FREDERICTON, N. B., FEBRUARY 11, 1878

NO. 71, WHOLE NUMBER 804

OLD SERIES, VOL. 15 NEW SERIES VOL. 5.

Correspondence.

For the Colonial Farmer.

RURAL TOPICS.

COST OF GROWING POTATOES.

n speaking of producing a crop the generally said, yet "to raise" is absolutely an improper term, applied to growing crops, but only less proper than " to grow." Let us now see what it generally costs to grow (or to raise, if you prefer that word) a crop of potatoes on good fertile land, such as will produce from 100 to 200 bushels to the acre? I will adduce my testimoty, and my first witness is a writer in the Country Gentleman, who says: "The work should be done mostly by horses with labor-saving implements. The land, to be in good condition, must be free from seeds of weeds, so as to require no hand hoeing, but to admit of frequent horse-cultivation; and it should be deep and friable enough to facilitate give these formulas only to show easy planting and easy digging. It what commercial fertilizers are recon must of course be well undergrained either naturally or artificially, especially if inclining to clay : and it should be deep enough to hold moisture in time of drouth. A case was met with a few years ago, showing the value of a deep soil, where a row of potatoes was planted on a covered drain, and the season being dry, it yielded nearly

the mellowed subsoil in digging the

drain making all this lifference. PLANTING, &C. There are some potat , planters that drop it by hand. The seed may be corn and plenty of manure. It was hitch your horse and let him pull. drills three feet apart, and the seed of May, just in advance of the grain deep when the ground is leveled. This the part after oats. Both completely Island writes me that a neighbor of should be done when the potatoes are covered the ground, blossomed the his had a large grape vine growing about twenty days after planting. It shade the ground more than wheat, coal; and a root of the vine, having ed in the fall, I plow it again in the good health, and without possessing them in the kitchen yard or at the may be done with a smoothing harrow, rye or barley." with short teeth, without any injury to the potatoes; or turn a common harrow over with the teeth up, and the work will be well done, the land made smooth, all weeds destroyed, and the potatoes just coming up. The entire after cultivation should generally be done with a horse, first perhaps with a cultivator, if the ground is hard, or very weedy, to be followed at the proper time with a horse hoe, and hilling the potatoes just enough to cover the weeds among them; and

the digging should be done with a potato-digger, or a plow. The writer sonoted above says: "On light soils, the digging may be performed by any of the cheaper diggers, which are made with prongs projecting in the rear of the plow; the soil being friable, where they will remain at least a year On heavy or adhesive soils, inone of use a common plow, running just deep enough to invert the potatoes, picking up all thus brought in sight, and bringing the rest to the surface, with tice, this mode makes clean gathering,

sixty bushels a day." THE COST PER ACRE.

It is not possible to give any detail ed cost of growing an acre of potatoes. that will apply to all cases, as it costs more in some soils than in others and some farmers have better implements than others; but the following estimate is not far from being correct

Plowing one acre of land.

\$15.00 kyanizing, &c." To this should be added one-half the value of any manure applied to the land, as half of ies virtures may be charged to succeeding crops; and if you please, you may add interest on the value of the land. I am sure that any farmer may do all the work for an acre of potatoes, as above stated, for \$15; and in some cases, the potatoes will not cost over fifteen cents a bushel, while the average will not even when a good dressing of manure is applied, be over twenty-five cents ner bushel. In some places, as at the west, where they grow from 300 to 400 bushels per acre, the cost is not

VARIETIES TO PLANT, MANURE, ETC. I think that the best variety now

over five cents per bushel.

variety that matures in September in hadn't been for an apple, where would quantity of feed required by all the of their food consists of vegetable the trees a month previous. These milk—they give an unpleasant flavor delay, or the business will stop. Cus-New Jersey-being neither early nor the ready-made clothing stores be to small breeds of fowls is about a bushel ate. Then there is the Early Rose, day?" Late Rose, Peerless Brownell's Beauty.

and Compton's Surprise, all very fine. est to ascertain what formula pro- disappeared. duces the best crops, gives the follow-

Here the actual potash (1371 lbs.) s the largest constituent in pounds but not in cost. Another dealer gives he following formula for 1,000 lbs:

Probably the second formula is designed for an acre of land, but both are enough for two acres each, and mended for potatoes, which is of terest to farmers if they never ex pect to buy any.

