the Rebellion and Invasion in Upper Canada.

An Act to appropriate the sums therein mentioned to defray certain expenses of the Civil Government for the year one thousand eight hundred and forty seven, and certain other expenses not otherwise provided for.

An Act to amend the Act for granting relief to the sufferers by the fires at Quebec.

An Act to amend the Law of Imprisonment for Debt in Upper Canada.

An Act to incorporate certain persons under the name of the Port Credit and Hurontario Plank Road Company.

An Act to incorporate the Lower Canada Agri-

cultural Society.

An Act to facilitate the proof of the Charter and Act of incorporation of the British American

Act of incorporation of Land Company.

An Act for the incorporation of the Agricultural Association of Upper Canada.

An Act to provide for an assessment of Real Property in the Town of Prescott according to the annual value or rental thereof, and for other

An Act to amend the Act incorporating the Eto

bicoke and Mono Sixth Lines Road Company

An Act to establish Lock-up Houses in the unin-corporated Towns and Villages of Canada An Act to repeal the Act of Incorporation of the

Town of London, and to establish a Town Conneil therein in hen of a Board of Police, and for other purposes therein mentioned.

An Act to incorporate the Town of Brantford An Act to incorporate the Scarborough and Mark ham Plank Road Company.

An Act to confer limited corporate powers on the Towns and Villages of Canada West not speci-ally incorporated. A Act to incorporate certain persons under the

name of The Streetsville Plank Road Company.

An Act to Amend the Law for the admission of Attorneys and calling of Barristers in Upper

An Act to incorporate the Echo Lake Mining

Company. An Act to incorporate the Cobourg and Port Hope Road Company.

The following Bills were assentd to by His Ex CYLLENCY THE GOVERNOR GENERAL, on the 9th

An Act for preventing Malicious Injuries to per sons and property by fire or by explosive or destructive substances.

An Act for shortening the time of Prescription in certain cases, and for other purposes there in mentioned.

An Act for compensating the families of persons killed by accident, and for other purposes therein mentioned.

An Act to incorporate the Montreal Firemens' Benevolent Association. An Act to divide the Western District of the Province of Canada, and for other purposes therein mentioned.

His Excellence was pleased to reserve the following Bills for the further signification of Her Hajesty's pleasure thereon, viz:

An Act to extend the time for taking the oath and making the declaration required of preson-

naturalized in this Province An Act to enable the Montreal Bank to increase their Capital Stock. An Act to enable the City Bank to increase its

Capital Stock. An Act to incorporate the Woodstock and Lake

LineRadway and Harbour Company. An Act to incresse the Capital Stock of the Quber

Bank, and to amend in part the Act to extend the Charter of the said Bank. An Act to facilitate commutation of the tenure of lands on roture inthe Queen's Domain into that

of free and common soccage, and to avoid the innecessary delays and expenses heretofore in endental to such communications.

An Act to incorporate the Bytown and Britannia

Rudway Company.

An Act to incorporate the Carillon and Greenville

Railway Company.

An Act to incorporate the Lake St. Louis and Province line Railway Company

An Act to incorporate the District Bank of Qubec.

An Act to incorporate the Montreal and Province An Act to incorporate the Montreal and Province
Line Junction Railway Company.
An Act to incrporate the Canada, New Brunswick

and Nova Scotia Railway Company, An Act for incorporating the Toronto and Gode-rith Railway Company.

THE NEW TARIFF.

TABLE OF EXAMPTIONS.

Anatonical Preparations when imported expressly for the use of any College or School of Anatomy or Surgery, incorporated by Royal Charter or Act of Parliament, and not imported for sale.

Coriks of the Holly Scriptures printed in the United Kingdom of Great Britain and Ireland and not imported for sale.

Books and Mars and Illustrative Drawings, imported for the use of any Library to which the Public may have free admission, as also for the Libraries of either Branch of the Legislature. Cors and Bullion.

