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TORONTO, FRIDAY, APRIL 23, 1847.

No. 7.

SMUT, IN WHEAT, AND OTHER GRAIN.

There are very few subjects of meater inrest to the Canadian Farmer than the one reated of in the following article. The adautages of a careful selection of seed, and f steeping it previous to sowing, are so fully xplained and so satisfactordy proved, that eventure to think no farmer who attentivereads what follows, will continue the lovenly and short-sighted practices so prealent in Cample. The time for sowing pring wheat is now at hand, and we have o doubt many persons will find it necessary resort to it for their bread. The informaion in this article will, therefore, he opporune, and as it comes from the very best ource, viz., The "Farmer's Encyclopedia," my be relied upon :-

SMUT.

A disease affecting almost every species of orn, the grains of which become filled with fetid black powder, instead of containing arinaccous matter. Wet seasons, animalculæ, organic weakness, deficiency of the parts of generation, and other circumstances, have een assigned as the primary causes of this lisease, but all the results of experience are gainst the opinion that these are more than contingencies which aggravate the sympoms, and accelerate the progress of the infection. That the smut does not arise from a deficient fecundity is apparent, because it affects and destroys the grain long before the sexual organs are fully developed. Fogs, exposure to intense sunshine when moist, or other atmospheric influence upon the car after it has been protruded, have been assigned as causes; but these cannot be productive of the mischief, for the disease has been observed during an early stage of the vegetation of the car, and long before it has escaped from the leafy envelopes: this also dismisses the opinion cotertained by some that the disease occurs after the grains are fully formed. It does not arise from the too abundant moisture of the soil, because I have universally observed that the driest part of a field are as liable to bear an infected grain as the most wet; and we all know that infected plants stand surrounded by others entirely untainted. Some persons have thought that insects are the origin of the disease; but the most accurate checryations have refuted this opinion, and shown that the discased grains may be an agreeable uidus for the larves, but that these always appear after the disease is matured. Upon examining some of the diseased grains, Mr. R. Somerville found upon them a minute insect, in form like a wood-louse, which I knew from observation to be a species of the acarus, and these he considered the cause of the disease. But this is a conclusion unwarranted by observation, for similar vermin are found upon the roots of the Brassica tribe that are infected with anbury; and, their liabitat.

liable to the disease; but this is refuted by the fact that it appears in some years, and is covers the ear, and examining the young ear. Dr. Hales bruised numerous grains of wheat

and the former we know have no embryo.

Having thus disposed of the several causes which have been erroneously assigned, I will now proceed to detail the more correct knowledge that has been accumulated respecting this plague of our corn crops.

This disease is severally termed smut dustbrand, blight, burnt corn, Sc. In France it is commonly known by the name of charbon and nielle volante. Botanists, nided by the microscope, have discoved that the cause of smut is a parasitical fungus, which preys not only upon the sap, but destroys the very organic structure of the grain and chaff upon which it fixes. The majority of naturalists agree in distinguishing the fungus by the nonvines, these, and the authors who have employed them, may be usefully enumerated. to a fine clustic thread. They are exceed, them together between his hands. tense black colour, having a disagreeable fetid a drill in his garden. sect, the Dermestes ata of Marsham.

their own weight of a green, butyraceous, repeated the next season. fetid and acrid oil; 2nd, nearly one-fourth of, which is attacked is in general totally destroyed, but sometimes the same enreontains sound could be found. as well as smutty grains; and even one end of the same grain has been found diseased the hose or blade (folium raginans) which fordshire.

plants suffer from smut as well as the female, an inch of the upper part of its stalk is commouly not quite straight. If cut asunder at not more than a quarter of an inch below the ear, it will be found nearly solid or filled with pith; the circulation above is therefore obstructed. The mean most important point for consideration is, from whence is the infection communicated; and the following experiments will be found to have demonstrated that it is capable of being conveyed to the plants by the agency of the parent seed. These experiments are satisfactory and decisive; for although they are only in accordance with the most prevalent opinions of farmers upon the point, yet prevalent opinions are not always in accordance with truth, and are never to be implicitly received until sustained title of Uredo segetum; but as the other sy- by evidence, which is independent of prejudice, and more accurate than surmise.

Mr. R. Somerville, in a paper published in Uredo segetum, Pursh, n. 27; Chaos usti- the Communications to the Board of Agrilago, Lin. Syst. Nat. 1326, n. 4; Reticulaire culture, detailed experiments fully substantides bles. Bulliard's Uungi, vol. 1. p. 90, ating the fact, that the disease is communicaplate 472, f. 2. Reticularia segetum, Wither- ble to the crop from the parent seed. He ing, iv. p. 383. Charbon, Tessier, Des Mala-mixed some smutted grains with others per-dies des Grains, 299, Bulliard describes this fun-feetly healthy, and kept them two mouths; gus as globular, extremely fine, and attached after which, previously to sowing, he rubbed ingly numerous, enveloping the seed and chaff, sample was then divided into two equal parts, of the plants they affect, and are, as well as one of which was well washed with clear their own still more minute seed, and an in- water three or four times, and then sown in The other half was smell, which has been not inaptly compared sown similarly, but without being washed or to stale lobsters. Mr. kirby tells us that otherwise prepared. The blades appeared Mr. Lathbury examined the dust of this above the surface at the same time, and durfungus under a powerful magnifier, and found ing the first two months of their growth it consisted of numerous minute particles, there was no visible difference in their apuniform in shape and size, much smaller and pearance. Soon afterwards many of the blacker than those of the pepper brand, and plants from the unwashed seed were observed less easily separable: they seemed to be con- to have a darker and more dirty green hue tained in little irregular cells. This dust or than those from the seed that had been seed is the food of a small, shining, black in- cleansed with water. This difference of colour by degrees became more striking, and in-Chemical analysis has demonstrated that creased until the grain was protruded from this fungus effects an entire decomposition of the blade, at which time many of the darkthe vegetable particles of the grain it infects, coloured plants evinced symptoms of decay; the saline constituents remaining nearly un- and the whole of them, when fully developaltered in the grain. Purmentier, Cornet. ed, were found to be completely destroyed by Girot, Chantians, Fourcroy, and Vanquelin, the smut. The plants from the washed seed have successively examined it, and the result produced scarcely a single diseased ear. of their researches is, that smutted grains of These results were not fortuitous, for the exwheat are composed, 1st, of about one-third, periment afforded a similar testimony when

The experiments of Mr. Harrup agreed a vegeto-animal substance, perfectly similar to with the preceding. In these, wheat, conthat which comes from putred gluten : 3rd, a sisting of half of sound and half of smutted black coal, one-fifth of their weight, similar grains, was sown without being previously at to that which is found in all remnants of putrefied organic compounds; 4th, free phos- which nearly two-thirds were smutted. phoric acid, amounting scarcely to more than Similar wheat, soaked for twelve hours in a course of the smut; 5th, phosphates of ammo-saturated solution of common salt, and then nia. magnesia, and lime, in the proportion of mixed with quickline, produced on the same a few thousandths, &c. The ear of corn soil, in the same situation, and in the same season, a crop in which not a smutted ear

Similar, but more extended, and even more accurate experiments, were completed by isdeed, this genus of insects is invariably and the other end sound. However, as all Mr. Bevan, and are recorded in the ninth rains in an ear are usually infected, so, volume of the Agricultural Magaziuc. They when one stalk is smutty, it generally happens give the result of his trials with various liquids growth, plentifully with water, poured upon that all the ears from the same root are so too. as steeps for seed-wheat. The wheat was injured by the process of thrashing are most In March or April, upon carefully opening grows on a sandy soil, at Leighton in Bed- plants escaped infection.

scarcely to be detected in others. The Rev. although it was not more than one-sixth of an accordant experiments in, that washing the treated in every respect, but to which moisinch long, and almost close to the roots, M. seed is effective in preventing the communiof different sizes with a hammer, but the re- Du Hamel found the embryo already black cation of the disease to the crop to which it saucer in which it was placed, pots being and convinced him that this opinion is erroand distempered; a fact confirmed by the regives birth. If the wighling was frequently sheltered enfirely from the rain, produced
repeated, or the cleansing made complete, by
plants which were not at all infected. Almonetrosity of the embryo; but M. Cymen car comes out of the above-mentioned envelthe shown that the male flowers of some ope, it looks lank and manger. About half for some bours, it is probable that simple
generally imparted to a wheat crop by the

water might be employed for this purpose as effectually as any saline solution. But as this would require more labour than is desirable, and as the salts, &c., employed are beneficial in other ways, by protecting the seel from vermin, and ministering to the future vigour of the plants, steeps are generally and very properly adopted.

The experiments of Mr. Bevan indicate that lune-water is the most effective of these preparations; and, if this be adopted, it may be prepared by mixing 1 pound of fresh lime with three gallons of boiling water, and the clear liquor then to be poured off and immedintely used. In this liquor the wheat should be soaked for 12 hours, stirred twice or thrice during the time, and then mixed upon a floor, with the powder made by pouring 3 gallons of boiling water upon 4 pounds of lime. I have had no experience of the effects of lime-water as a preventive of the smut; but with stale urine, and a solution of common salt, I have witnessed numerous and extensive experiments. The results, without exception, were favourable and nearly similar; and this being the case, a preference is to be given to common salt, as being decidedly the most cleanly and the least disgusting. The mode which I have observed to be the most effective is, to wash the seed with pure water, pouring this off with all the floating grains, and then allowing the seed to sonk for 12 hours in a solution of common salt, having a strength or specific gravity sufficient to float a hen's egg. I have no doubt that lime like common sult, is effectual against the disease, by reason of its powerful action upon the texture of the fungus tribe. Every housekeeper knows how completely mushrooms dissolve away when sprinkled with salt; and in experiments I have made upon the Urego segetum, I found that the effects of common salt upon this fungus is not less remarkable.

Mr. Tull, MM. de Lignerolle, Douat, and others, agree in recommending that the seed to be sown upon any farm should be frequently obtained from other soils; but, however beneticial this may be for securing other desired (ficets. I do not understand how it can prevent the occurrence of smut unless tho seed is obtained from a crop and a district notably free from the disease. little doubt but that the method in which the disease is imparted to the plant is by its root imbibing the extremely minute seeds of the Uredo along with the moisture of the will. This opinion is confirmed by the observation that the disease is most prevalent when the winter has been mild and the spring wet; for, in such seasons, the abundant moisture passing through the soil is most likely to convey the seeds to the mouths of the plants' radicle fibres.

I remember trying some experiments, the full details of which I have accidentally lost, in which I buried some of the Uredo segetum about an inch below the surface of the soil, in a garden pot in which some wheat was growing, supplying those plants, during their after

Another garden pot, in which wheat from The conclusion from these and many other the same sample was growing, and similarly

means of opinion that this is the only source where the curl destroys the whole of his pota-of infection. I have kept ears of wheat that toes, or the mildew reduces the produce of during more than twelve months in a situa- miscrably sensible of the injury he has sustion where they experienced the vicissitudes tunned; but if, within the circle of cornof temperature during all the seasons, un- ears around him, as he surveys his crops, he protected by more than the paper envelope only sees a sprinkling of those affected with in which they were suspended in an outhouse, the smut, he looks upon this as of insignifi-Yet when the Uredo that had been thus ex- cant consequence. Yet, in the experiments posed was mixed with healthy well washed of Mr. Bevan, in the instances where only seed-wheat this produced diseased plants in two smutted cars occurred in three sheaves a triplicate proportion more numerous than the weight of the straw was reduced nearly that not so mixed. This experiment demonstrates that frost and drought, acting in constrates that frost and drought, acting in conservation sevenths.—(Essay by G. W. Johnson, Quart. cert with a damp atmosphere, do not destroy Journ. Agr. vol. ix. p. 45.) the vegetating power of the Urcdo's seed. Such being the fact, why may not this seed remain in the soil ready to impart the We know that, owing to its explague? treme lightness, the seed floats buoyantly in the air, and may be carried by winds to disthe following harvest. The opinion that the soil is one source of infection, is sustained by the fact that the fields in the vicinity of the sea are rarely injured, and never extensively, by the ravages of the smut. Such soils are information he has obtained upon such submon salt, and the effects of this saline compound upon the Uredo has been noticed already. These considerations suggested that are necessary for the banishment of the dis- the disease and the appropriate remedy :-

wheat plants affected by the smut but have and which extends sometimes to the throat never perceived that they had a diseased appearance : a fact which I find confirmed by opinions as to the seat of this disease, but the the researches of Mr. Kirby. Although the true character of glanders is now well estabroot is not affected, yet I have invariably lished. The causes of the disease are not found the smutted plants of a form and habit even yet well understood, but whatever may much less robust than those undiseased. The be the origin of the distemper, the result is average result of Mr. Bevans's experiments always an inflammation of the mucous memis, that smutted wheat produces straw in the brane. Many other diseases are liable to be proportion of only 30 to 36.75, when com- mistaken for this; but the true glanders is pared with wheat unattacked by the smut. known by fixed and certain characteristics. This is not a result contrary to that which by those who have seen it; a discharge of might be anticipated; for in plants, as well as unucous from the nostrils-sometimes colouranimals, an organic affection so serious as this less, as the white of an egg-sometimes yelis usually accompanied by a general emaci- lowish, and streaked with blood; it becomes, ation of the frame. So decidedly is this ef- as the disease advances, purulent—then dark, fect produced upon wheat, that a practised corrupted, and fetid; it sometimes is checked eye can at once detect by its appearance, for a day or two, and appears again. The before the diseased car is protruded, a plant glands of the lower jaw become inflamed and that is thus distempered. The stem and swelled; but the horse does not cough nor leaves look upright, thin, and stiff, wearing ! the aspect that is best described, to those who disease. But if the complaint goes on, it atknow the appearance, by the term staring. I cannot conclude without remarking that the nostrils are covered with deep and maligthese facts strengthen the analogy I am so fund of tracing between plants and animals. horse languishes in this condition a long time, The atrophy exhibited by both, when under the influence of discase, is strikingly illustrative of their close relationship; and this is further carried on by their being equally liable to the power to do something to arrest the ravages of parasites. The skin of every animal is liable to be infested by virmin, as its intestines and other viscera are by worms and prescribed in the farcy, may be adopted with various other creatures. So plants are not only subject to invermination, but, like autmals, they are preyed upon by various genera of their own race. Their barks are assailed by numerous lichens and fungi, whilst internally they are a prey to the Uredo I have just described, and to several others of the fungus tribe. Animals have their larger parasites, as the tick, &c., and vegetables similarly bear the misseltoe, dodder, and others. This repeated urging that plants are closely punch a whole in the bone, large enough to allied to animals in every particular is not without its use. Every year's experience convinces me that it is not less beneficial to cultivate plants with the least possible injury to their various parts, than it is to treat our farming stock with gentleness and an attention to their comfort; and it is by deonstrating the analogy between the two est divisions of created beings, the reason of the cultivator is to be drawn to regulate his practice.