SEEDING CLOVER WITH OATS.

tried the experiment, as we double the amount from parallel rows; always seed with wheat, I will state e succestful result of a neighbor th wheat, one-half being in sowed he coming spring. The other part wheat The land was in good condibeginning to appear where the ridges same year, and were successful. I am

PRESERVING FENCE POSTS.

I copy the following from an English paper: "The proper seasoning of timber before being used in any sort of structure is far more important than the season of the year when it is felled, kind of timber used, or preventatives employed. There are paints. washes and heterogenous steeps re commended for preserving posts; but each is comparatively costly, and only partially successful. One great obection to the application of solutions externally rests on the fact that the sap being confined, accelerates decomposition in the interior. Most foresters must have observed this. What I would recommend with fencing posts is-the materials, when felled, to be directly sawn into posts and stored under sheds thoroughly ventilated, exposed to "sun and wind." The neck or part between wind and water each post should be slowly charred ver a strong fire-slowly, because our principle means heating the timber horoughly to the heart, so as to extract any moisture which may be still lodged in the centre, and hardening a crust on the surface of the posts not half a bushel per acre remaining Afterwards, to prevent the posts abin the soil. Two men usually harvest sorbing water, they should be well coated with coal tar, having its acid destroyed with fresh quicklime. The tar should be thoroughly boiled, to evaporate all watery matter, and applied boiling hot. A large tank holding the posts set on end, and filled with the scalding tar from a boiler, answers the purpose very well. O course, the upper half of the posts can be painted when placed, in situ. I am fully convinced coal tar, properly applied to thoroughly seasoned timber, is far more effectual in preserving

Miscellaneous.

and hung herself. If women go to like that, they are going to be scarce.

A Pennsyl vania lad gained a holiday

The first umbrella appeared in In regard to fertilizers, stable dung England in the year 1777; but history s good enough, but when commercial does not inform us when the first fertilizers are used, potash should umbrelladisappeared, and who carried edominate. A dealer in such fer- it off. Almost any man can tel ilizers, who undoubtedly has done his about what time the last umbrella

> An Irishman who had commenced building a wall round his lot, of uncommon dimensions, viz., four feet high and six feet thick, was asked the object by a friend, "To save repairs; don't you see if it ever falls down, it will be higher than it is now."

between bribing a man with a ten a mixture of Indian meal and water?" new and wonderful things. The fancy He almost took her breath away when he answered: "Wby, you see, one is with a feeling of exultation. The

Land may be seeded to clover with Saturday we put on another fellow's things not being adapted to our Western New York sa s: "Having sleeves were too short to button cuffs

HALTER-PULLING .- Take a small rope (say about half an inch, nothing heavier), about twelve to fifteen feet long, as the case may be; make a loop in one end about the shape of a ed, and disappointment is the result. common harness crupper; slip the tail of the lot was in oats, and then put to through the loop, then run the other end through the territ of the backpad, thence to the hame or bit ring, then put in good order, by careful plowing One pull of the tail will be enough, or full of starved, neglected things, is and cultivating, then rolled. The two at the most. Few horses can be clover seed was sown about the middle made to pull after a few trials of the taught this. I learned it from your tail-hitch .- N. Y. Tribune.