DONATIONS Of BOOKS OF CLOTHING specially imported for the use of, or to be distributed gratuitously by any Charitable Society in this Pro-

Fish, fresh, not described.

Horses and Carriages of Travellers, and Horses, Caule and Carriages and other Vehicles, when employed in carrying merchandize, to-gether with the necessary Harness and Tackle, so long as the same are bona fide in use for that purpose, except the Horses. Cattle, Carriages and Vehicles and Harness, of persons hawking goods, wares and Merchandize through the Province for the purpose of retail, and the Horses, Carriages and Harness of any Circus or Equestrian Troop for exhibition. The Horses, ses. Carrages and Harness of any Circus or Equestrian Troop for exhibition. The Horses, Carriages, Caravans and Harness of any Menagerie to be free, and horses and cattle belonging to persons coming into the Province for the purpose of actually settling therein.

Hines, Orrat, and Tallow of Cattle and Swine, slaughtered in bond.

Maxunes of all kinds.

Models of Machinery, and of other inventions

and improvements in the Arts.

MI OSOPHICAL APPARATUS, Instruments, Books, Maps, Stationery, Busts, and Casts of Marble, Maps, Stationery, Disks, and Casts of Marvie, Pronted, Alabaster or Plaster of Paris, Paintings, Drawings, Engravings, Etchings, specimens of Sculptures, Cabinets of Coins, Medals, Gems, and all other collections of Antiquities, provided the same be specially imported in good faith for the use of any Society incorporated or establishment of the property of the control of the con ed for Philosophical or Laterary pursuits or for the encouragement of Fine Arts, or for the use or by the order of any University, College, Aca-demy, School or Semmary of Learning within

this Province.
PRINGSOPHICAL APPARATUS, &c., &c. imported for use by any public Lecturer for the purpose of gain, and to be re-exported, shall be allowed to be entered under Bond of two good and sufficient persons for their exportation within the specified time.

ens or Cromung which any Contractor or Con tractors, Commissary or Commissaries, shall import or bring into the Province for the use of Her Majesty's Army or Navy, or for the use of the Indian Nations in this Province: Provided the duty otherwise payable would be defrayed or borne by the Treasury of the United King-dom or of this Province.

BALT for the use of the Gaspe Fisheries. SPECIMENS of Natural History, Mineralogy or Bo-

tany. Senus of all kinds, Farming Utensils and Imple ments of Husbandry; Animals for the improve-ment of Stock, when specially imported in good

To ole of Trade of handy-craftsmen, in the occular passengers. The Captain of the R. W. had pation or employment of persons coming into the Province for the purpose of actually settling one of the most attractive beats on the river. pation or employment of persons coming into the Province for the purpose of actually settling

Also :-

CORDAGE, Salts. Salted or Cured Meats, Flour, Biscuits, Molasses, Pitch, Tar, Turpentine, Leather. Leather ware, Fishermen's Clothing and Hasiery, Fishing Craft, Utensils and Instruments imported into the District of Gaspe from the United Kingdom or the Channel Islands, or the United Kingdom or the Channel Islands, or the United Kingdom of the Channel Islands. neighbouring Fisheries, for the use of the Fisheries carried on therein:—subject to such regu-lations as the Principal Officer of Customs at the Port of Quebec shall make, and which he is hereby empowered to establish for the purpose of ascertaining that such articles are bona fide intended to be applied to the use of such Fishe ries. Also:-

That the native produce and Manufactures of all or any such of the other Bruish North American Colomes as shall adout the native Produce and Manufactures of Canada free of duty, shall be entitled to the exemption from duties under this act, with the exception of Spirituous Li-

The following articles are prohibited to be imported under a penalty of L together with the forf-ture of the Parcel or package of Goods in schich the same shall be found:—

Books and Drawings of an immortal or indecent character.

Corn, Base or Counterfeit.

RIOT.