Finally, I will observe, that the farmer is

agency of the seed sown, yet I am by no crops as of trivial importance. In such cases as After having prepared the horse by bleeding prevail extensively in Canada. You need not were converted and destroyed by the Ureda each acre of wheat to a few bushels, he is

GLANDERS.

The following remarks upon "Glanders" tant soils, which in the autumn of the same should always advise, in cases of serious disyear, before any extremity of cold has been ease, that the assistance of a good veterinary endured, will have to bear the wheat crop for surgeon be procured as soon as possible. impregnated more than any other with com- jects, the greater is his chance of success. In applications to the soil as well as to the seed have some acquaintance with the nature of

A disease of the lining membrane of the I have frequently examined the roots of nostrils, commonly reputed to be contagious, and lungs. The old farriers differed in their lose his appetite, nor give any other sign of attains a frightful intensity—the interior of nant ulcers, the bones become carious, and the and dies. The glanders has long been regarded as incurable, but the discoveries of modern veterinary medicine has put it in our course of this formidable disease. When it is not of too long standing, the internal treatment advantage, and make use of the injections in the nostrils, recommended in the strangles. When the ulcers are well cleansed, lime-water, or some other astringent injection, should be substituted. It will be dangerous, however to suppress too auddenly, the discharge by means of astringents, especially when the ulcers are not very deep. In order to introduce the injections more easily into the frontal sinus, some good surgeons advise us to introduce a syringe. When the ulcers of the nostrils appear to be taking on a more healthy action, we should join to the employment of the astringent, reginous fumigation. For this purpose we should burn on a shovel of coals, a handful of the aromatic mixture, No. 36, and receive the vapour in an inverted tunnel, the tube of which is inserted in the horse's nostril—this may be done twice a day. worth the trouble, and is not too nearly worn

and other general treatment, he should take at night, the pill No. 9, and the next morning the pill No. 10. These medicines may be repeated as often as they may seem to be necessary, leaving each time, an interval of two or three days between each dose. If his strength fails under this mode of treatment. suspand it for some time, and in the interval, he should take an ounce of nitric acid in a quart of sweetened water, every other day until he has recovered his strength sufficiently to take the pills again. When it is thought that the pills Nos. 9, and 10, have sufficiently operated, we should continue the treatment by giving, at first every day and then every two days, the pill No. 35, and continue them till he is cured. If, in spite of all treatment, he gets no better, we must kill him, both to keep the disease from other animals, and to save needless expense. All precaution must be used to keep other horses from the infection, and the man who tends him must be careful of himself, for the disease may be taken by man as well as animals.

No. 36, Juniper berries, eight ounces; osemary and sage, each four ounces; sugar, four ounces; myrrh, two ounces—mix.

No. 9, Calomel, a dram; red precipitate. half a dram; golden sulphuret of antimony, hard soap, ginger, gum-guniac, each a quarter of an ounce-mix with molasses, and form a pill.

No. 10, Aloes, an ounce; resin of jalap, ginger, and hard soap, each two drams; oil of sassafras, a dram-mix with molasses, and form a pill.

No. 35, Turpentine, hard soap, nitre, sulphur, liver of antimony, and ginger, each four ounces. Reduce the ingredients to a fine powder and mix into a mass, with molasses, and divide into fourteen pills.

TO CORRESPONDENTS.

TO CORRESTONDENTS.

On Your communication is well verifien and pertinent to the subject you have chosen; but we profer leaving such information to be sought through other channels. The operations discribed are generally entrusted to those who follow the business, and must be presumed to know something about it; and though we admit it is a subject of importance to the furner, and onget to be understood by him, yet as our paper is intended for the eye of females as well as others, we must display a little delicacy in the selection of subjects for consideration. Without the "rooster" fustidiousmess of our Yankee neighbours, would our correspondent think it quite proper, and would be feel quite "at home" to sit down and read his communication to the family circle, embracing two or three young ladies of sense and ordinary refinement! This is our test; and, according to our notions of modesty, we shall always apply it.

H. Bronte, will please accept our thanks for his B. H., Bronte, will please accept our thanks for his attention and promise. He send copies of the missing papers along with this number, addressed as he directs.

CANADA FARMER.

April 23, 1847.

MANURE-QUANTITY TO THE ACRE, &c.

At the very foundation of good husbaudry lies the subject of manure. No farmer can prosper, or even "get along," as the phrase is, for any length of time without paying some attention to the making and saving of manure, as well as to the proper time and mode of applying it to his land. The whole subject has been well discussed in the various agricultural Journals in the United States and Great Britain, and by numerous agricultural writers, during the last four or five years; but it is far from being exhausted. Experiments of all kinds, and upon all kinds of soil, have been made to test the value of the different fertilizing substances, singly and combined in the shape of composts, and also to ascertain the quantity and mode of applying them which would ensure the greatest benefit to the farmer. Various theories have been promulgated, various opinions expressed, and numer facts elicited and discoveries made, which have contributed in a wonderful degree to the advancement of agriculture, and the substantial interests of all who are engaged in it, or When the disease is of long standing, there dependent upon it. Still, the very worst pracis little hope of a cure. But if the horse is tices of the werst farmers, during the worst es, (in an agricultural sense)—anterior to much too prose to regard the diseases of his out, the following means may be tried; the diffusion of so much light on the subject, of mit-diseases.

travel three miles on any of the public roads leading from Toronto, to see those methods adopted, by which it has been proved over and over again, experimentally, scientifically, and in every possible way, that one half of the manure, may, two-thirds of its fertilizing power is atterly lost—dissipated in the air. Now, this waste cannot be afforded; we must husband our resources, and give back to the soil those ingredients in the shape of manure, which we take from it by our crops, or wo shall find to our cost, so soon as the decayed timber and leaves of the forest are exhausted, that we have neither the means of making the one, nor producing the other. We shall constantly keep our attention directed to this most important subject, the "economy of manures," and if those who are favorable to improvement will take the trouble to extend the circulation of our Journal, we feel sure we shall be able to do some good to the public and much to individuals. It is in questions of this kind that agricultural Journals are most useful—without them there is little hope of improvement. We quote the remarks below from Mr. Yountt, the writer of British Husbandry, and one of the best practical writers of the day. We were pained to hear a few weeks since of his melancholy death.

Dr. Coventry, for some time Professor of Agriculture in the University of Edinburgh, whose business and study it was to collect data and make deductions in this and other agricultural matters, was of opinion that from four to five tous of manure of the kind usually denominated spit, or tolerably rotted dung, are yearly required for every acre of land to keep up its fertility. This supply, he thinks, a well-managed farm will produce :-

"According to that calculation," says our

author, "it must be observed, that the course of crops is supposed to consist—on light soils, of the the alternate plan of com & green crops, on clays which do not admit of that system, that the holding contain a proportionate qua stity of grass land; and that the quantity of manure should be supplied not in small quantities annually, but in large ones, at intermediate distances of jour, five, and six years. Light soils, in the common course of husbandry. rarely require the application of putrescent manare oftener than once in four years, and in all cases where clover is allowed to stand two seasons, it may be deferred without disadvantage for another year. Heavy soils may run six years without it, provided that the land be laid one year in fallow, and that there be sufficient men dow to be reckoned at least one crop in the course. It being, however, clearly understood, that, whether on light or heavy land, nothing but grain, seeds, and live stock is to be sold off the farm, or else replaced with an equal portion of purchased dung; that the whole of the green crops, the haulm of pulse, and the straw of corn, be used in the most economical manner; and thatsome of the live stock be either soiled or fattened upon oil cake; which plan, if carefully pursued on good soils, with capital sufficient to secure an abundant working and fattening stock of cattle. ought, under fair management, to furnish an adequate supply of dung for any of the usual contres of culture."

" Having thus submitted to our readers all that occurs to us of importance on the subject of farmyard manure, we shall here recapitulate a sum-mary of the chief points which we deem particularly worthy of their consideration:-

- 1. To bottom the farm-yard with furze, ferts (in Yankee dialoct brake) dry haulm, (stubble, &c.) or any other loose refuse that takes the longest time to dissolve; and over that to bed it deep with straw.
- 2. To occasionally remove the cribs of store cattle to different parts of the straw yard, in order that their dung may be dropped, and their litter trodden, equally.
- 3. To spread the dung of other mimels, when brown into the yards, in equal layer over every
- 4. To remove the dung from the yard at lea uce, or oftener, during the winter, to the mixen.
- 5. To turn and mix all dang hills, until the roody or fibrous texture of the miniter con sphem, and the roots and soods of wee plotely decomposed, and until they cant a feel and most; by which time they reach their eth. and arrive at the

- 6. To keep the dung in an equal state of moisture, so as to prevent any portion of the heap from becoming fire-langed. If the fermentation be too rapid, heavy watering will abute the heat; but it will afterwards revive with increased force, un less the heap be either tradden firmly down or covered with mould to exclude the nir
- 7. To ferment the dung, if to be laid upon arable land during the autumn, in a much less degree than that to be applied before a spring sow ing.
- 8. To lay a larger quantity on cold and wet lands than on those of a lighter nature; because the former require to be corrected by the warmth of the dung, while, on dry, sandy, and gravelly soils, the application of too much dung is apt to burn up the plants. Still land will also be loo ed by the undecayed fibres of long dung, which, although its putrefaction will thus be retarded, and its fertilizing power delayed, will yet uhimately afford nourishment.
- 9 To form composts with dung, or other annual and vegetable substances, and earth, for application to light soils.
- 10. To spread the manure upon the land, when and, if laid upon arable, to turn it immediately into the soil.
- dang-hills in every possible way; and if not applied in a liquid state, to throw it again upon the mixen
- 12. To try experiments, during a series of years, upon the same soils and crops, with equal quantities of dung, laid on fresh, and afterwards rotted; in order to ascertain the results of their

"The fermentation of firm-yard manure is, in fact, a subject of far more importance than is generally imagined, for on a due estimation of its value mainly depends the individual success, as well as the national prosperity, of our agriculture. The experiments to which we point cannot, therefore, fail to come home to the interests of every man; they may be made without expense, and of common observation and intelligence Leaving, however, aside the discussion concerning the desputed worth of tresh or fermented-of long or short dung,-let the farmer sedulously bend his attention to the accumulation of the utmost quantay that it may be in his power to procure. The manner and the time of using it, in other state, must, however, be governed by circumstances which may not always be within his control: and | pondent in our last number. every judicious husbandman will rather accommodate himself to the exigency of the case than adhere strictly to his own notions of what he conceives to be the best practice. In fine, whether favoring the one or the other side of the question, let him collect all he can; apply it carefully to his crops, and then, trusting to events,—"let the land for five or six years, and states that his pota-and the muck settle it."

THE POTATOE.

Many persons are not aware that the ordinary method of propagating the potatoe is not the natural one. The potatoe when properly cultivated bears seed like other plants, and this seed, and not the roots, is the means which nature has provided for reproduction. And although there is a vegetative, or reproductive power in almost every part of the potator, so much so that it is called the vegetable Polypus, yet it has been found to degenerate when the natural process has for any length of time, been departed from. The better opinion now seems to be, that the discase of the last two or three years, so direful in its consequences, proceeds from a combination of causes, acting upon the plant while in a degenerate and enfecbled state, induced by the common and unnatural mode of propagation. Every other theory has failed to account for the disease in a satisfactory manner. A whole book has been written by an English Physician, Mr. Alfred Sme, to prove that the disease is caused by an insect of the aphis genus, which he calls the vastator. But the fact of the presence of any such insect upon the plant during the first stages of decay, has been denied by many persons who have taken the greatest pains to examine the matter. We have not yet seen Mr. Smee's work, and are not therefore able to judge of the grounds upon which he bases his conclusions. Bat even this theory, as plausible as any, does not shut out the possibility of the disease be-

plant, which has predisposed it to the attack of insects and readered it incapable of resisting their effect. It is well known to those who have investigated the subject, that plants are infested with insects peculiar to themselves. "Aphides or plant-lice," says the Editor of the Farmers Encyclopedm. " are found upon almost all parts of plants, and there is scarcely a plant which does not hurbour one or two kinds peculiar to itself." may be found that the aphis which Mr. Since and some others have detected, is a new creation in the insect kingdom peculiar to the potatoe plant. We hope intelligent persons in different parts of the country will carefully examine the progress of the disease, should it make its appearance this summer, and especially as to whether it be caused by an insect or not. It will of course be necessary to provide a microscope to make a proper exammation. Those "scientific" gentlemen who have taken their friends into the potatoe field and pointed out a few black flies on the stalk carried to the field, with the least possible delay, of the plant, and then learnedly jumped to the conclusion that the potatoe disease was caused by insects, must push their researches

The result of the two last years experience would indicate the following as the best course to be adopted in planting. Choose light loamy soils, in a high rather than a low application to the land. The whole quantity to rich enough for an ordinary crop without tadding fresh manure. Plant early, and choose early varieties for seed. In a short excursion through a part of the township of Toronto, which we made the other day, we observed a number of potatoe fields in which only a few rows had been dug. In almost every case these fields were low, and composed of a deep, black mould, containing large without any other trouble than the mere exercise quantities of undecayed vegetable matter. It has been found in other parts of this country, and in the United States, that upon this description of soil the crop has invariably failed. Those who have a piece of new land that has been well burned over, will do well to reserve it for the potatoe patch. We refer such to the remarks of our Markham corres-

> It is an opinion entertained by many that the best and only means of avoiding the disease in future, is to return to the cultivation of new varieties from the seed. A Mr. Smith. of Buffelo, has been engaged in this business possible order. We observe it was stated at a late meeting of the New York Farmers Club, that the Emperor of Russia had ordered large quantities of potatoe seed from the United States. One dealer had sent him 10 lbs. at \$20 per pound. Return to the seed, is the advice of many intelligent, practical men. We repeat the advice; wherever you discover the balls containing the seed, let them ripen, and earefully preserve them. In this way, new kinds will be produced in great numbers, and the renovation of the potatoe be speedily effected throughout the country. If the adoption of this plan will not accomplish the object, we fear we shall be compelled to dismiss the potatoe from its accustomed place on the table.