> FERTILIZING WITH CHARGOAL .- The owner of a large vineyard on Kelley's not far from an old eistern which had

only, but recur at short intervals, and set early, and delays the ravages of in one of these fits the sufferer usually the bugs a week or more. When the dies. This disease makes sure havoc potatoes are of a suitable height. I no farmer should be ignorant of a drills slightly. When the bugs apremedy to apply when needed. Cold pear, I go over the drills with a comwater frequently dashed on the head, mon sprinkler holding twelve quarts. the administration of catharties and with a tablespoonful of Paris green in ing the disease, particular attention the shovel-plow, raising the earth ; animals-a wild laxative diet being time I put on the flanges, and thus required for some time after the sub- scatter earth among the tops, to cover ject begins to recover and regains an the weeds remaining in the hills. appetite for rock .- Factory and Farm. never use a hoe, but go through and only a space of fifteen feet between

often read articles in the papers from I use the sprinkler. I plant the early men who have had little or no experi- varieties, and as soon as ripe I dig and many friends ask: "Why don't ence in keeping Brahma fowls, stating them with the shovel-plow, having you take these trees away; they must that they are great eaters. As I have the flanges on. By plawing deep posts than creosoting, poisoning, bred Brahmas since 1852, I plaim to nearly all the potatoes are thrown to so damp?" Such, I tell them, is not know something about what it costs the surface. They are then worted the case; they keep the house drier by to feed them, and this winter's feed and put into the cellar, or marketed. for fifty full grown Light Brahmas is My average yield, one year with an rain that falls, while the damp part a fair estimate for any season. I feed other, is 150 bushels; average price, A lady in London got the idea into daily seven quarts of corn and wheat 40c per bushe .- A FARMER, in Counscreenings, half of each and nothing try Gentleman. else. My fowls on this quantity of hanging themselves for a little thing feed often get too fat to lay well and then I cut down the quantity for a

for the whole school by dropping his kept the ordinary dunghill fowls and able to supply themselves with the I went through the field; there had rubbers down the heater, and ever I never could keep them on less than necessary variety of diet which they been a great deal of rain previously. ince he has been enraged at himself a gill of grain a day on an average, require. We have no idea what an and I found the cultivated fields and for not economizing and dropping or about three hundred and sixty-five amount of grabbage they hunt out and meadows very wet. One-third of the and a peck per year. Rating seven each deposit that they desire or crave. the original forest, and although i A clothier has excited public quarts of grain daily for fifty full They devour an immense quantity of was as flat and exactly similar in soil. curiosity by having a large apple grown Brahmas, it amounts to fifty- what we might term unclearly food, (a clay loam) and situation, there was painted on his sign. When asked for one quarts a year for each fowl, or a and yet the fowls do better to have no wet to be seen and the ground was

and a half a year.

The Way to Fail.

Many I have known to fail flower gardening because they com mence at the top of the ladder instead of the bottom, and I thought it best that they should be told this fact. A lady has seen beautiful flowers in he neighbors' gardens, and resolves to have flowers next season. (I have friend particularly in my mind.) course she wants the very best. and sees puffed in the papers, perhaps b editors who know nothing of the matter, or, advertised by some seed man, wonderful new thing, from Japan or Mr. Cherry asked his wife, the other | Timbuctoo, or some other outlandish morning: "What is the difference place. This must be obtained at any cost. All the money that can dollar bill to keep his mouth shut, and spared is invested in a few of these seeds are committed to the ground hush money, and the other is mush, neighbors, perhaps, have not heard of these wonderful acquisitions, and will open their eyes pretty wide when An old bachelor thus complains of the flowers appear in their glory, and his washwoman: "It is awful annoy- they find their flowers and gardens ing so have some other fellow's clothes left entirely in the shade. As usual left in one's room by the washwoman | a fall follows pride. Half of the new pats in the spring, but the oats should shirt, but couldn't wear it. Although climate, never reach a flowering state; not be sown very thick. A farmer in it was ruffled around the bottom, the others are only slightly different in and Stocks, and Balsams and Petunias nat any one can grow, were neglect-My advice is commence with a few simple hardy things, and not too

many. Do what you do thoroughly One little bed with a dozen good plants is a delight; a whole garden misery. I know you have always works. It needs repeating. - Vick's

Culture of Potatoes.