A most disgraceful riot took place at Kingston about ten days ago. A Pricet, by the name of O'Higgins, was insulted by some one while attending to a sick person on the wharf. He fancied the party belonged to the steamer Princess Royal. A disturbance took place, and the Priest demanded satisfaction of the Captain, who offered his assistance to punish the person who used the insulting language, if he belonged to the boat. But he could not be identified. In the morning, a mob gathered and took possesion of the steamer, floated her out into the river, beat the captain and several of the crew, injured the boat, and were at last dispersed by the military. What was most strange, the authorities made no arrests.

TORONTO EMIGRANT HOSPITAL .- Return from the Emigrant Hospital, for the week ending,

August 5th:—
Admitted, 150; Discharged, 137—of whom 102 were sent to the Convalescent Hospital; Died, 30; Remaining, 872.

The thirteenth anniversary of the abolition of lavery in the British dominious was celebrated in Hamilton last week.

Lord Ashburton has taken £500 worth of stock m the Woodstook and St. Andrews railroad. New Branswick.

The Quebec Mercury says the crops of all kinds in that neighbourhood are most promising peas are luxuriant and potato fields never looked better.

The Clarmont Mills at Burford, belonging to Mr. Alexander Macdonald of Toromo have been consumed by fire. The value of the property was about £1,500. There is said to be no doubt that the fire was the act of an incendiary.

The insects are making great ravages among the hops in Worcestershire

At present, in Great Britain, there is one in 1585 of the population deaf and dumb, and one in 1000 blind.

A short time since, Indian corn sold at Cork for £19 10s. a ton: the best can now be had from £10 to £11 the ton.

THE CROPS IN THE NEIGHBOURHOOD OF MOR-REAL .- The Montreal Gazette says :- The wea ther has now again become very warm, and in that respect most suitable to the maturation of the crops. Potatoes still continue to look healthy, both in field and garden, and the early sorts are abundant in our markets, and of better quality than they have been for some years back. Barley is very fast ripening, and the wheat shows signs of abundant and healthy product.

The latest accounts from the Quarantine Station at Grosse Isle, give an unfavourable accoun of the mortality and sickness in the vessels recent ly arrived there. In one as many as 78 deaths occurred during the passage, and in all many deaths and a great number sick.

THE MILLERITES AGAIN .- We understand from the Brooklyn Advertiser, that a number o fanatics have re-commenced the work of societas delusion, and with more method than madness are busying themselves in that city and elsewhere, distributing tracts to prove that the end of the world will take place on the 19th of October next. Some of these circulars and documents are said to be very plausibly written, and calculated to mislead the weak-minded as to the truth of the prophecy which they have so boldly advanced .- [Buffelo Express.

STEAMBOAT EXPLOSION.-The Ningara, Capt. Ellaworth left New York for Albany city Saturday morning last, with 200 passengers. When day morning last, with 200 passengers. When nearly at Sing Sing, going some 20 miles an hour, racing with the Roger Williams, her steamments of Ethermory: Authors for the improve-ment of Stock, when specially imported in good faith by any Society incorporated or established for the encouragement of Agriculture.

Wearing Apparel in actual use, and other Per-sonal Effects not Merchandise, Implements and dangerously. The Roger Williams brought up

SHOCKING MUNDER IN LOBOROVEH .- One of the most fearful murders ever perpetrated in any country, has taken place in this vicinity. A man country, not uners passes in the vicinity. A man and his wife, young emigrants, were brought into town, from Loborough, on Thursday night, in custody, for having murdered their two children, a boy of four and a girl of two years of age. The real facts of the case we do not know correctly; but it would appear that these children prevented but it would appear that these children prevented their parents' obtaining work so readily as could be wished, so they determined getrid of them. The boy was found in the woods, covered with stones; and the little girl was left wholly exposed in another place, and found in a dying state. The cruel parents were arrested going up to town to make confession of their crime, having repented as they said. We give but a lame account of the and affair, because we cannot believe that parents are extent who could marder their children so wantonly. When the woman was committed sue was so ill that the Sheriff sent her to the Hospital under charge of a Constable.—Kingston Whig.