Since putting the above in the printer's hands, we have met with the following in an exchange paper. It is taken from a report of the proceedings of the New York Farmers' Club, and is confirmatory of the views we have expressed. It does not appear to us that the mere "loss of vitality" from the unnatural mode of propagation is sufficient to account for the suddenness and universality of the disease. Although it 's stated to have been making its appearance in Ireland and some other places gradually for some years, yet in this country it came upon us in one season, and thus suggested the existence of an atmospherical cause. If it were owing solely to the less of vitality, we should expect to find new varieties hearly if not quite free from disease. This may be the fact, but we have

whole subject requires more thorough, extended and scientific observation, and we hope a large number of our readers will this season give their attention to the matter and communicate to us the results.

mr. Hyde read an essay on the disease of the potatue. He attributed it to the loss of vitality in the plant in consequence of the continued planting from the tubers and not the seed. This was the opinion of the savans of Europe, and the Emperor of Russia had sent to this country for seeds. This view of the cause of the disease was confirmed by the facts of natural bistory. Ist. Most plants can be perpetuated only from the seeds and not from cuttings. 2nd The progeny inherits all the essential and most of the incelental properties of the parent. 3id. The tendency of plants is either to improvement or to deterioration. 4th. Great changes in plants require time and many reproductions. 5th. They are effected by soil and climate. 6th. Plants which have lost their vitality are preyed upon by parasites which were not bern on the plant. 7th Production of blossoms without seed was an evidence of the loss of vitality.

These admitted facts in natural history would explain all the appearances in diseased potatoe crops. Potatoes will blossom, but seldom go to seed, and have been preyed on by parasites. The varieties of climate, soil and condition of the tubers, would explain the inequality of the crops. He considered it as well established, that a loss of the tubers and that the crop was to be restored by planting the seed. Sull, good seed was necessary. If the parent was diseased, the progeny would be also. The practice of planting from sound seed had been tried by Mr. Smith, near Buffalo, with great success. These views of Mr. Hyde were concurred in by several members, who spoke of them as well established and generally admitted. These admitted facts in natural history would

It would seem from the following statement, in reference to an experiment in the lower part of this Province, as well as fruit similar ones in the United States, that we mny expect a return of the potatoe disease this summer; more general and more virulent, probably, than the last :-

Sherbrooke, April 8th

Sherbrooke, April 8th.

Potator, Diskask.—We have been shown by Mr A. Thompson, of this town, a stalk of a potator plant grown by him, in his house the present winter—which has, to all appearance, been struck with the potator disease. The plant has been growing vigorously till within eight or tendays, when it was struck with the disease. The leaves are spotted with a dark yellow color, and present the same sluny appearance, as when attacked in the summer season, in the open field. Whether this is an indication that the disease will prevail the coming season, we leave others to prevail the coming season, we leave others to conjecture. The prevailing opinion has been, that the disease was passing away, in this part of

DISEASES OF SHEEP.

We take the following from one of the most respectable American journals devoted to agriculture. The information was furnished, the editor states, by an experienced friend, practically engaged in the rearing of sheep. We must remind our readers, as we know much misconception prevails upon the subject of editorial responsibility, that they must not suppose that everything which appears in our journal is tried, understood, and approved by us. It never is, and never can be so. We must take things as we find them; nothing is perfect and infallible. All we can do is to use the best means of making the nearest approaches to perfection. It is in this that we may display our judgment and skill. In taking statements like the following from other sources, we exercise our best discretion upon the apparent reasonableness of the suggestions, relying upon what we may know of the respectability and discrimination of those from whom we borrow. What is intended to be given upon our own authority will be so stated, and for that we have no objections to be held strictly responsible.

MINASES OF SHEEP.

CURE FOR HOVEN.-Take i lb. of lard, 1 pin of milk, boil both down to a pint, mixing them well together. Give half of this immediately at blood heat, and the remainder soon after.

Another. Give I gill of urine with as n alt will dissolve. Hown arises from eating an excess of wet ch

'. This should be avoided by keeping the ani-le from clover fields which are dreached with ain or heavy dews, especially when particularly

CURE FOR SCAR-To 1 lb. tehacco add 12 etc. ey Sem wood-sches of er intable strongth for waching, and 4 qts. neine. To this mixture add a second of 1 gill high wines, 2 oc. compher, 2 oc. ing the result of a gradual deterioration of the seen, the contrary frequently stated. The Spanish brown, and 4 gill spirits of turpe

The application to be made to the sore, and it has never been known to fail.

CURE FOR FOOT ROT-Pare the foot well and scrape it thoroughly; then add to a wineglass full ofspirits of antimony, a piece of blue vitriol, the size of a walnut, dissolved in a little trine; rub this well on with a stick. If a sleep is very bad, and foot festering or gangrenous, take the yolk of two eggs, mix with one or two ozs. gum-turpentine, and stir them till they make a salve. Put on the salve after you have applied the first prescription, and tie it on with a rag or piece of leather.

Cone ror Werners Coming Down .- Wash them with milk and water before returning them; or boil 2 qts milk with a good deal of lard, and wash them often while putting up.

TO MAKE A SHEKP OWN A LAMB. over the lamb and under his tail, and rubit on well, then tie up the ewe head and body.

Another, Rub the liver, and light, and contents of the stomach of the dead lamb over the new lamb, and put the skin of the dead lamb to the adopted one.

CURE FOR STRETCHES .- Sheep sometimes stretch their noses on the ground and around by their side as if in severe pain. This is frequently occasioned by an involution of a part of the intestine within another, called, when occurring in the human subject, intersusceptio. Immediate relief is afforded, when the last is the cause, by lifting up the animal by the hind legs, and shaking them a few times, when the pain disappears.

BENEFITS OF SALT AS MANURE.

The following, in addition to its use, as recently ascertained, in preventing the disease in the potatoe, is a summary of the benefits to be derived from salt, applied to the soil :-

It attracts the humid vapors and repels frost. and thus assists in keeping the land moist in dry weather, and warm in cold. It keeps everything in the soil in a soft and soluble state, and ussists to digest and prepare the food for vegetable nutrition. It destroys many kinds of vermin and weeds, and usually increases the amount of the crop from one fourth to one third; strengthens the growth of everything to which it is applied, and brings all crops earlier to harvest. It generally a lds from 5 to 7 bushels per acre to the yield of wheat used in the most moderate quantity, and in all kinds of grain makesmore ear and less straw. Mr. George Sinclair obtained at Woburn, on plots of 36 square feet, at the rate of 70 to 95 bushels of wheat per acre, by the use of salt mixed with other manures. It is found equally beneficial to pasture as well as root crops, sweetening all vegetation, and making it more wholesome for man and beast. It is a great safeguard against blast, mildew, rust, and indeed all the diseases of grain and vegetables.

Salt is inoperative applied near the seashore, where salt water or spray is already in excess on the land; but everywhere else it is beneficial. It may be used at the rate of 5 to 40 bushels per acre, though 10 to 20 bushels is better. It can be sown broadcast on the land, or be incorporated in the manure or compost heap. Mr. Prideaux informs us that mixed with lime and its compounds it undergoes decomposition, producing sods on its combination with carbonic acid. or with humus; all more powerful digesters and feeders than the salt itself; and the muriate of lime, which has the strongest attraction for moisture of almost anything known. Salt and lime work vegetable matters to decay quicker than salt alone. With gypsum it will supply soda and sulphuric acid cheaper than any other material, besides the muriate of lime, so valuable for its moistening

Pansvirs.—Parsnips are preferred by hogs to all other roots, and make excellent pork. By them they can be fattened in six weeks. Too muck cannot be said in praise of beef and pork fattened on parsnips. A porker twenty-two menths old, weighing nett seven hundred and fifly pounds, never ate anything butraw parsaips and sour milk; and finor meat never was seen. In the use of parsnips they should never be washed, but be given as they are taken from the grannel. Used in this way they are found not to surfeit the hogs and cattle, and to fatten them much better and quicker. If washed they are apt to suitate, and as farmers say, will not thoroughly fatten them. They are good to fatten cattle, and if given freely to cowe, will much improve the quality and quantity of their milk.—[Prairie farmer.]

RADISTEE.—If you sow the regetable in la hick has been long cultivated cover careful ith two or three inches of the ong cultivated server car inches of Sue gravel. Su us, and a good specific fo

with two or three inches of fine gravel. Sale is a salutary application, and a good specific for the worm ovil.

Perfect Roy Panyanyan.—Mr. Craft of Wilkeshare. Pount, has issued a treating on points disease.—He contends that an excess of carbonia acid causes the disease, and that alkalies; has and potaid, are the fire per remedies for it.

Civil and Social Department.

CAPITAL PUNISHMENT.

There is no subject on the discussion of which we ever entered with so much diffidence as that of the abolition of the punishwhole civilized world. The advocates of abolition every day increase in numbers, but punishable with death as were a few years ago. The mitigation of the rigour of punishtorture, are regarded as a marked feature of the advanced civilization of the present age. In glancing at the criminal codes of different

punishment of the same crime. This variation may perhaps be excused on the ground that it accommodates itself to the different degrees of civilization found in different countries. But in the different States of the American Umon, where there cannot be a very wide difference in the status of civthzation, considerable inequality of punishment exists. In the old settled States of New England, manufactures, science, and the arts me in a more advanced state than in Iowa or Wisconsin. But in some of the oldest States we find that the punishment of death extends to the greatest number of craves. North Carolina is the most rigorous in its punishments of any State in the Umon. Horsestealing, slave-stealing, bigamy, arson, and circulating seditions publications among the slaves, in addition to the crimes of rape and murder, are all capital offences; as well as several other crimes of a secondary nature. Whether it be practicable to adopt the Mosnic South Carolina punishes horse-stealing and code of punishment, with perfect safety to forgery with death. Maryland places the the interests of society. The Mosaic dispenburning of Mills in the list of capital crimes. Georgiana attaches the punishment of death to the category of capital crimes. We need the circulation of insurrectionary papers; or commerate no other offence. It is clearly in other words, telling the slave that he is a slave; and in this respect Louisiana follows society to pieces, and almost putting an end her example. Tennessee and Olno confine to our species, adopt this code. But then if the punishment of death to the crime of murder; and Indiana to treason and murder. Delaware makes the crime of burglary a capital offence, and Rhode Island, Massachusetts, and New York, punish arson with death. The code of the United States, where no particular State is concerned, pumshes with death the following crimes: treason, murder, arson, rape on the seas, rubbing Mail (second tune,) forgery, paracy, robbery on the high sens, setting fire to slaps, and some others. The punishment of death in England is now confined to murder and rape, and we believe one or two statutory offences. There is something arbitrary, revoking and irrational in the strange contradictions in the criminal codes of the conscientiously observes it. Society is the different States of the American Union. not answerable for the belief of the Jew, and In one State, horse-stealing is a trifling offence, visited with a light punishment; in or non-observance of the Sabbath. Here others it is raised in atrocity to an equality then is a distinction between the crime of with murder. In some States the publication of truth is not only made a crime, but the effects upon Society; and moreover it is evihighest crime that can be committed, and is dent that there are cases—the case of the punished with death. When so much dif- Jew that we have instanced-in which we ference of opinion exists as to the crimes to have no right whatever to award any punishtuch; when the hangman is guided by no which exists between Sabbath-breaking and other rule than the caprice or prejudice of a the crime of murder, must not be mistaken. people, and when this caprice and these It is just this: society has a right to be prodifferent periods; it is not matter of surprise servance of the Sabbath, because it could not that the question of abolishing capital punish- do so without persecuting some of its memthe same country, allow it a range equal to its doing so. By the safety of Society we

caprice. If a short term of impresonment is the convicted murderer, and preventing him iton of people could be settled in Canada in one n just and proper punishment in Tennessee for the crime of horse-stealing, it is nothing | Society demands that we inflict on the culprit short of murder to liang a man for committing the same crime in North Carolina; and the crime of murder generally, and we have yet the judges, the juries, and the people of North Carolina persist in hanging the horsement of death. It is a subject, which at thief, and think they are fulfilling a duty in the present time engages the attention of the doing so. It is perfectly true that many parts of a criminal code which may be suited to a state of society in one country at one triumph has not, except in one or two instan- time, may be barbarously severe in another ces, crowned their efforts. We know of no country or age presenting a more researced country or State, with the single exception of state of civilization. But the punishment of the State of Michigan, where the punishment death can searcely accommodate itself to of death is not enforced. In most countries these varying circumstances. These crediess this punashment is now confined to one or of human life is too great to be trifled with. two cranes; in some it extends to several; Justice, strict unbending justice will place but in few countries are so many crimes some limit to the punishment of death. It is tic, and decide the question, without proof, right to hang a man for stealing a horse, or it either on one side or the other. We choose is not; and this right must be paramount to take a different course. If there be any ment, and the abolition of brutal modes of under all circumstances and in all cases. If positive evidence by which to decide the queswe reduce man to a level with the horse, and toon, it is not within our reach; and we never maist on taking a man's life for the value of a decide a great question without evidence. horse, we might produce a tolerable argu- We see no rational objection to trying the exnations, one is struck with the irregularity ment in favour of the practice of hanging the periment of abolition; as that is the only selfand the national caprice exhibited in the horse-thief: but not otherwise. Where way of settling the question. then shall we place the limit of death punishment? The limits assigned by the present! practice of different countries are merely ar- a comparison of Capital punishment in difand consistent, it follows that the practice of can discover: some countries must be wrong; and every error committed in the taking of human life is a judicial murder. Where then shall we fix the limit of death punishment so as to escape the consequences of so fatal an error? Shall we go to the Bible and take the Mosaic practice for our guide? If we are to take the Mosaic dispensation for our guide, a question may arise whether we ought also to adopt the mode of stoning to death pursued by the Jews under that dispensation.