As many are giving their experience on raising potatoes, I will give that are confined, require great atten- benefits derivable from them. I would a filtering apartment filled with char- mine. Although my ground is plow- tion to keep them profitable and in strongly recommend the planting of found its way into the charcoal, filled spring. I then harrow it until it is the latter, they cannot be of profit to rear of the house, where they are the entire mass with its ramification; very mellow. With a planker I then the owner. It is useless to confine seldom now planted. A fine Norway the effect on the growth and pro- make it very smooth and level, and pullets or hens and stuff them with spruce, growing in a kitchen vard ductiveness of the vine was remark- with a shovel-plow I make furrows grain alone, and expect any great would absorb all the slops that might able. He intends, therefore, to try three and one-half feet apart and four amount of eggs. They must be pro- be thrown out, as the ground would some experiments with powdered or five inches deep. In the furrows vided with freshly broken clam or be always dry, and any moisture charcoal as a fertilizer. It is probable, I drop, twelve inches apart, potatoes oyster shells each day or two, and would sink into the roots at once inhowever, that in the case of the cistern cut in halves (split from end to end, either chopped cabbage or onions for stead of lying festering in the sun and the charcoal was saturated with ferti- or cut through the seed end), cach greens. The value of these two vege- breeding disease. In large cities this lizing ingredients filtered from rain piece being pressed into the earth by tables for poultry is not properly might not be practicable, as evergreens water, and hence comparatively little stepping on it. I then attach a chain esteemed. They are even better than do not thrive where smoke and dust benefit may result from the applica- or rope to each end of a 4 by 4 inch potatoes. When the tax develops on abound, but there are hardly any tion of charcoal unless mixed with scantling, making a bail six feet from us to supply the demand for green yards so small but that a horsericher ingredients. Saturating it with the scantling in the centre; then hitch food, or its equivalent, we are simply chestnut or free growing English water, in which hen manure is dis- a span of horses to the centre of the astonished at the amount they will cherry, etc., could be planted which solved would no doubt be very effective. rope, and ride over the furrows consume in order to satisfy their de- would soon grow large enough to keep -Correspondence Country Gentleman .- lengthwise. Should any remain un- mands. Besides this, they must have the yard dry at all times. In villages, covered, a man with a hoe can com- grain. Those unused to the feeding country and farm houses the trees BLIND STAGGERS IN SWINE .- Hogs, plete the job in a very short time, of poultry for eggs, when confined, would prove most beneficial in all like horses, are subject to the blind My potatoes are thus covered evenly, staggers. They are suddenly taken and come up even. As soon as they and perseverance to wait for the re in Montreal Witness. blind and staggering, and in a short are fairly up, I go over them again turns, which will surely follow, if the time go into spasms, especially if it be with my scantling and cover them age and condition of the birds be a severe case of the disease. These again. The last covering levels the right, -Country Gentleman. spasms or fits last but a short time ground smooth, causes the potatoes to among swine where it prevails, and take a shovel-plow and hill up the infections of turpentine and oil is one it. A man can sprinkle as fast as he kind of treatment recommended, and can walk. When weeds make their

pull out any weeds that may remain.

Winter Management.

Before I procured the Brahmas, I any description run at large, they are tance and cut off an angle in the road

matter. The latter is necessary and facts show that trees, even during to the milk. To prevent this turnips tomers will not long continue to come indespensable to health. Everything winter, absorb the rain that falls by are by some fed to cows immediately to a shop where they fail to find what that feeds largely on grain requires their roots, and exhale it from their after being milked. By others a they ash for. In the case of the mersomething to bulk, to distend the twigs and branches or use it, storing pinch of saltpetre is put in the milk. chant, it is comparatively easy to restomach, and keep the digestive organs | it up for future growth. in good working order, otherwise the bird or the animal cannot thrive. fine evergreens died throughout the Winter management of poultry is no United States and Canada. I lost a small item if we are judiciously in number of very fine large trees of rare clined, and have an eye to some varieties. I attributed it at the time income, no matter how small, from to the fact that for the three previous our hens. So long as the winter is years there had been a great drought; open and the ground uncovered from the ground at their roots was persnow, the fowl will in a great measure feetly dry and hard while the frest assist themselves, and if well fed and that winter had been very severe, supplied with water, will give a fair penetrating the ground here to three yield in eggs, but it often occurs in or four feet deep. Thus while the our northern localities that the ground trees were constantly exhaling moisis covered with snow, for three and ture from their leaves and branches sometimes four months during the (the severe frosty winds in winter ex-