DROWNED.-The Colourg Star, of Friday last, says, a man, named James Kernaghan, an attorney of Ennishiden, Iraland, was found drowned yesterday, about 12 o'clock. Some suspicious circumstances connected with his death are the subject of the Coroner's inquiry this morning.

We learn from the Montreal Gazette that on Friday morning, about 9 o'clock, the Artillery Barrucks, at Chambly, were discovered to be on fire, and were speedily destroyed, with all their The lose will principally fall on the contents. The loss will principally fall on the officers of the garrison, whose winter appointments were stored there.

The number of deaths in Montreal, from the 25th to the 31st July, is 214-of whom 65 were emigrants.

From May the 10th to July 24th the total number of emigrants to Quebec who had died on the vessels, out and in the hospitals and tents at Grosse Isle, was 4572.

FIRE AT GUERPH .- On Friday morning last the Wellington Mills, owned by Mosers. Clark, & Co. were destroyed by fire. Loss about £5,500; insurance £2050. The fire is believed to have been the act of an incendiary.

The arrivals in Saratoga by railroad, from the 23rd of July to the 3rd mat, were in number 1854.

The Mobile Board of Health on the 23th ult.. reported a case of yellow fever.

The electors of Milwaukie have voted to borrow \$12,000 to improve their harbour.

About \$5,000,000 are yearly earned in Massa chunetts, by females employed in various factories and Manufactories of straw, hats, stocks, &c. About 40,000 females are thus annually employed.

A great amount of debenture goods is passing through this place for Canada.— Probably a larger amount up to this date than in all last year. It is said there are not vessels enough to do the present pressing business between this port and the Queen's dominions. [Oswego Whig.

The Spanish Government has resolved to abolish the inland custom-houses, which have hitherto cramped the intercourse between the different provinces of Spain.

Nearly 100,000 emigrants have left Liverpool in the first six months of the present year, in 431 ships.

MEXICO.

The Tribune has received the following by telegraph. RICHMOND, Aug. 6.

By an arrival at New Orleans, from Mexico.

ve have intelligence of the failure of the peace negotiations. Scott was preparing for an immediate advance upon the capital. He was expected to move forward on the 16th of July.

Santa Anna was preparing to give fight with an army of 25,000.

Another skirmish between Gon. Pearce and the guerillas. The Mexicans were defeated.

Santa Fee has been totally destroyed by the order of Governor Wilson.

Toronto Market Prices.

	Aug. 14.	3.	d.		3.	ď٠
-	Flour, per harrel, 196 lbs	22	6		25	Õ
•	Oauneal, per barrel, 196 lbs	27	6.		28	6
ŧ	Wheat, per bushel, 60 lbs	3	9	ē	4	ž
-	Rye, per bushel, 56 lbs	3				4
•	Barley, per bushel, 48 lbe	2		•		6
7	Oats, per bushel, 34 lbs	ĩ	101	_	2	ŭ
- 1	Peas, per bushel, 60 lbs	2	0	•	2	6
đ	Potatoes, per bushel	2	6	•		ğ
ſ	do new ner neck	ĩ	3	6		6
ı.	Onions, per bushel	ã	9	ā		ŏ
e	Tub Butter, per lb	ŏ		•		6
٠,	Fresh Butter, per lb	ŏ				9
	Fran per dozen	ŏ	5	ā	ŏ	74
r	Eggs, per dozen Beef, per cwt Beef, per lb	ž			20	ő
5	Beef, per lb	ī		-	Õ	4
۰	Purk - ner 100 lhe	٩ñ	n	7	22	6
h	Hay, per ton	<u>~</u>	6	=	40	ŏ
ŕ	Straw, per ton	95	ŏ		30	ŏ
	Timothy, per bushel, 60 lbe	4		-		ŏ
. 1	Mutton, per lb., by the gr	ō			Ö	3₹
	Veal, per ib, by the gr	ŏ	2	7	ŏ	3
	Turkies, each	2	6	2	4	7
	Geere, each	ō		-		ŏ
	Ducks, per couple			ī		ŏ
	Fowle, per couple	î		•		ŏ
	Chickens, per couple	é	30	-		Š
:	Bacon, per lb	ō	4	-		
-	Hama nas aust	40		=		0
_	Hams, per ewt.	ũ		-		6
٧.	late, hat more conserver and con-	·	•	4	v	•