Leaving this question to be discussed or settled by those whose leisure and inclination may lead them into it, let us see sation placed the violation of the Sabbath in impossible that we could, without reading we reject the code as a whole, why should we adopt a part of it? If we are bound to take one part, we are equally bound to take the whole; if we reject the whole we are not at liberty to take a part, without giving a sufficient reason for making the distinction. What sufficient reason, then, can we give? We may urge the interests of society. The consequences of breaking the Sabbath are inferior when compared with the consequences of the commission of murder. Society must be protected against the murderer: while it would be injustice to compel the Jew to observe the Sunday in the manner we do, because our Saturday is his Sabbath: and has no right to interfere with his observance murder and of Sabbath breaking in their which the punishment of death should at ment to the latter. But the distinction prejudices run in opposite directions in dif- tected against the murderer, while it have ferent countries, and in the same country at | in all cases, the right to punish the non-obment altogether should have arisen. Men bers. But because society has a right to be have not agreed to fix any definite limit to protected against the murderer, it does not the punishment of death. Different coun- follow that it has a right to take the life of tries, and as we have seen, different States in the murderer, unless its safety depend upon

committing more murders, but the safety of such punishment as will tend to discourage not a right to inflict any other. This is what the safety of Society demands. The question, then, is this: does the punishment of death afford greater security to society by more effectually deterring from the commission of murder than any other puishment Michigan is now testing it. One of the Swiss Cantons once tried a similar experiment, and the result, which we cannot state precisely, is said to have been favourable to abolition. Writers on this subject are generally dogum-

The following statistics, taken from a work written by Oscar King, of Sweden, exhibit

Cata discover:—	
	Inkabitants.
Spain, one execution yearly, in	125 100
Sweden, do do	172,000
Norway, from 1832 to 1834, inch	
one execution yearly, m	
Do from 1835 to 1837	
Ireland, one execution yearly, in	
England, do do do	250,000
France, do do do	447,000
Baden, do do	400,000
Do during the year 1831, only or	ie in 1230,600
Austria in Germany, one execution	year
lv, in.	810,000
Wartemberg, one execution yearly,	in 750,000
Pennsylvania, do do do	820,000
	2.000.000
Russia, do do do	1,7c0,000
Vermont, since 1814, none.	
Belgium, since 1830, none.	

OUR SURPLUS GRAIN.

Last year Canada received an addition of 25,000 persons to her population. Each of these would consume on an average, eight bushels of gram in the first year; the aggregate amount thus consumed would be 221,000 bushels. In addition to this we exported 534,747 bushels of wheat, 555,602 bbls, of flour, which, supposing each bbl, to contain five bushels, would be 3,332,757 bushels. The quantity consumed by emigrants and the amount exported would make 3,556,757 bushels of wheat over and above what was required to feed the population who were engaged in its production, and all others residing in the country. Every year our surplus products encrease with our population as will be seen by the following tabular statement of exports by sea from Montreal and Quebec during the last nine

	Flour.	ii heat.	Vals.	Pcas.
	Barrels.	Barrels.	Bushels.	Bushels.
1833	59,204	•••••		1,415
18:19	43.427	3,336		2.555
1840	315.612	142,059	•••••	59,876
1341	356.210	562.562		123,574
1542	234,793	201,107	5,663	78,985
	209,957	144 133	3 651	83,315
	415.467	232.133	-24.574	130,355
	412,225	396,252	53,530	220,912
	555,602	534,747	46,060	216,339
_	_			

If our surplus products increase at this ratio and if we did not export a single kernel of grain, re should then be able to feed about five hundred thousand emigrants. Otherwise, it is a most lamentable fallacy into which some have fallen who assert that we are prepared to receive an addition of half a million to our population in one are able to pay for it, not merely in labour, for so large an amount of labour could not be absorbed, but in money, which we must have if the grain be consumed in the country, to pay for our imports.

We could probably absorb 40,000 sunigrants bringing nothing but their labour amongst our settled population. But if a much greater number than this come in one year, not only would the proper relation of labour and capital be disturbed, but the difficulty would be enhanced by the fact that the imported labour would be of a kind not adapted to the country; the lebourer would have to undergo an apprenticeship. It is their prejudices, their convictions or their mean not merely the necessity of restraining unterly impossible that any thing like half a mil- our next.

year, without the hazard of their suffering evils which would be severely fult by the whole population.

The London Chronicle states that Ireland alone will pour probably 330,000 of her population upon the shores of America during the present year, and that of this number one-fourth will come to Canada. The question which then arises is a very simple one: shall we have in the country provisions to feed 75,000 emigrants ? We know not how much grain may be stored by merchants would? And this question, it appears to us, for shipment; but we are decidedly of opinion experience alone can decide. The State of that the farmers of the country have very little more than will be required to supply their own wants until next harvest. It is quite time that we should look to the position in which we may soon be placed; and take such steps as will prevent the probability of the famine being transferred to our shores; as it will be if, at the time when we receive an addition of 75,000 to our population, we shall have emptied our graneries into the markets of Europe.

POST OFFICE REGULATIONS.

We have to complain of somebody, we should like to know who, for the non-transmission of our papers as they are directed. We have six subscribers at the village of Bronte, to each of whom we sent a copy of our last number, separately folded and directed, and the whole six done up in one wrapbitrary; the practice of one country contraferent countries, but they prove nothing for One of these subscribers writes us :-- Your last number has not been received here by any of the subscribers except myself." Now, what is the reason of this! The package must have been broken open by some one, and the papers taken out, for if the direction had been mistaken, our correspondent would not have received his-it would have gone with the rest. We do not know whether our cotemporaries have occasion to complain of the same evil; perhaps it is because we are just entering the field, that the Post Office people take such liberties with us. We shall feel obliged to our subscribers in letting us know whenever there is any irregularity in the receipt of their papers, and we shall endeavour to ferret out the cause of it. Our list is not yet so large (we are sorry to say) that we need have any difficulty in sending a copy of our paper to each subscriber as soon as it is issued. The fault lies in the carelessness or misconduct of those connected with the Post Office. A subscriber at Bradford writes that he has only received one number. Now, it is utterly impossible that the mistake could have occurred with us, for his name is upon our list, and we recollect distinctly writing it each time of issue.

> We sincerely hope that at the next meeting of Parliament, our Legislators will do something besides call each other names, and that they will establish a more vigorous, more complete, and more vigilant system in our Post Office. With regard to the indifference that has been shown to the wants of the people under the present system, we may adduce another instance in the case of the village we have mentioned. Our correspondent goes on

"We have been shamefully used in this place with regard to a Post Office; we have een petitioning and writing to the Post Office Department for the last two years, and ur-ing in every reasonable way the establish-ment of a Post Office in this place; our petitions have been signed by the most influential and respectable men we have, unanimously, but all to no effect, as we have been put off by the most trifling excuses. That this place is deserving of such an establishment m ly be supposed from the fact, that about four addition of half a million to our population in one mouths ago, despairing of getting a Post year. We must either export this surplus, or if it Office, we established an independent one, be consumed by emigrants, they must be such as and have since had our communications brought from the nearest Post Office This of course costs something, weekiy. which added to tremendous rates of postage, makes our postage expenses rather a heavy item."

> INNIGRATION.—A Society has hes been formed in this city, under the suspices of H. J. Benlien, E.q., called the Emigrant Settlement Society, whose chieff is to render assistance to, and find Esq., Called the Emigrant Settlement Society, whose object is to render amistance to, and find employment for emigrants on their arrival. We doubt the ability of the Society to commond resources sufficient to ensure complete success without the assistance of the Legislature and the cooperation of the benevolent in other places. We shall enter into a comideration of this subject in

(From the H lifes enordian.) RETROSPICTION.

RETROSPIC PION.

In vonth I looked back to my car dinoid; sweet hours, and to ought or the dear hour, at gardens, and flow'rs,—be point where I dabbled—the gade where I swang—se of capple tree—with one i temp from hind hand—freed of the mitter ware green, he mutgrove, with the sumer of sky glowing between, and time look the smartined not clusters too! step like a farty b—che ert formig and wild—ct gentle, as ever he for gid to a child,—come of rich out is winder obstailly flugging merry heart's hagder wherever it rung! at, also I had seen mate west blowed decay, he crosedusts of health from the check fade away, are yet grow thin-derigated infences, then there, and it waken'd no more from tout decayless repuse! at their kass sad lea'd, my hife second decrease; and in waken'd no more from that decauless repuse!

on in inhood came on, with its sorrows and enres,
friendships, its lovings, its hopes in I despairs,
i I wish'd for my sister again at my side,
j secule with her love, with her counsel to guide;
at I monta'd that the sweetest the somest should fade,
at its hallow'd hoore still in the Past my heart made!

And its hallow'd from a till in the l'ast my heart made!
But a light dawn'd upon me! that smile, love of thine,
Would have went from its grief a heart sadder than mine;
O'r bleat he the true heart thoug giver to me!
The house which thou brightness a paradise seems,
And my forcy-lint is no longer in dreams!
My candition in neithout my sweet wite, and my home,
I could find no such treasures where'er I should roam!
And do I took back to the Past with a sixh!
Yes soo it on a a tear dog, whist ir ta mine eve,
When I think of the true-hearted long good to rest,
How they would report could they see me so blest.
I bellow the past, long my childhood a home yet.

I hallow the post, love my Childhood whome yet, An I the heautiful dead I evo in weer for get;— Now, my hourt looks for joy in bright hours to co But hade in the hear.—I Present de Aone? ra to come.

DOR A.

Literary Department.

THE BAY OF SAN FRANCISCO.

description of the finest harbour in the Western World, as well for the value of the information it from their known character, to say that the Yanaffords as for the special interest which (in consequenco of the Mexican War) at this moment attaches to that part of the World. The American modesty displayed in the latter part of the article we can overlook, and we have no d ubt our readers will be equally indulgent to the foible of National vanity.

The Bay of San Francisco is the glory of the western world. Its mouth lies in latitude 37 degrees 53 minutes. The water on the bar is eight fathoms at low tide. The mountains on either hand rise several hundred het above the sea, and form fine land-marks in foggy weather to point out the bar, and the channel into the harbor .-The capes at the ocean's edge are about two miles apart; always verdant and o freshing to the eye: and, as you go up the passage the little streams tumbling from the rocks among the greenwood, and the wild game standing out on the chils or frolicking among the brush, and the seal barking on the water, give promise of pleasure and rest from the toils of the sea.

This passage is about five miles in length. Four and a half miles from the capes it narrows considerably, and presents a hold point north and On the southern one stands the Presido or fort, on which this mighty harbor condescends to depend for protection. The fort is in ruins — A dozen old rusty guns in the care of thirty or torty half-clad half-bred soldiers, usually foraging in squads of five or ten among the neighboring Missions; one side of its walls tumbled down, and another strongly disposed to plunge into the sea. and not the tenth of a true soldier's heart beating for a hundred miles around, is a true summing of its present strength.

The house of the commandant, situated in one corner, is a respectable whitewashed pile of mud and bricks. On the other corner of the same side is the chapel, also built of mud; a filthy place for worship. On another side are artificers' shops and a prison. The two other sides are broken down, not by the flying metal of brave conflict, but by the gentle pattering of the rains; the ruins covered with bones' not the bones of fearless men, who have fallen in the breach, throwing their gushing blood in the face of a conquering foe; but the bones of beeves that have been guawed by the garrison during the years of valorous eating. Densely manued, also, are these piles of adebie and esseous ruins, not with rank and file of mailled warriors, but with dogs, vul-tures, and juckals. This is Fort San Francisco, strongest posts in the Californias. oue of the Heaven help its dogs, vultures, and jackals, in case of a seign!

Six miles from the capes at the mouth, and at the point where it begins to open into the Bay, are two small islands on which forts might be conveniently built, that would command the narrows, and also the entrance into both the north and south parts of the bay. Indeed, the whole bay is so studded with islands easily fortified, and so overhang by headlands, which of themselves

parative security. From the narrows to the north part of the Bay is twenty four miles, and to the couth-eastern point thirty-five unles.