When laying hens (which require leaving the land dry and healthy. vegetable food) cannot ind what they need, they will eat bay, selecting the found that while the wounded soldiers fine blades from well-cured meadow died in large numbers in hospitals. grass. Treated in this manner, Brah- those in tents under the trees, or in mas do admirrbly well, and return a the woods, generally recovered. This good profit in eggs. Laying hens re- showed that trees are really healthy quire and must have, fresh water. instead of otherwise, as contended by Farmers, if they only knew it, with a the writers previously alluded to. small expense and trouble, are well Now, though I would not advise trees situated to become, not only poultry to be planted too near a house, or so

certainly can be large egg raisers. must possess a good store of patience heavy, damp soils, - JAMES DOUGALL,

Trees Near Dwellings.

For some time back I have seen several articles taken from the health ournals, in the Witness, respecting the unhealthiness of having trees planted in front of or near houses. which I think are calculated to mis lead, and are not based on scientific principles. No doubt if a dwelling house is totally overshadowed by trees it will be injurious by keeping off the sun; but that it makes houses damper must, from long experience, deny. My own house fronts the north, with the front of the verandah and the BRAHMAS NOT GREAT EATERS .- I As often as the bugs hatch a new grop, street, in which several large horsebe so unhealthy and keep the house and care. There is always a profit t of my house is at the rear where the southern sun shines upon it but where moisture in wet weather, the soil being a clay loam.

Taking a walk of about three miles As a general thing when poultry of a few days ago, to shorten the dis-

and is an admirable place, providing fact that the eucalyptus or blue gum requires. he roost be contiguous. The cattle tree of Australia, when planted in wet trample the snow down, and beat out or marshy land where much malaria paths, which renders an easy footing prevails, has made them comparatively for them from place to place. Thus healthy. This has in a measure been they are able to obtain all the exercise attributed to a peculiar health-giving they need through the day. In this principle exhaling from the trees or manner they keep accustomed to the their gum. Though this may have atmosphere, and can endure consider- some effect, as in the case of fir and able degree of cold. Only the combed pine trees, still, I think on more close varieties suffer in our climate when observation, it will be found that the mercury drops down nearly or quite main cause is that the trees are exto zero, and even they are hardened, ceedingly fast growers, and that their if exposed by degrees, and soon be- roots and leaves absorb the moisture come accustomed to severe cold. with the malarial breeding matter, During the late rebellion it was

raisers, but breeders of choice stock, thickly as to keep the sun off it, for they have conveniences at hand, would advise their being planted near the expense is not so much. They enough for their roots, when wellgrown, to occupy the ground around Fowls, and especially laying hens the house; and to increase the sanitary

Best Food For Milch Cows.

recourse to other sources of supply in pally is affixed to one of the gudgeons, ready cash at fair paying prices. winter. They can live, it is true, on so that it may be worked by a belt Commerce comes knocking, purse in good, well-saved hay without other from a horse power. It is too heavy hand, at the farmer's door, for everyfood, but this is not enough. For a a machine to be worked by the hand, thing he can raise. With the excepcow giving milk, as much as for although a small machine might be tion of greater liability to drought, fattening animals, something more is constructed upon the same plan if and more exposure to wintry winds, required. When we take from her thought profitable to do so .- Farmers' there are no climate changes detrito have trees planted near them. I fich pasture a cow giving milk, and Advocate. confine her in the house to feed wholly on dry hay, the quantity of her milk must decrease, and with it any profit that might be made from her feed. But the farmer is not without resources chestnuts and lindens are growing, In winter as well as summer he can of food that may be raised on his farm. have all the variety of forage he can need at the mere cost of the tillage be expected from the fading on the absorbing through their roots all the ducts. The manure itself pays well for the labor.