Advertising Department.

Greer of the Board of Health.

ORDIRED—That no Immigrants be permitted to bring into this city any beds, bedding, articles of clothing, or luggage, before the same shall have been inspected by the Constables attending on the Wharves, and they are found to he in a clean and proper condition. Any Carter Cabinan, or other Carrier, who shall bring into the city any such bed, bedding, articles of clothing or highest he same have been ining, or luggage, before the same have been inspected and passed by the Constables aforesaid, shall be forthwith proceeded against for the violation of this Order; and Tavein-Keepers, Lodginghouse-Keepers, or other person or persons whatsoever, permitting the introduction into his house or premises of any such articles as above described, before the same have been inspected and presed by the said Constables, shall also be forthwith proceeded against as atoresaid.

Ordered,—That the Constables attending at the

Wharves and Sheds, shall cause all unclean bods, Wharves and Sheds, shall cause all unclean beds, bedding, clothing and inggage, to be instantly washed and pure of by the Cowners, and, that the said Constables shall inspect the contents of all luggage, boxes or chests, in order to ascertain whether any unclean cothing, bedding, or other articles of persona use be contained therein, and if any smaller found, the said luggage-boxes, or chests shall be prohibited entrance into the City, and shall forthwith be cleansed and purified, in such manner and place, as shall by the said Constables be indicated to the Owners.

Published by order of the Board.

Published by order of the Board,

CHARLES DALY, C. C. C.

Board of Health Office, July 30, 1847.

47G-

All the City papers to insert once, and no more.

Notice.

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

Brewer, McPhail, & Co.,

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

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

Drug & Medicine Business,

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

PICHARD BREWER, LOWARD MEPHAIL, ROBERT MEPHAIL, JOHN BENTLEY.

Toronto, 9th March, 1847.

J. Ellis, Civil Engineer.

HORIZONTAL. Inchned, 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 required, to persons employing him, showing and proving that the Coleculations are founded upon true principles, with Plans, Sections, or Model Maps, showing the true Cubic Measurements of Cuttings, Embackments, Grading, and Side Drains, so simplified that almost any person may keep a correct check as the work proceeds upon the quantity of work done. the quantity of work done.

Peter street, Toronto, January, 1847.

Notice to Agriculturists.

JOHN BELL. No. 7, VICTORIA STREET, To-ROSTO, CARRIAGE, SILLIGH, AND AGRI-GULTURAL IMPLEMENT MANUFACTURE ER, begs to acknowledge his sincere thanks to his numerous Friends and Costomers, who, for a series of years, have so hierally patronised him in the above line. J. B. continues to manufacture, and keeps constantly on hand, Double and Single Carriages, Lumber Waggons, Carts, Lumber and Pleasure Sleight, Cutters, Harrows, Scotch Ploughs (Wooden),—an article that defies competition, one of which was awarded the first prize at the late Provincial Agricultural Exhibition—Horse Rakes, Turnip Drills, and every article in the Agricultural Implement line.

Implement line.

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

good security.

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

All orders punctually executed when accompanied with cash or approved references in the City.



Home District Mutual Fire Company,

Office.-Nelson Street, opposite Adelade Street. Toronto.