The southern half of the Bay varies from fourteen to fifteen, the northern half from four to twenty miles in width. In overy part of this large tract of water is good holding ground, and on all its shores are coves in which vessels of any tonnage may be snug and secure from storms within a cable's length of the land. In the NW. corner of the Bay is the inlet of the Rio Sacramento. It is about one and three fourth indes wide for the distance of seven indes, and then spreads out into a bay seven index wide, and twelve in length, when it narrows down to four unles for the distance of two unles and a half, then widens to seven or eight indes to the distance of cleven unles, with islands in the centre, then narrows to four inles for the distance of three miles, and then it widens into a bay about twenty indes north and south, and about the same distance east and west, studded with nine islands. On the east of it between the mouth of the Sacramento and the Bay, hes one about fifteen miles in length, NE, and SW., and of a breadth varying from three miles to ten. All these islands are low and marshy. On the southern part of this large island comes in the Rio San Joaquim, and on the northern point of it is the northern mouth of the Sa-

On the south side of the promonotory on which tands the fort, Castillo de San Francisco, is a little village celled Yerba Bueno. As the barbor in which foreign vessels refit and purchase sup-We publish the following clear and striking plies, hes in front of Yerba Bueno, it will scarcely be imparting any fact not legitimately inferable kees have built and inhabited this town. These descendants of the kings and nobles of the old Saxon Heptarchy, knighted and enobled anew by the physical and mental conquests over the wilderness of America and over the oppressions of their Norman conquerors, the reigning families and nobles of Great Britain have built up an empire of mind on which the sun never sets. Bay of San Francisco is Yerba Bueno. In the Sandwich Islands a nation is spoken into being .-The Chinese seas are burdened with its ships. On the coast of Africa the emancipated slave unturk the banner of Freedom over the fortunes of an independent national existence, and almost the enthe habitable parts of this great continent are enpaying the impulses to human Freedom which the American Saxons sent out to the race on the Fouth of July, 1776. These Yankees at Yerba fluencemployed themselves in their characteristic business of doing everything.

> The surpassing beauty and magnificance of this harbor of San Fracisco can never be properly estimated by being viewed from the land. must approach it from the sea; have a full view of the lufty shores north and south, rising at intervals into lofty peaks girded at their bases with primeval forests of evergreen cedars and pines mottled with the houghs of the oak, the ash, and the plane. The har which springs from the northern headlands of its entrance, and, running beneath the blue waters of the Pacific from five to nine fathoms, causing a belt of surf to roll across the mouth, must be pased. A breeze must bear your bark over and along the dangerous rocks three quarters of a mile mside on the right, quarrelling with the surges; and onward four unles between the projecting cliffs, overhanging peaks and verdant woodlands illed with starting deer and other game, to the harbor at the narrows beneath the fort; and thence onward till past the fort and the islands lying across the entrance; and Bay is seen! a broad dieet of water stretching off, north and south, the largest and best harbor of the earth, surrounded hy a country, partly wooded, and partly disposed in open glades and prairies of the richest kind, covered with the flocks and herds of the Missions. and deer, and elk, and bears. And amid the beautiful hills of the south and east are Sama Clara, El Pueblo San Jose, and Mission San Jose; and on the southern peninsula, five miles miles wide, is San Francisco, Yerba Bueno, the trading-house of the Hudson Bay Fur Company, the Presido and the Castillo; on the northern penneula is San Rafael, and in the north San Francisco Solano; a group of beauty and grandeur, that knows no superior in any clime.

WHITE AND BROWN BREAD.

Several years ago, we threw out the surmise, that the separation of the white from the brown parts of wheat grain was likely to be baneful to sealth. We proceeded upon theoretical grounds believing that providence must have contemplated our using the entire grain, and not a portion so overhung by headlands, which of themselves only, selected by means of a nicely arranged man. Capthin Dexter what was the cause of the sick-are fortresses, that a party in possession of them chinery. It struck ne forcibly, that to go on for a new of his men? He replied "The bread was could hold the Bay against vast odds, and in com- long course of years, thus using a kind of food too good."—[Chambers' Edinburgh Journal.

different from what nature designed, could not fail to be attended with bad consequences. We nave since learned that our views have some reagnized support in science. The following par-

aph from a recent pamphlot will at once serve keep the subject alive in the minds of our readers, and explain the actual grounds on which the separation of flour is detrimental. "The general belief," says the writer, "is, that bread made with the finest flour is the best, and that whiteness is the proof of its quality; but both these opinions are popular errors. The whiteness may be, and generally is, communicated by alum, to the injury of the consumer; and it is known by men of science that the bread of unrefined flour will enstain life, while that made with the refined will not. Keep a man on brown brend and water, and he will live and enjoy good health; give him white bread and water only, and he will sicken and die. The meal of which the first is made contains all the ingred ents necessary to the composition of nourishment to the various structures composing our bodies. Some of the ingredients are removed by the indier, in his efforts to please the public; so that fine flour, instead of being better than meal, is the least nourising and to make the case worse, it is also the most difficult of digestion The loss is, therefore, in all respects, a waste; and it seems desirable that the wimirers of white bread, but especially the poor, should be acquainted with these truths, and brought to enquire whether they do not parchase at too dear a rate, the provides of including in the use of it. The unwise preference given so universally to white bread, leads to the pernicious practice of mixing alum with the flour, and this again to all sorts of adulterations and impositions; for it enables batters who are so posed, by adding more and more alum, to make read made from the flour of an inferior grain look like the best or more costly, and to dispose of it accordingly; at once defrauding the purchaser and tampering with his health. Among the matters removed by the miller are the large saline substances, which are indispensible to the growth of the bones and teeth, and are required, although in a less degree, for daily repair. Brown bread should therefore be given to nurses, and to the young or the growing, and should be preferred by all, of whatever age, whose bones show a tendency to bend, or who have weak teeth. It is believed that brown bread will generally be found the best by all persons having sluggish bowels and stomachs, equal to the digestion of the bran-But with some it will disagree; for it is too ex citing to irritate bowels, and is dissolved with difficulty in some stomachs. When this happens, the bran should be removed, either wholly or in part; and by such means the bread may be adapted, with the greatest case, to all habits and all constitutions."

Mr. Smith, in his late remarkable work on fruits and farmacia as the food of man, gives some illustrations of this doctrine. "Bulk," he says, "is nearly as necessary to the articles of diet as the nutrient principle. They should be so managed that one should be in proportion to the other. Too highly nutritive is probably as fatal to the prolongation of life and health, as that which conains an insufficient quantity of nourishment." is a matter of common remark among old whale men, that, during the long voyages, the coarser their bread, the better their health. "I have followed the seas for thirty-five years," said an inteligent sea-captain to Mr. Graham, "and I have been in almost every part of the globe; I have always found that the coarsest pilot-bread which contains a considerable quantity of bran, is decid-odly the best for any men." "I am convinced, odly the best for any men." from my own experience," says another captain, that bread made of the unboked wheat mell is far more wholesome than that made from the best superfine flour the latter always tending to produce constinution."

Captain Dexter of the ship Isis, belonging to Providence, arrived from China, in December, 1804. He has been about one hundred and ninety days on the passage. The sen-bread, which constituted the principal article of food for his men, was made of the best superfine flour. He had not been long at sea before his men began to complain of langour, loss of appetite and debility. These difficulties continued to mercase the whole and reveral of the hands died on the passage of debility and inanition. The ship was obliged to come to anchor thirty miles below Providence; and such was the debility of the men on board, that they were not able to get the ship under weigh again, and the owners were under ity of sending men down from Provithe neces dence. When she arrived the owners asked Captain Dexter what was the cause of the sick-

QUANTITY OF FOOD CONSUMED BY A MAN.

The difference between eight ounces and a half of boiled meat and ten onnes appears very trivi al;) at if the greater of the two quantities be persevered in regularly every day for the term of a man's adult life of light a century, it may excite a little surprise in the person who practices it to learn that he will have consumed a flock of sheep. consisting of about fifty-three head, in excess above what he ought to have made use of. In a life of sixty-five years, allowing eight ounces and a half per day for lifty years, two-thirds of that quantity for ten years, and three ounces a day for three years of childhood, the total animal food amounts to 350 sheep. If to this be added the excess above mentioned, the number of sheep the cooked meat of which is devoured by one man during a life of sixty-five years, is about 409; along with five tons of potatoes, about the same of turnips or other vegetable, nine tons weight of common drink, and six tons weight of wine, at one pint per day for 30 years only; thus for dinner alone about thirty tons weight of solids and liquids must have passed through the stomach. Inordinate work will wear out any machinery before its time, especially if the work performed be of a peculiarly wearing character. Whether it is advisable to add the Ilfry-three unnecessary slicep to one's dinner, is a question which every reader will answer to himself as he thinks proper. The food of old Parr, who died at 153 years of age, consisted of cheese, coarse bread, nulk, and small beer. Would it have made no difference in the duration of his life if he had swallowed 1050 sleep, for about this number would have been his share at the usual rate, along with his wenty tons of wine ! It may assist in drawing a conclusion, to recollect that when he was brought to London, and lived in splendour, " fed high, and drank plentiful of the best wines," he soon died; and his death was generally attributed to that cause, for he had vigour of body " to have lived a while longer," as the reporter says.-Donovan's Domestic Economy.

INFLUENCE OF WAR.

Dr. Channing, in a discourse before a convenion of Congregational Ministers, in Massachuetts, in 1916, used the following language in relation to the devastating influences attendant upon war:-

"The influence of war on the community at large, on its prosperity, its morals, and its politi cal mstitutions, though less striking than on the soldiery, is yet most baleful. How often is a community impoverished to sustain a war in which it has no interest. Public burdens are aggravated, whilst the means of sustaining them are educed. Internal improvements are neglected. The revenue of the state is exhaused in military establishments, or flows through secret channels into the collers of corrupt men whom war exalts to power and office. The regular employments of peace are disturbed. Industry, in many of its branches, is suspended. The laborer, ground with want, and driven to despair by the clamour of his suffering family, becomes a soldier in a cause which he condemns, and thus the country is drained of its most effective population. The neonle are stripped and reduced, whilst authors of war retrench not a comfort, and often fatten on the spoils and woe of their country.

But the influence of war on the morals of so iety is still more fatal. The saspension of industry, and the pressure of want multiply vice. Criminal modes of subsistance are the resource of the suffering. Public and private credit are shaken. Distrust and fear takes the place of mutual confidence. Commerce becomes a system of stratagem and collusion; and the principles of jusuce receive a shock which many years in peace not able to repair.

Wasting Effects of Yeast in Bread-ma-ning.—We quote the following paragraph from the Economist newspaper, for no practical sugges-tion for economizing the national stock of food at this afflicting crisis should be overlooked:—"It is a positive fact that throughout Great Britain and freland a quantity of flour-sufficient for the supply of many thourands is every day destroyed, dissi-pated, and lost atterly to human use. This is the mevitable result of using yeast in the composition of bread. A portion of flour becomes decomposed in the process of fermentation; and passes off into the atmosphere in the slaspe of carbonic acid gas. As it escapes it puffs up the tenacious dough, and makes it spongy and light. This is the only and for which yeast is employed in bread-making; but the same object can be effected quite as well by other chemical processes, which do not escaled any loss of substance to the flour. Dr. Bundes Thompson has accuratined, by experiments on a large scale, that in a seck of flour there in a differ-ence in favour of bread made without yeast to the amount of thirty pounds thirteen enness; or, in round numbers, a seck of flour would produce

107 loaves of unfermented bread, and only 100 In ives of fermented bread of the same weight. Hence it appears, that in the sack of flour by the common process of baking, seven loaves or six and a half per cent, of the flour are driven into the arr and lost,"—Nonconformist.

Reserva Sovenesers .- Of fifty-two sovereigns regning in Europe, two have reached their 70th vear—the King of Hanover, the oldest sovereign in Europe, and the King of the French. Of the other sovereigns, thirteen are between 60 and 70 years of age, fourteen from 50 to 60, eleven from 40 to 50, eight from 20 to 30, and two have not 40 to 50, eight from 20 to 30, and two have not reached their 20 year, namely, the Queen of Spain, who is 16 years 3 months, and the Prince of Waldeck, who is not yet 16. Of all the sovereigns, the Prince of Schaumbourg-Lappe has reigned the longest time, if his amounty is counted. He has reigned for nearly 60 years. Two have reigned more than 40 years, equally counting their immority; four for from 30 to 40 years; the fifteen other sovereigns, of whom three accorded the throne during 1845, have not regard ascended the throne during 1815, have not reigned more than 10 years.

MARING CANDLES .- Many farmers are accus-MARING CANDERS.—Many farmers are accused tomed to make up their supply of candles for the year about this time; and the common mode is to make them by dipping. The New York Farmer and Mechanic gives the following these for doing this, which are declared to be a given improvement upon the common method. It is common, with triskilled persons, in making candles, to heat the tallow beding hot, and to dip the weeks into it very rapidly; the consequence is, that the tallow runs down the candle, leaving the top of it very small. down the candle, leaving the top of it very small, sea, by the lash of the waves through valved tubes and the bottom with an immense butt, which is into reservoirs on a high level, for the acquisition, farther formed into a bell shape by the dripping from it. The rule given is that the tallow should not be so hot but that a floger may be dapted into the turned to any requisite purpose. The int with at inconvenience, and the dipping should eventor proposes to test the practibility of the principle. be done in a very deliberate manner, particularly cuple on Sou hsea Beach.—[Builder, the lifting out, which should occupy no any a manner cach time. The tallow will thus be taken on not cach time. The tallow will thus be taken on not considered and voil cool at once, without any run ming down, and the candle will be of even size.