TURNIPS.—The estimation in which there are no trace to apport the this poot is held for the feeding of lock is shown by the great area devoted to its culture by the best Under a proper system of culture, not to take down an old log building and selentific and practical agriculturist. In langland the turnip crop embracas annually not less that two millions of acres; and in Scotland half a million. Without the turnip the winter store of cattle food would be very scanty. Though turnips contain a large pergills per fowl per year, being a bushel scratch over, finding something in distance was through woods, part of centage of water, they are a very valuable addition to winter food for stock, and we have had animals fattened in good condition for the English market with no other food than turnips grown is the Snowflake. It is a an explanation, he inquired: "If it little over a bushel and a half per their runs, and hunt out these morsels as hard and dry as in midsummer, in addition to hay. There is an objecfowl, and I may safely say that the so choice to them. A large proportion though the leaves had all fallen from tion to turnips as food for cows giving low, but he must replenish without were, expended in annual croppings.

Both remedies we have known to be plenish an exhausted stock. He has Some years ago a large number of successful.

CARROTS.-There is no food more prized by English farmers for mileh cows than the carrot. So far from giving an unpleasant flavor to the milk, it is thought by many to improve it, and that it improves the color of the butter of cows fed on it is well known. The Belgian or white carrot is generally grown for cattle food, as it yields much heavier crops than any of the red varieties. It is admitted that as far as vield is concerned, the Belgian stands at the head of the carrots, but it is doubtful if its greater yield is not more than compensated for by the superior qualities of the other varieties. Roots grown to a large size are almost always of inferior quality, and in the comparison of large Belgian carrots with the smaller long grange or other carrots. the nutritive properties of the large Belgian fall much below those of the

BEETS .- The sugar beet has very valuable properties for feeding, and is now becoming better appreciated. tains must make it very profitable for fodder. The chief feeding value of mangel is derived from its sugar, and the beet that is so rich in sugar may be expected to possess still greater

thrifty merchant does, who is not closa the grain. It was no barren soil satisfied with merely obtaining a in which these monarchs of the forest

living profit, but aims to add continu- once grew and flourished. The land ally to his stock in trade. The fer- was originally rich. Its rank humas tility of his land is the farmer's stock. was the accumulation of ages. But in-trade. He should not only maintain that store of wealth has been wasted the stock, but increase it. A merchant in rigtons farming. It ought to have sometimes realize considerable been carefully hoarded, like so much cash in hand by running his stock capital, and only the interest, as it

only to go to the wholesale dealer. MANGEL WURZEL.-This root is pre- and order a new supply. At most, he ferred to the turnip for feeding milch only needs to wait long enough to imcows. It yields with greater certainty port fresh goods. He can quickly fill a much heavier produce. In the re- up his empty shelves. It is not se ports of the Department of Agriculture with the farmer. Time and patience we have returns of some crops of one are needed in order to replace the thousand bushels per acre and up- stock which has been used up by an wards. It does not communicate any exhaustive system of farming. If unpleasant flavor to the milk; this of barn-yard manure were sufficiently itself is greatly in its favor. It keeps plentiful and not too costly, and if it good till late in the season, even till could be had as easily and quickly as our fall rye is sufficiently grown to dry goods can be got from the whole-

cut for soiling. Late in the season it sale houses, the case would be different. is better for feeding than early in But manure is always scarce and dear. winter season. For the long period hausting the sap nearly as much as winter, when it is often found to be There is never enough of it on hand the leaves do in summer), while be- too relaxing. Excessive feeding with to meet the demand, and by the time An open shed, fronting the south, tween the drought and the frost they any roots is liable to produce too great it is bought and hauled to the land it with gravel bottom, and where the could absorb little or nothing by their laxity, but when fed sparingly in ad. is too expensive. The merchant care cattle run, affords a pleasant scratch- roots to replace it, they consequently dition to dry fodder, it is no more count on a profit after paying the cost ing ground for them during the day, died of inanition. It is a well-known laxative than the health of the animals and carriage of his stock, but a farmer must get his manure within a certain limit of expense, or it will not pay. Even in the vicinage of large town and cities, it is questionable if a farmer can buy and haul manure to advantago. The writer has lately settled on a "run-down" farm within two miles of a town of several thousan ! inhabitants. Manure cannot be bought for less than 75 cents per load. Only four loads can be hauled per day. A team and man are worth \$3 per day. That makes the cost of the manura \$1.50 per load. Twenty loads per acre is a moderate application. It would cost more than the price paid a year ago for the farm, to manere it at