TNSURES Dwellings, Houses, Warchouses, Buildings in general, Merchandize, Household Furniture, Mills, Manufactories, &c.

DIRECTORS:

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

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

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

All Losses promptly adjusted. Letters by Mad must be post-paid. December 20 1846.

Workman Brothers & Co.,

No. 36, KING STREET,

FFER 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 Waggen Boxes, 2 tons Cast Steel,

3 tons Blister Steel,

1 ton Spring Steel,
3 ton Eagle Steel,
2 tons Camp Ovens,
2 tons Bellied Pots,
5 Blacksmith's Bellows,

60 Blacksmith' Vices, 15 "Hill's" warranted Anvils, 120 Sugar Keules,

120 Sugar Kettles,
40 Potash Coolers,
10 hoxes "Pompool" Plates,
25 Box Stoves, 21 to 36 inches,
450 casks Cut Nails,
50 casks Wrought Nails,
20 casks Patent Pressed Nails,
35 casks Horse Nails,
40 casks Vrought Spikes,
40 casks Cut Chain,

40 casks Wrought Spikes,
40 casks Cord Chain,
200 boves Windows Glass,
2 tons Putty,
20 dozen Common English Spades,
10 dozen Common English Shovels,
5 dozen Frish Spades,
2 dozen Scotch Spades,
60 dozen Steel Shovels,
8 dozen Steel Shovels,

8 dozen Steel Shovels.

10 dozen Grain Scoops,

40 Philadelphia Mill Saws.

40 "Fairbanks" Platf'm & CounterScales

--- ALSO-

JUST RECEIVED, ex ships Capricorn, Baron of Brander and Bockshire, in ad present Stock of HARDWARE, in addition to their

18 PACKAGES OF SHEFFIELD & BIRMINGHAM

Shelf Goods,

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

R. H. Brett,

161 KING STREET, TORONTO.

GENERAL MERCHANT-WHOLESALE.

IMPORTER of Heavy Hardware, Birming-ham, Shelfield and Wolverhampton Shelf Goods, Eartheaware, and Glassware, in Crates and Hhds.

Also,-Importer and Dealer in Teas, Sugars, Tobaccos, Frints, Spices, Oils. Paints, Dye Woods, Gunpowder, Shot, Window Glass, Cotton Batting, Wadding, and Candle Wick.

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

Toronto, Nov., 1846.

I-6m.

POR 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 us any other House, and respectfully solicits a share of public pa-

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

Toronto, 1st January, 1847.

Swain & Co's Hygeian Medicine,

OR, WORSDELL'S

Vegetable Restorative PILLS.

R LCOMMENDED as the best FAMILY MEDICINE now in use, by thousands in Great Britain, the United State of America, and Counds, for Restoring Impaired Nature to Hearth and Vigoria, and preventing Disease in the Human System, by Purdying the Blood

Prepared solety by J. SWAIN & CO., 65, Youge Street, Toronto, who respectfully call the attention of their Agents, and the Public in generd, to their vacous other Medicines, particularly their CARMINATIVE for CHILDREN, and their STOMATIC BUTTERS, ESSENCES PERFUMERY, Ac. Ac. Ac.

Authorised Travelling Agents.

Mr. Jacob Hick,
Mr. Jones Wetherald,
Mr. W. H. Smith, and
Mr. D. Swallow;
By whom (and at their Establishment, as above)
Orders will be received, and punctually at

tended to. STRIKING CURES.

WHO WISHLS TO THROW AWAY HIS CRUTCHES! Read the following Latract of a Letter received from our Agent at Richmond, Dalhouse Dis't:—

Richmond, 5th August, 1846. Messrs. John Swam & Co.,—As Agent here,
I heg leave to inform you, that in all cases where
your invaluable Pills have been used in this vieniity, they have been productive of the most happy
results: the rehefulforded to individual suffering
in various ways has been almost incredible; therefore I cannot pretend to give a detailed actime I cannot forbear mentioning one particular case of a man, 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 dwel-hing, excepting by the use of "Crutches," from the effects of inveterate running sores in both legs; yet, surprising to say, the Pills have entirely effected a cure, and the man is now able to work, and travel about his business, whole and sound: Township of Goulbourne, in this District.