A New Design crive —The New Sin understands from a gentleman. and without the batt, which is to be cut away be-

Gen Ananic -In Morocco, about the middle Gest Aranic —In Morocco, about the middle of November, that is after the rany serson which begins early in July, a gummy pince exhads sport two only from the trink and principal brain hes of the acaca tree. In about filteen days it if it is east in the furrow, down which it rans, either in a vermicular or worm shape, or more commonly assuming the form of round and oval tears, about the size of a pigeon's egg, of different colours, as they belong to the wine or red gum tree. About the middle of December, the Moors encamp on the border of the forest, and the harvest lasts six by the destination of the difference of all the presence of the forest and presence of all the presence of all the presence of the forest and the presence of all the presence of the forest and presence of all the presence of the forest and presence of the forest and presence of the forest and presence of all the presence of the forest and presence of all the presence of the forest and presence of all the presence of all the presence of all the presence of the forest and presence of all the presence o the border of the forest, and the harvest lasts six weeks. The goin is packed in very large sacks of tunned leather, and brought on the backs of of timed leather, and brought on the backs of bullocks and camers to certain ports, where it is sold to the French and English merchants. The gain is lighly nutricious. During the whole time of the harvest, of the journey, and of the fair, the Moors of the desert live almost entirely upon it; and experience has proved that six ounces of gain is not for the research and the provention of the same for the research. is sufficient for the support of a man during twenty-four hours.-[New York Mechanic.

A Snowen or Needers - A Canadian roya our from Lake Superior, relates a remark ide gent from Lake Superior, relates a remark de-instance of the power of magnetism. It is known had in the copper country, and particularly on a Middle Island, the attractive power of the load-stone, abounding in that region, exercises a won-derful influence upon small particles of iron and steel. A mariner's compass becomes almost uses a less, and the magnetic needle points vertically. Upon one occasion the voyageur declares he had his penknife and packing needle attracted out of his pecket; and on one mig a small paner of finer. his pocket; and on opening a small paper of finer needles, they actually flew out of his hands in a shower, alighting on a load-stone rock, sometwen-ty feet distant. It was an incident of this charac-ter which led to the discovery of the vast quantities of loadstone in that region.—[Roch Republican.

LUNAR INFLUENCE.-Dubamel cut a creat many trees in all ages of the moon, but under other circumstances precisely similar; but in all his experiments discovered no dul' rence in the timber. Chauvalon, at Martinique, tried accurate experiments on many kinds of vegetable in the same way, planted at different times in the lunar month, but discovered no appreciable difference.-[Albany Cultivator.

A STORY WITH A MORAL.

When Charles the Second chartered the Royal Society, it is narrated of him that he was disposed to give the philosophers a royal, but at the same time a wholosome lecture. "Why is it, my lords and gentlemen," said he, "that if you fill a vessel with water to the very brim, so that it will not hold a single drop more, yet, putting a turbet into the water, it shall not overflow the vessel?" Many were the sage conjectures—that the fish would drink as much water as compensated for condensed to that amount -that the air-bladder had something to do with the phenomena-and a hundred others, which were propounded and abandoned in their turn, much to the amusement of the "merry monarch." At length Mr. Wren (afterwards Sir Christopher) modestly asked, "But is your Majesty sure that such would be the case?" "Aye, there," exclaimed his Majesty, laughing, "you have it; always, gentlemen, find out whether the thing be true before you proceed to account for it; then I shall not be ashamed of the charter I have just given yov."

Scientific.

SURGICAL OPERATIONS WITHOUT PAIN

The proof of the value of the recent discovery for producing temporary insensibility to the effect of pain, is daily increasing and coming mearer to We have not yet heard of any instances of success in this City, though we understand some attempts have been made to administer the Ether. The following is from the Cohourg Star :-

On Tuesday last we saw George Goldstone, Esquire, Surgeon, of this Town, administer Ether to a patient previous to performing a very painful operation. The udalation was only for a minute, operation. when the patient became unconscious of pain, and the operation was performed without drawing trom her now signs of feeling. We understand that Mr. Goldstone has administered the ether in many cases, and has not yet met with a single failure in rendering the patient inconscious of pain. In the simple matter of tooth drawing alone it is invaluable.

WATER RAISED BY WAYES THROUGH VALARD Tunes $-\Lambda$ feasible and obvious application of Harvey's grand discovery of the use of valves in raising blood through the veins, has just been suggested by a correspondent of the Mechanic's Magazine, namely, the raising of water from the

A New Destin crive -The New York True Sun understands from a gentleman, who has re-cently remined from Washington, that the government has just concluded a negotiation for the prirchase of a most formulable weapon of destrucperiod to experiments in the presence of all the distinguished military and naval officers, it was approved of and purchased for \$2,000. A com-pany of artillerists are to be drilled expressly to the use of this we mon, and despatched to the seat of war forthwith.

THE SUBMARINE LIFTER.

A machine of this name has recently been inthe spons from the grasp of old Neptine. It is a contrivance by which the "villamons salt-petre," and other combustibles from which gas s generated by ignition, are employed in raising from the deep wrecks, anchors, merchandise rocks, snags, and other ponderous hodies. It consists of a large vessel containing the materials for producing the gas and the means of igniting them. When the engine is prepared for a descent, it is let down, filled with water, to the desired place, and attached to the weight to be raised. The cord connected with the fire lock within and extended to the surface of the water is then pulled, the gas is formed in-mediately and forces the water out through an injecture in the bottom of the vessel. The gas then life with a force of more than sixty pounds to the cubic foot.

The immense power of an accumulation of these engines, the symplicity and cheapness of their construction, and the little labour and difme apparatus of every harbour in the world.—[Worchester (Mass.) Spy.

Snow Plough.—There has been a good deal said respecting the difficulty which would be encountered in travelling on railways in the Colomes in the winter months, from the heavy falls of snow. in the winter month, from the neavy lails of sirbw. It will be seen by the following extract copied from a late N Y paper, that an ingenious machine has been made in the United States, which will remove all apprehensions on that subject:—"The Temove an apprenensis on massinger:—"InBiltimore and Ohio Radroad have an engine of
25 tons, which takes a train of empty cars up the
Maryland Mining Company's road to Frotsburg,
miles from Cumberland County (hiving an recent of 130 feet per mile, the steepest railroad in the country.) and brings down a train of coal. On the 20th Dec. there was a fall of snow two On the 20th Dec. there was a fall of snow two so uttered, as to counteract entirely its intended we must take the world as it is, mixed up with a feet deep on a level, and much drifted; their heavy effect; or the parent may use language, in the thousand spots of sinishine—a cloud here and t showing triumphantly the capacity of railroads for winter service."

REVALUABLE PHENOMENA.—Last evening a very extraordinary state of electricity existing the atmosphere. A driving snow storm prevailed, during which there were loud thunder-claps and frequent sharp flashos of lightning. About 7 o'clock a flash and report similar to that of a pixel occurred in the telegraph office,—the instrument was a frontier unprevailed. ment was of course moperative, and we received communication .- [Rochester American. no comi March 3.

Unwards of 200,000 pounds of very rich copper ore has been raised from a recently discovered mine in Wisconsin.

For the Ladies.

STANZAS.

Oh! tell me not—I cannot bear To think this world a world of care; So bright, so beautiful, and for— Some sunny spots are surely there!

Let others speak with bitterness, And call it but a wilderness A desert's lone and dreariness, And all within it weariness;

Be mine to call the fairest flowers l'hat blossom in this land of ours,-When weary, rest in fragrant bowers, And pass away life's leisure hours!

And still with pleasure love to blend, Oh! let me find on earth a friend. With whom my happy days to spend, Till life uself with all things end!

Then chilling blasts in vain may blow, Defended from the cold and snow. This bosom shall with transport glow, Responsive to the claims of wor!

Then tell me not—I cannot bear To think this world a world of care; So bright, so beautiful, and fair—

earth and atmosphere whence we draw the breath of life is impregnated with death—health is unide to operate its own destruction! The food that nourishes contains the elements of decay; the soul that animates it by a vivifying fire tends to bush along our paths. Notwithstanding this is the pleading against their consciences. After dinner bush along our paths. Notwithstanding this is the 'a young counsel and some severe things about truth, so palpably confirmed by the duly examples the clergy, and did not doubt, were the devil to before our eyes, how little do we lay it to the heart! we see our friends and neighbours perish- sermon. ing among us, but how soldow does it occur to our thoughts that our knell shall perhaps, give the next fruitless warning to the world?

WIVES OF WORKING MEN.

Speaking of the middle ranks of life, a good writer observes-there we behold a woman in all not a pupper to be dandled by fops, an idol of profsue adoration, reverenced to day, docarded to-morrow; admitted, but not respected; desired, but not estecued; ruling by passon, not age. her glory; not a doll to carry silks and jewels but not esteemed; ruling by passion, not affection; impacting her weakness, not her constancy to the sex which she should exalt, the source and mirror of vanity; we see her as a wife, partaking the cares, and guiding the labours of her husband, and by her domestic diligence spreading cheerfulness around her; for his sake sharing the decent refinements of the world without being vain of them; placing all her joy, all her happiness in the merited approbation of the man she loves As a mother, we find her the affectionate, the ardent instructress of the children she has tended ficulty attending their operation, must, it would from their infancy; training them up to thought seem, make them an invaluable item in the mar- and virtue, to meditation and benevolence, adand virtue, to meditation and benevolence, addressing them as rational beings, and preparing them to become men and women in their turn.— Mechanic's daughters make the best wives in the world.

HOW TO SPEAK TO CHILDREN.

It is usual to attempt the management of chil dren either by corporal punishment, or by rewards addressed to the senses, and by words alone. There is one other means of government, the power and importance of which are seldom regarded-I refer to the human voice. A blow may be inflicted on a child, accompanied with words so uttered, as to counteract entirely its intended influence. Let any one endeavour to recall the image of a fond mother, long since at rest in heaven. Her sweet smile and ever clear conntenance are brought vividly to recollection; so also is her voice; and blessed is that parent who is endowed with a pleasing utterance. What is it which fulls the infant to repose? It is not an array of mere words. There is no charm, to the untaught one, in letters, syllables, and sentences. It is the sound which strikes its little ear, that soothes, and composes it to sleep. A few notes, however unskilfully arranged, if uttered in a soft tone, are found to possess a magic influence. etrable by water for ever.

Think we that this influence is confined to the cradle l. No; it is diffused over every age, and ceases not while the child is under the parental roof. Is the boy growing rade in manner, and boisterous in speech? I know of no instrument so sure to control these tendencies, as the gentle tone of a mother. She who speaks to her son barshly, does but give his conduct the sanction of her own example. She pours od on the already raging flame. In the pressure of duty, we are hable to utter ourselves hastily to children. Perhaps a threat is expressed in a loud and irresting tone; instead of allaying the passion of the child, it serves directly to increase them. Every fretful expression awakens in him the same spirit which produced it. So does a pleasant voice call up agreeable feelings. Whatever disposition, therefore, we would encourage in a child, the same we should manifest in the tone which we

Scraps.

To think this world a world of care;
So bright, so beautiful, and fair—
Some gentle hearts are surely there!

Etles T—

A BEAUTIFUL FIGURE.

Life is beautifully compared to a fountain fed by a thousand streams that perish if one be dried. It is a silver cord twisted with a thousand strings that part asunder if one be broken. Fruil and thoughtless mortals are surrounded by immerable dangers, which make it much more strange that they escape so long, than that they almost perish suddenly at last. We are encompassed with accidents every day to crush the mouldering tenements that we mhabit. The seeds of disease are planted in our constitutions by nature. The carth and atmixable part as well are the facility of Philadelphan, received the following valentine at they for Philadelphan, received the following valentine that they all points and become highly maginative:— You were that you see the hady of Lyons, and become highly maginative:— You were that you wership you are rethered. You would spurn me of you knew me, but you wership you are rethered. You would spurn me of you knew me, but you were rethered. You would spurn

"I resolve" says Bishop Beveridge, "never to speak of a man's virtues before his face, or of his faults behind his back:"—a golden rule, the observance of which would at once banish flattery and detamation from the earth.

Swift preached an assize sermon, and in the it was severe against the lawyers for die, a parson might be found to preach his funeral sermon. "Yes," says Swalt, "I would, and would give the devil his due, as I did his children this morning.

"Mrs. Squigs, how's your husband this after-noon!" "Well, the doctor says as how as if he lives till mornin' he shall have some hopes of him; but if he don't live till mornin', he shant have no

Request -An habitual drunkard, having found in a dream a cup of excellent wine, set about warming it to enjoy it with more gusto. But just

A western stump orator, recommending himself to his constituents, said—"If I am elected to this office I will correct all abuses, purge out all corruption, and go through the elemies of our party like a rat through a new cheese."

"A Genoese lady was questioning one of Tus-my on the number of her lovers. "Just at precany on the number of her lovers. sent (rophed the fair Tuscan) I have but one!'—
But one! (ejaculated the other.) what solitude?
what ennui! Why, it is just like a husband!"

A cranlogist once remarked that neither the cat nor the horse developed the organ of music. "Very strange," replied a hearer, "since we make music of the gut of one and the tail of the other."

"Jake," said an old farmer to one of his mowers. "do you know how many horns there are in a dilemma?" "No," replied Jake. "but I know how man horns there are in a quart of whiskey."

A Tought Jon rok a Pontrait Pairtrak.—
"Represent me," said a gentleman to his artist,
"with a book in my hand, and reading aloud.
Paint my servant, also, in one corner, where he cannot be seen, but in such a manner that he may hear me when I call him."