that rate. A cheaper method of recuperation must be found, or plainly farming will not pay. The thing must be done by slower and less expensive process. The manure must be made on the premises, or dropped by sheep and other stock on the poverty-stricken soil. This is what makes it so deplorable that land should ever be "run-down." It requires either long time, or lavish outlay of capital to restore lost fer-The proportion of saccharine it con- tility. There are other means of recuperation besides the home manuwinter feeding as an addition to dry facture of manure, such as systems of cropping that bring a steady gain of productiveness to the land, but they all take time, and "while the grass grows the horse starves." How is the farmer to live while he is getting his A ROOT PULPER .- We will merely land into condition to support him? add a description of a simple root It is to be feared that many farmers pulper, an implement very desirable do not properly understand what ails in root feeding to cattle, It consists their land. We often come across of a cylinder of hard wood 18 or 20 venerable old settlers who, like veteran inches in dia neter, turned quita round soldiers, take pleasure in "shouldering and smooth, and of whatever length their crutch," and telling how "fields that may be desired. This is mounted were won," from the woody wilderupon gudgeons and armed with steel ness, and made to produce crops unteeth made of half-inch square steel. heard of now a-days. They think the The teeth are ground to a chisel point climate and seasons have sadly and screwed into the cylinder with changed since the good old times the bevel of the points upward and when thirty and forty bushels of wheat projecting half an inch. The toothed to the acre were harvested year after cylinder is fitted into a box of hard- year. No doubt the climate and seawood plank, and the box is to be sup- sons have changed materially since ported upon a stout frame, which the primeval woods were cleared should be firmly bolted to the barn away. But the change has not all floor. The front of the box is brought been for the worse. Sunshine and snugly up to the teeth of the cylinder. fresh air have been let in, marshy The roots are shovelled into the box places have been dried off, good roads In summer and autumn the farmer at the tap, and are rapidly reduced to have taken the place of log crossprovide for a fine pulp by the action of the sharp ways, and there are mills and markets his milch cows an abundant supply of chisel points. The pulp is thrown out close by. Produce was worth very food; corn, clover, peas, oats and rye at the bottom of the box, where it is little in the days when such bounteous will give all the variety that is needed received upon an apron of plank, and yields were obtained, and the low for our dairy stock in addition to our from that it fall upon the floor or into prices were given "in trade." Now ordinary pasture. But we must have baskets placed to receive it. A driving every product of the farmer commands

mental to the business of the farmer. Fertility of soil, drainage, and where practicable, irrigation, are effectual The majority of Canadian farms are antidotes to drought; while shelter by in the condition to which the homely means of evergreen walls and belts of but expressive term "run-down" is deciduous trees will furnish protection applied. A fox, or hare, hunted by from the biting blast. There is no dogs and mounted men, keeps soing use in disguising the fact that the until exhausted. All its strength great svil affecting our agriculture is gone, it falls a prey to its unrelenting poverty of soil, occasioned by overpursuers. It is "run-down." The cropping without manure. Our farm virgin soil of this country started in above referred to was once covered the race of improvement with a rich with magnificent tree growths indihoard of strength, but unrelenting as cating a said of surpassing fertility. meet" of huntsmen, the first The timbers in the old barns, built settlers cropped away at it mail ex- more than forty years ago, bear withaustion set in, and like the poor fox ness to the productiveness of the land on hare, the soil was "run-down," then. We have recently had occasion only will the original productiveness cut up some of the timber for other of the soil be retained, but it will be uses. There are rock elms that almost constantly increasing. A farmer defy cross-cut saw, axe, anger and should carry on his business just as a chisel, so tough is the fibre, and so