I remain, Gentlemen.

Yours with respect.

P. McELROY.

To J. Swain & Co.,

Edwardsburgh, January, 1817.

Genterment,—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 him 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 return 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. Swain & Co.

GENTLEMEN,-For sixteen or seventeen years I was afflicted with a Stomach Complaint, attended with distressing pain and general debitity, 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.
GENTLEMES,—I have been in the practice of using your Pills myself, and recommending them to others, and I have found them to be unequaled in their effects upon the human system : and I believe your Medicine is a safe and efficient remedy against those afflicting disorders to which mankind is subject.

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

MARK THIS.

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

J. WETHERALD.

WONDERFUL RESTORATION TO HEALTH.
Mr. AVERILL, of the Township of Brantford,

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

CURE OF INFLUENZA:

Mr. B. Wincur's Child was sick for three months, from Influenza, and was reduced to a skeleton, and all hopes of his recovery were given up. He was advised to take the Vegetable Restorative Pills, which soon effected a cure, and he lis now enjoying good health.

CURE OF INFLAMMATION IN THE BOWELS.

Mr. W. H. SMITH, Toronto, was suddenly attacked with Inflammation in the Bowels: in this alarming state he took a few doses of the Vegel db. Restoraive Pills, and was perfectly cured in four days.

CURE OF LAKE FEVER.

Mr. W. R. Cawthorn, of Bowmanville, had a very severe attack of Lake Fever; but after taking four boxes of the Restorative Pills, he was entirely cared.

Mr. Wetherald, General Agent for Kingston and surrounding country, writes as follows

Messrs Swam & Co., Gentlemen.—Annexed I give you three certificates. One is a very re-markable cure of a young man named Henry S—gh, son of Mr. S—gh, a mon known far and S=gg, sub-of-of-c-gg, a man known ar and wide, who lived in Smith Crosby, Johnstown District. While on my journey, seeing a very respectable house, called in and found his son atting by the fire very ill; had not done anything for 15 months, and they had tried many means without effect—I left two boxes of pills—no cure no pay. I called again, on my last journey, and the old gentleman would have put me in his pocket if he could, he was so pleased. He said, those two boxes of pals have entirely cared my son, and as a proof of it, he yesterday emptied the sleigh of 112 bushels of wheat. His gratitude was unbounded, for he had lately lost one son and two daughters by consumption.

Joseph Cox. Esq., a good Old Methodist, who built a large chapel, and gave it to the Connexion, was very ill when 1 called. After taking two hoves of pills, his doctor, said another "would do tor hun". He however preserved, and when I tor him." He however preserved, and when a lealled again he was taking the ninth hox; and if ever your pills carned the title of "renovating" it was in this case, for he is indeed a new man, and daily attends to the business of his farm.

CURE OF AGUE AND FEVER.

Mr. Martin, had two children severely effected with Ague and Fever, who were entirely cured by the use of the Restorative Pills.

Fairbank's Platform and Counter Scales.

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

These Scales are adapted to every kind of business transacted by weight; and from the extensive nee, 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, furnished with weights to weigh even bushels. For Sale by

WORKMAN BROTHERS & Co.

Toronto, 22nd March, 1817.

NEW CHEAP

Clothing and Tailoring. ESTABLISHMENT,

130 YONGE STREET, TORONTO.

Samuel Marphy

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

A VARIETY OF

READY-MADE CLOTHING

suitable for country use, constantly on hand and will be sold Chenp for Cash.

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

Toronto, March 17, 1847.

THE Canada farmer,

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