Wood you Corries.—Old maids should be buried in crab tree; old bachelors, in elder tree; married people, in pear tree; chronologists, in date tree; bricklayers and plasterers, in lime tree; puglists, in box wood; schoolmasters, in birch; cowards, in trembling aspen; and the honest tar, in stordy oak.

THE WORLD.-If we would enjoy ourselves,

A dentist was lately making a speech in one of the interior countries. "What do you ask for pulling a tooth, doctor?" exclaimed a fellow in the crowd. "I will pull yourteeth for a shilling, and your note for half the money," replied the speaker.

"What do you suppose the world thinks of us?" w nat or you suppose the world thinks of us?"
inquired a pedantic young gentleman of Dr.
Johnson. "Why, I suppose," said the doctor,
"that they think me a buil dog, and you a tin kettle tied to my tail."

CEMERT FOR CISTERES.—Ashes two parts, three parts clay, one part sand, mixed with oil, will make a cement as hard as murble, and impos-

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We continue to receive the favourable notices of the Press. If the farmers would appreciate our efforts as warmly, we should soon boast of a long list of subscribers; we give our readers two or three of these nonces as specimens of the 3rd, best data.

"THE CANADA FARMER! -This paper is con-ducted remarkably well, and describes the patronage of all our agricultural friends .- [Baptist Register.

We have received another number of the Canada Farmer. This periodical is got up with a good deal of talent, and merits encouragement. In addition to subjects, purely agricultural, it contains a large amount of instructive matter. I — Ham. Com Advertiser.

THE CANADA FARMER -This pleasing and usefol publication los been received. One must read it to be able truly to estimate its worth.

[Chatham Gleaner.

PROVINCIAL EXHIBITION

Of Farming Implements, Manufactures, Agricultural and Horticultural products, Fine Arts, Se. Se.

We continue the List of Premiums to be awarded at the Second Exhibition of this | 1st. best half-dozen Hay Forks, deploma Society, to be held at Hamilton, on the Sixth and Seventh days of October next.

CLASS F - Agricultural Implements. 1st. best Wooden Scorch Plough, diploma and £2 10
2nd, best ditto. £2 10
3rd, best ditto, Farmers Library and
Journal of Agriculture for 1846. 1st. best Iron Scotch Plough, diploma 1st, hest Canadian or American Plough, diploma and 2nd hest ditto...... Brd best ditto, Farmer's Library and Jour-1 10

2nd, best ditto.
3rd, best ditto, Gardner's Agricultural Dictionary. 1st. best pair of Hairows, diploma and .. 2

nul of Agriculture for 1846.

2nd best ditto . 3rd. best ditto, 3 vols. American Agriculturist. 1st, best horse-power Thrasher and Separator, diploma and

5 1st, best Drill barrow, diploma and..... 2 10

Dicionary. 1st. best Scar fier, diploma and 2

chanic. 1st. best Straw-cutter, diploma and 2 10

1st, best Hay-rack for Waggon, diploma 3rd. best ditto, Allau's American Agriculture. 1st. best Corn and Cob-crusher, d ploma

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2nd. best duto
3rd. best ditto 1 vol. Farmer and Mechan-0 15 1st. best Clover-dressing Machine, diploma 2 10

2nd. best ditto.
3rd. best ditto, 1 vol. Farmer's Library lst. best Hemp and Flax dressing Machine, deploma and..... 5 2nd. best ditto.

3rd. best ditto 2 vols. Farmer's Library, 1846.

1st. best Horse-cart, diploma and......

2nd. best ditto 3rd. best ditto 1 vol. Farmer and Mechanic. lat. best two horse waggon, diploma and .. 2 10 lat. beet Horse-rake, diploma and

0 15

Ist. best Resping Machine, diploma and... 2nd, best ditte 3rd, best ditte, Ure's Dictionary of Arts. Ist. bent Stump Extractor, deplom and .. let, best Mowing Machine, diploma and..

Ag. Society. 1st. best Potatos Digging Machine, diplo-

2nd, best ditto . . . 3id. best ditto, 2 vols. Farmer and Mechanics. lat best Farm Gate, diploma and 1 10

chanie.

1st. best model of Farm Fence, diploma and 2nd. best ditto 0 10 Brd. best duto, Gardner's Farmer's Die'y. 1st. best Cultivator, deploins and 2nd. bost ditto .. 3rd best ditto, Alian's American Agricus-

Ct. vs G-Domestic Manufactures. 1st best half-dozen Hand Rokes, dip. and £0-15 (2nd, best doto . ard, best date, I vol. Farmer and Me chanc. let, best half-dezen Narrow Axes, diploma

ist, best half-dozen Manure Forks, diploma

8 nd 0 15 2nd best ditto 0 10 3rd. best ditto, I vol. American Agricultu-

1st, best half dozen Sevilie Snaiths, diplema and..... 1 10 2nd best ditto..... Ard, best ditto I vol. Furmer and Mo

chanic. 1st, best Grain Cradle, diploma and 1st. best hall-dozen Grain Shovels, diplo-

Ist. hest one-horse Pleasure Waggon, di-1st, best subsoil Plough, diploma and 2 10 3rd, best ditto British Farmer's Instructor. 1 10 1st. best two-horse Pleasure Waggon, di-1st. best set of Farm Harness, diploma and 1 10

tionary. 1st, best set of Pleasure Harness, diploma

3rd. best ditto I vol. Farmers and Me-1st. best travelling Trunk, diploma and .. 1st. best side of Sole Leather, diploma and 0 15

lat. best side of Upper Leather, diploma 3rd best ditto, Allen's American Agriculture. 1st. best side of Caliskin, diploms and ...

1st best side of Skirting, diploma and... 0 10

chunic. 1st. best side of Harness, diploma an i... canic. 1st. best four or six panelled Door, diplo-

ma and..... 0 15 0 10 lat. best Window Sash, not less than 12 lights, diploma and 0 15 rist.

let. best Fur Hat, diploma and 2nd best ditto .. 3rd. best ditto, 1 vol. Farmer and Mechanic. 1st. best For Cap, diploma and......

2ad. bert ditto .. 1 10 3rd. best ditto, Gardner's Farmer's Dictionary.

1st. best For Robs, diploma and...... 1 0 U 10

WESTPHALIA PLAN OF SHOKING HAMS. room in a garret; fire in the cellar; smoke gathered in a tinnel and lead to the smoke rooms by a small pipe: by the time it gets there all the heaviest part of the pyroligueous acid has con-densed, and the smoke become cool. Nothing tenshes the ham but a pure, light, cool smoke which is allowed to pass off by a number of small spertures, about se fast as it is supplied .- [N.Y. O Parmer and Mechanic.

News Department.

HOME DISTRICT AGRICULTURAL SOCIETY.

At a meeting of this Society held in the Wardens Room in the Court House in this city a few days ago, E. W. Thompson, Esq., in the chair, it was resolved :-

"That the Spring Fair and Cattle Show do take place in the enclosed space in front of the New Gool and Court House on the second Wednesday in May, being the 12th day of that month, and that the sum of £69 be appropriated for awarding premiums."

Messrs. Crow, Atkinson and Denison were then appointed a commutee to make arrangements for the Dinner which is to take place on the day of the fur. We hope the farmers of the district, will make a point of attending.

Articles of Capitulation of Vera Cruz and the Castle of San Juan de Ulua.

PURTE DE HORSOS. Without the Walls of Vera Croz. Saturday, March 27, 1817

Terms of capitulation agreed upon by the commissioners, viz:-

Generals W. J. Worth, and G. J. Pillows, and Col. J. G. Tolton, chief-engumeer, on the part of Major General Scott, general-in-chief of the armies of the United States: and Col. Jose Gutterrez de Villauneva, Lieut. Colonel of the Engineers Manuel Robles, and Col. Pedra de Herrera, commissioners appointed by General of Brigade Don Jose Jaan Landero, commander in their Vera Cruz, the Castle of San Juan de Ulim and their dependencies—for the surrender to the arms of the United States of the said forth with their representations of the said. forts, with their armaments, munitions of war, garrisons and arms.

1. The whole garrison, or garrisons to be surrepdered to the arms of the United States, as priestlers of war, the 20th inst, at 10 o'clock a.m.; the garrisons to be permitted to match out with all the honours of war, and to lay down their arms to such officer as may be appointed by the general 5 in-chief of the United States armies, and at a point to be agreed upon by the commissioners.

2 Mexican officers shall preserve their arms and private effects, including horse and horse furniture, and to be allowed regular and irregular officers, and also to rank and file, five days to retire to their respective homes, on parole, as hereinafter prescribed.

3. Coincident with the surrendering, as stipu-lated in article one, the Mexican flags, of the va-rious forts and stations shall be struck, suluted by 1st. best set of Plessure Harness, diploma their own batteries; and, immediately thereafter, 1 10 torts Santiago and Conception and the castle of San Juan de Ullua, occupied by the forces of the United States.

4. The rank and file of the regular portion of the prisoners to be disposed of, after surrender 0 10 and parole, as their general-in-chief may desire, and the irregular to be permuted to return to their homes. The officers, in respect to all arms and descriptions of force, giving the usual parole, that the said rank and file as well as themselves, shall not serve again until duly exchanged.

5. All the materiel of war, and all public proporty of every description found in the city, the Casile of San Juan de Ultin and their dependencies, to belong to the United States; but the armament of the same (not injured or destroyed in the future prosecution of the actual war) may be considered as liable to be restored to Mexico by a labeled to a trante of users. 0 10 definitive treaty of peace.

6. The sick and wounded Mexicans to be allowed to remain in the cny, with such medical officers of the army as may be necessary to their

7 Absolute protection is solemnly guaranteed to persons in the city, and property, and it is clearly understood that no private building or property is to be tiken or used by the forces of the United States, without previous arrangement with the owners, and for a fair equivalent.

8. Absolute freedom of religious worship and ceremonies is soleninly guaranteed.

(Signed in duplicate.)
W. J. Worker, Brigadier General,
Gib. J. Pillow, Brigadier General,
Jos. G. Tottki. Col. and Chief Eng'r.,
Josk Gutierrez De Villanurva, PEDRO MANUEL HERREA, MANUEL ROBLES.

It is difficult to ascertain correctly the numbers killed on either side. According to some accounts 500 Mexicans were killed, and according to others the numbers is 1000. The loss amongst the soldiery is said to be much less than amongst the women and children in the City. Some ci the newspaper accounts state that one half, of the City is destroyed,-6,700 shot and shell weighing 463,600 lbs, are said to have been thrown into the City:

MERTIVO OF PARLIAMENT .- Parliament will be ed to meet for the despatch of business on the 4th of June next.

THE WHEAT CROY. The Brantford Couries says:—It gave us pleasure, during a jaunt of a few miles into the country (this week,) to witness the advanced growth—at this early period—of the new wheat crop, which if the weather continues favorable, promises an abundant harvest. ble, pron

Stope are being taken to form a Horticultural Society in Hamilton.

The Nova Scotia Legislature has passed a bill to incorporate a Nova Scotia Electric Telegraph

A project has been started in New Brwnswick for the purpose of making a marine radway across the Islamus between Nova Scotia and New Brunswick.

The Hon. George Mossat Las resigned the office of President of the Montreal Board of Trade.

The deposits in the Montreal Savings Bank have increased during the last five months nearly

ten thousand pounds. S. H Greer and Captain Colclough have entered the forwarding business at Kingston, in

partnership. Mr. Brady, the Whig Candidate for Mayor in New York, has been elected.

Kingston harbour is now clear of ice.

Several persons have died of wounds received in the late election riot, in Prince Edward Island. £1.317 3s. 7d has been collected for the starving Irish and Scotch, in Halifax, Nova Scotia.

On Wednesday night the 7th instant, a large crucilix was stolen from the St. Patrick's Church Quebec. It appears to have been destroyed in another part of the city.

The Legislature of Nova Scotia was prorogued on the 31st March.

Burlington Bay has been clear of ice several days.

The New York Herald states that Mr. Packmham is about to leave the United States for Lingland.

From the Glube.

Arrival of the Cambria.

(From the Albany Argus, April 21.)

[BY WAY OF NEW YORK.]

The Cambria arrived at Boston at half-past 6 o'clock, yesterday.

Gram markets receding in every description. In Indian corn for instance, is astounding. The price has receded 24s, from the highest point. Flour has sustained a considerable fati.

The existing depression can hardly fail to be occasioned by the fine spring weather which fore-shadows an early and prolific harvest.

O Connell's health had improved, and he had gone to Rome. If he would avoid excitement, it was hoped he would recover.

The state of Ireland is improving, the accounts received of the result of the carrying into effect of the general order, for the dismissal of the fifth part of the libourers on the public works, show that destitution has been greatly exaggerated, and in some districts, scenes of disturbance have occurred, and the order had not been enforced. The New Relief Measure will soon be in operation in sevemi of the counties where the Government is receiving local co-operation.

LONDON CORN MARKET.—Wheat and flour receded, 27th March, from 1s. to 2s. per quarter, and the latter 1s per brl. Indian Corn was pressed on the market at a reduced price from 22nd to the 29th. The downward tendency continued and further reduction took place in most of the articles offered for sale on the 29th Wheat fell from 3s. to 4s., and in some one or two instances 5s. per quarter. Flour unsettled. American saleable, on retail at Flour unsettled. American saleable, on retail at 1s, to 2s, per barrel below rates current on that day. Hardly anything done in Indian Corn. A better feeling in the market, on the 31st, Wheat sold on fully as good terms as on the 20th. Foreign Wheat sold at full prices.

LIVERPOOL CORY MARKET, APRIL 3 .- Large LIVERPOOL CORV MARKET, APRIL 3.—Large imports of Bread Stuffs has had the effect of putting down prices of all kinds of Grain and Flour. The fluctuation during the mouth amounts to Is. per 70 lbs. on wheat, 6d. per 45 lbs. on oats, 6d. per 60 lbs. on barley, 4s. per quarter on rec. peas, and beaus, 6s. per barrel and 8s. per sack on flour, 2s. per load on oatmeal, 24s. to 25s. per 480 lbs. on Indian corn, and 10s. per load on Indian collection. Within a few days a reaction has beautiful. on Indian corn, and 10s. per load on Indian collections. Within a few days a reaction has beautiful perienced in peas of 2s. per quarter. In fluing of 2s. per suck and barrel. In Indian Corn 6s. per 480 lbs., and Indian Corn Meal 2s. per barrel; the trade has generally assumed more finnness. Barley 6s. 9d. to 7s. per 60 lbs. Beaus Harrico white 70s. to 80s. Western Flour 37s. a 33s. Southern 1s. a 2s. lower. American Wheatrules from 10s. ta 11s. 6d for 70 lbs. Indian Corn 52s. for 480 lbs.; Meal 25s. per brl.

Toronto Market Prices.

April 20.	A.	đ.	* .	ď.
Flour, per barrel, 196 lb	25	0	a 27	0
Oatmeal, per barrel, 196 lbs	22	6	a 25	
Wheat, per bushel, 60 lbs	4	6	4 5	
l Rve. per bushel, 56 lbs	.2	9	# 3	
Barley, per bushel, 48 lbs	~2	4	a 2	8
Oats, per bushel, 34 lbs	1	6	a 1	8
Peas, per bushel, 60 lbs	2	9	a 3	9
Potatoes, per bushel	3	9	4 5	
Onions, per bushel	0	0	≈ 0	
Beef, per cwt		6	a 22	
Beef, per lb	0	3		
Pork, per 100 lbs		6	a 22	
Hay, per ton		6	a 45	
Straw, per ton		0	# 30	
Timothy, per bushel, 60 lbs	5	0	a : 6	
Mutton, per lb., by the gr	0	3	. 0	14.44
Veal, per lb, by the qr	ŋ	0	# Q	•
Tub Butter, per lb	0	5	4 0	
Fresh Butter, per lb	0			10
Turkies, each	2	0		0
Geese, each			4 9	6
Ducks, per couple		6		U
Fowls, per couple	1			
Chickens, per couple	Ĭ	3.	•	,,,,,,,
Eggs, per dozen Recou, per to	Ų	Ä	÷ 1	310
Home on and	Õ	-3		5
Hame, per cwt:		·O.		
Land, per lb	0	3	4 0	54

AGENTS FOR "THE CANADA FARMER."

The following persons have consented to net as Agents for the Canada Parmer. We allow to local Agents 20 per cent. for their trouble, which we hope will reminerate them, and induce them to make an effort to extend our circulation.

W. H. Smith, Travelling Agents. Dr. Smith. James Wetherald,

Local Agents.

Windsor—Mr. James A. H. Gerrie, Bookseller, Osbara—Mr. Gavin Burns, Postmaster, Bosmanri de—Mr. James McPeeters, Merchant Nuccustle—Mr. Myron Moses, Innkeeper, Nuccestle—Mr. Myron Moses, Innkeeper,
Port H-pr—Mr. Mex-ader Fisher, Merchaut,
Bloomfield—Dr. J. W. Howe.
Peterb ro—Mr. Robert Nichols, Merchaut,
Cobourg—Mr. John Tield, Merchaut,
Crofton—Mr. John Taylor, Postmaster,
Co'borne—Mr. Albert Yerington, Postmaster
B-ighton—Mr. J. Lockwood, Postmaster,
Birr Teent—Mr. Alexander Cumming,
B.R. riPe—Mr. A. Menzies, Postmaster
Shamonville, Victo, la District—Mr. Hiram Holden, Postmaster.

den, Postmaster.
Napanee, Midland District-Mr. V. A. Dunham,
Merchant.

Napanee, Midland District—Mr. U. A. Dunham, Merchants. Mingson—Messis, Olaphant & Wait, Merchants. Gircingue—J. Lowis Macdonald, Usq. Brockrille—Mr. Henry Jones, Postmaster. M. rickrille—Mr. Henry Jones, Postmaster. M. rickrille—Mr. Win, H. Bottum, Postmaster. Kempreille—Mr. Win, H. Bottum, Postmaster. South & Indis—Mr. Rohmson Harper, Merchant. Peron—Mr. James Allan Postmaster. B. aca—Captum Bahot. Postmaster. B. aca—Captum Bahot. Postmaster. In iroham—Mr. David Reesor.
I. acahon—Mr. David Reesor.
I. acahon—Mr. David Reesor.
I. acahon—Mr. Damed McMullen, Farmer.
I. allanon-Mr. Damed McMullen, Farmer.
I. allanon-Mr. B. Hagaman.
G. allanon-Mr. B. Hagaman.
G. allanon-H. M. Switzer.
Il acahon—H. M. Switzer.
Il acahon—H. M. Switzer.
Il acahon—Thomas Graig Brockville.
Boodstock—H. G. Barwick, Usq. London—Thomas Graig Brockville.
Boodstock—H. G. Barwick, Esq. Post Dover—James Biddell, Merchant Ancister (Jersey Settlement)—A. Hendershot. blacksmith
Barford—W. M. Whitchead, P. M. Dibacare—John Drake, P.M. Ingersol, Orford—Darms Doty Usq. Herdonand—John Loyde, P.M.

Advertising Department.

Wanted to Purchase

A GOOD HORSE, about 111 or 15 hands
As, high, and not more than six years old. He must be gentle to drive, as well as good under the saddle, and a first-rate traveller. A Mare would answer, but a horse will be preferred. Colour not note of an olg et, though black would be must liked. A good price will be given for one that so es, and cash. Any person having such an all uit to sell, will hear of a purchaser by addressing (post-paid). Editors Canada Farmer, Toronto, 22nd March, 1847.

In connection with the above, the Subscribers will open, on the 1st of May next, in the same GOOD HORSE, about 141 or 15 hands

Scales.

ITMESE SCALES are constructed with great because in the inventors. Effort is made to secure, not only perfect ACCURACY, but alsn't figure as STRINGTH and DURABILITY They have be all a gland and severely tested, and have be also are adapted to every kind of his personal and in the Country, a thorough and practical knowledge of the Profession.

RICHARD BREWER, I DWARD MCPHAIL, ROBURT MCPH

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

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

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

Werkman Brothers & Co.,

No 46, KING STREET,

OFFER FOR SALE: 2 tous Best Iron. tons Swedes from 20 tons Storage Fron, 10 tons Sheet fron, 10 tons Sheet fron, 22 tons Vaggon Boyes, 2 tons Cast Steel, ions Blister Steel, 1 ton Spring Steel, 4 ton Eagle Steel, 2 tons Camp Ovens. 2 tons Beiligd Pots, 5 Blacksmith's Belows, 60 Blacksmith' Vices. 15 "Hal's" rearranted Anvils. 120 Sugar Kettles. 40 Poinsh Coolers. 16 to a Pointpool" Plates. 25 Box Stoves, 21 to 36 melies, 450 casks Cut Nails, 50 casks Wrought Nails, 20 casks Patent Pressed Nails, 35 casks Horse Nails, 40 casks Wrought Spikes, 40 casks Windows Glass, 200 boxes Windows Glass,

200 hoves Windows Chass, 2 tons Putty, 20 dozen Common English Spades, 10 dozen Common Unglish Shovels, 5 dozen Irish Spades,

2 dozen Scotch Spades, 60 dozen Steel Shovels,

S dozen Steel Shovels, 10 dozen Gram Scoops, 40 Philadelphia Mill Saws, 40 Carrbanks - Platf'm's CounterScales.

JUST RECEIVED, ex ships Capricorn, Baron of Brandor and Backshire, in addition to their present Stock of HARDWARE,

15 Packages of Shelling & Birmisghan

Shelf Goods,

With an Assortment of American Hardware. Toronto, 25th March, 1947.



Home District Mutual Fire Company.

OFFICE-Nelson Street, opposite Adelade Street. Toronto.

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

DIRECTORS:

W. A. Baldwin, Dr. Workman John McMurrich, 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 26, 1246. 411-

Notice.

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

R. H. Brett,

161 KING STREET, TORONTO.

GENERAL MERCHANT-WHOLESALE

IMPORTER of Heavy Hardware, Burning-ham Shellield and Wolverhampton Shell Goods, Eartherware, and Glassware in Crates and Hhds.

Also,—Importer and Dealer in Teas. Sugars, Tobaccos. Fruits, Spices, Oils. Paints, Dye Woods, Gunpowder, Shot, Window Glass, Cot-

Toronto, Nov., 1846.

ROR Cheap Birmingham and Shellield Goods, try the NEW HARDWARE STORE,

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

J. Shepard Ryan,

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

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, 1817.

Improved Durham Bulls

FOR SALE.

ONE, two years and four months old ; colour dark red and white, but mainly red.

One, one year old; colour nearly the same as above, and promises to make a splendid animal.

For pedigrees and further particulars apply to II. Parsons, Ancaster, C. W.

Mr. C. Kahn,

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

Boot and Shoc Store.

4. City Buildings, Toronto.

SIGN OF THE GOLDEN BOOT.

FIIII: Subscriber embraces the present oppor-1111 Saliscoher embraces the present opportunity of returning thanks to his numerous custon ers, and the Public, for the liberal patronagé he has received from them since his commencement in Business, (being about fourteen years.) and begs to inform them, that having recently added to his Premises, and greatly enlarged his Stock, he has now on hand a large Assertment of Ladies', Gentlements, and Children's BOOTS & SHOES, INDIA RUBBLRS. Ac., of all sizes and quality, which he is disposed to sell on the most moderate terms.

JAMES FOSTER.

January 12, 1817.

J. Ellis, Civil Engineer.

TORIZON'TAL. Inclined, and Undulating ORIZONTAL. Inclined, and Undulating
Lanes of Ranhways Surveyed; Macadamized and Plank Roads, Canals, Docks, Harhours;
every description of Dramage, Timnels, and
Bridges of Brick and Stone, Iron and Wood,
buth 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 verse experience and

NOTICE is hereby given, that an Application will be made to the Legislature, at their next Siting. for an Act to Incorporate a Company to construct a Plank Road from the Kingston Road, South of Gate's Tavern, through Scarbure, to Markham Village, and thence to Stouffvide.

15th November, 1816.

CROWN LAND DEPARTMENT,

Montreal, 10th March, 1246.

NOTICE is hereby given, by Order of his Excellency the Administrator of the Governceived Locations of Land in Western Ganada, a since the 1st January, 1832, and also to parties a located previous to that date, whose locations a were not included in the list of unpatented lands, a label to forfesture, published 4th of April, 1839, that unless the claimants, or their logal representathat unless the claimants, or their legal represen-Patents within the Government, to be disposed of by Sale.

Swain & Co's Hygeian Medicine, On. WORSDELL'S

Vegetable Restorative

PILLS,

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

Authorised Travelling Agents.

Mr. Jacob Hick, Mr. James 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 WISHES TO THROW AWAY HIS CRUTCHES 1

Read the following l'atract of a Letter received from our Agent at Richmond, Dalhouse Dis't:-

Richmond, 5th August. 1816.

Mesers: John Swain & Co.,—As Agent here, I beg leave to inform you, that in all cases where your invaluable Pills have been used in this vicinity, they have been productive of the most happy results; the rehefallorded to individual suffering in various ways has been almost incredible; therefore I cannot pretend to give a detailed ac-count of their various virtues; but at the saina time I cannot forbear mentioning one particular case of a man, who, lorsome four or five months, was confined to his house, and most commonly to hid, and not able to reach the door of his dwel-ling, excepting by the use of Crutches, from the ring, everymany by the use of "Crucines, from the effects of invoterate running sores in both legs; yet, surprising to say, the Puls have entirely effected a care, and the man is now able to work, and travel about his business, whole and sound; his name is William Lackey, residing in the Township of Coulbourne, in this District.

1 remain, Gentlemen, Yours with respect, P. McELROY.

To J. Swain & Co.,

Edwardsburgh, January, 1817.

Gryttknen.—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 mu to give him a certific ite as soon as she was cired, 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 resum of her complaint, but is in perfect health. turn of her complaint, but is in perfect health.

ABRAHAM WILSON.

ations. Sections showing the true cost of compon Rules and Principles strictly acceptance active practice, both as Engineer and Contractor.

N. B. J. E. will give detailed Estimates, if required, to persons employing him, showing and proving that the Calculations are founded upon true principles, with Plans, Sections, or Model Maps, showing the true Cubic Measurements of Cutings, Embrudements, 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.

Deterstreet, Toronto,

Peterstreet, Toronto,

Peterstreet, Toronto,

Peterstreet, Toronto,

Peterstreet, Toronto,

Peterstreet, Toronto,

And Co.

Gentificated with a Stomuch Complaint, attended with distressing pain and general debility, and for the list two years of the time I was not expected to recover. At that time my busband was appointed Agent for the Sale of your Fills, when I determined to try them myself, and, by persevering in taking them every day, till I had use five boxes. I was perfectly cired, and have remained entirely well ever since.

I remain, Gentlemen, yours respectfully,

MARGARIT WILSON.

Testi .ony of C. J. Forsyth, Esq., Wellington Square.

To J. Swain & Co.

Wellington 'mare, January, 1847.
Gestlames,—I have been in the practice of using your Pilk myself, and recommending them to others, and I have found them to be unequaled in their effects upon that human system; and I believe your Medicine is a safe and efficient remedy against those afficting 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 3) feet long, from the ase of Swam & Co.'s Vegetable Restorative Pills.

J. WETHERALD.

CURE OF P'TLUENZA:

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

THE

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