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The Licla.

Work for the Month of May.

The chief operations this month, are finishing the sowing of spring crops, and planting bood crops. Flax should be sown as early this month as the weather will permit. Grass and clover seeds may still be sown on grain fields, and bare spots in meadows. Rolling and top-dressing with fine manure are recommended wherever practicaole. They will greatly promote growth. Oats do best sown in April, but for seeding down to grass, they may be put in early this month, and if not likely to mature may be cut and cured like hay. Thus treated, they make excellent fodder. Oats and vetches mixed make good green feed during the summer, and cure well for winter use. Indian corn sown thick broad-cast. makes the best green forage for sammer soiling, but it ought not to be sown until the last of May, or first of June, to avoid risk of frost. We recommend our readers to try this, and also by all means to plant a patch of corn in the usual way for a crop of cars. This cereal is too much neglected in Canada: A few pumpkin seeds should be planted here and there among the corn. Sorghum should be planted about the same time as corn. We hope many Canadian farmers will try the experiment of growing a little sorghum for a home supply of syrup. Carrots and mangolds should be sown early in this month, if they are not already in the ground. Potatoes ought to be all planted by the end of May. As a general rule, the earlier they are in the better, provided risk from frost is avoided. To raise potatoes profitably, handhoeing should be avoided as much as possible .-Plough out drills about three feet apart, and drop the pieces a foot and a half in the rows. Cover with the plough, or with a cultivator having the middle tooth out. In about a fortnight, or just before the potatoes come up, a careful harrowing lengthwise may be given, which will be as good as one hand-hoeing. Ground should be in course of preparation for turnips and buckwheat, though these are not to be sown for some time to come. Beans should be planted this month. The white bush variety is the best for family use. Lairy operations will begin to demand attention this month. A clean, cool, well-ventilated milk-room should if possible be provided. In the orchard, grafting should be attended to this month. It is a simple operation, and the farmer need not wait till he can afford to employ a professional grafter. Try your hand on a few trees, and give over growing natural fruit, some of which is sour enough to give even pigs the celie. This will be a busy month in the kitchen and flower garden. Seeds of all kinds must now be sown, as the state of the soil and weather must now nesown, as the state of the sqit and weather hay is not cut too close to the ground, never allow-permit. Fruit trees, shrubs, shade-trees, &c., may ing the cattle to feed down close, and take care that ment for farmers, but the ladies, devote too much still be planted out with success. May is the best a plentiful supply of fog or withered grass is allowed time and money to it.

time for lifting evergreens. With care they may be successfully planted from the woods and swamps. but they are more sure to grow, and will come on much more quickly, if transplanted from the nursery. Active operations will begin this month in the apiary. Weak stocks may require a little feeding still, but it will not be long before white clover, fruit tree blossoms, early spring flowers, &c. will furnish abandance of food. Toward the end of the month there may be a disposition to swarm in the case of strong stocks, but generally speaking, there is no danger of this occurring until June.

Grass Lands.

THERE 's no subject on the farm more neglected, or less understood, or more important, than the grass or pasture of the farm. Grass will grow anywhere; let the land alone, and, finally, grass of one kind or another covers the surface; but such pasture is neither the best nor the most profitable, but like everything else that costs little, it seems to be preferred by too many farmers in Canada. To the ordinary, or old class of Canadian and American farmers, time is nothing, and space of ground is nothing, but the cost of a few dollars is most jeulously looked at and guarded against. The common Canadian pasture costs nothing but time and space, and is therefore preferred over that which is many times more valuable, and which costs labour and money.

What is the result of this? Where such pasture is kept for hay, it yields about ? of a ton per acre, when the crop is good, and from 1 to 2 a ton, when it is bad. The after-grass is poor in proportion-it will not carry half the stock it ought, yet as much stock is put on it as it ought to carry if good-it is cut too close, then usually caten down to the bare roots, immediately after haying, and again before winter. The timothy-where there is timothy-is killed; the clover heart is bruised and trampled to death, and often so weakened as to freeze out in winter, and none but the natural grasses will stand the bad usage the meadow has received. Now, bare fall pastures produce a poor spring crop; the meadow, having lost all artificial grasses, yields merely wild hay, fit only for cows, and when sold at market produces the lowest possible price. At last even Canadian patience gives out, and the ground is broken up, and, from rest, and the assistance of a summer fallow, and, possibly, some manure, produces a tolerable crop of wheat, but the same evil is perpetrated on some other portion of the farm. Now, what is the cure for this? There is but one: either to raise timothy and clover, and never let the land remain in pasture for more than one year; or, if you cling to the old meadows, thoroughly manure them; take care that the hay is not cut too close to the ground, never allow-

to cover the surface during the winter, and nurse the coming crop in the spring.

It is a well known fact that if timothy grass is cut

before the bulbs are formed, or even then, if cut below the second joint, above the root or balb, or allowed to be bitten down, the timothy is destroyed. Timothy and clover do not ripen together-to secure the best portion of the clover you ruin the timothyand if you leave the crop uncut till the timothy is ready, you lose the best part of the clover. The best English agriculturists meet this by sowing clover and rye grass together. We should be inclined to recommend a mixture of clover and orchard grass, but, perhaps, clover alone, where it can be got to take sufficiently well, yields the heaviest crop. We have always been of opinion that timothy should be grown alone, cut late, and not pastured, or not closely pastured. If grown for seed, a remunerative return is obtained, and threshed timothy is certainly far preferable to straw. Our system of farming does not yield enough manure to afford it for grass lands; but, really, you can manure grass lands more cheaply with their own produce than with manure carried out of a barn-yard. All the grasses yield within themselves the best manure for themselves, and the aftermath is really the cheapest and best manure which can be had. Cut the hay crop; fasten up the field; let the aftermath rot on the ground; apply plaster in the spring, and the next hay crop will be double what it was the previous year; repeat the operation, and the fertility of the meadow increases year by year, until the crop is treble to what we now obtain. Do you want evidence of these facts? There is nlenty before your eyes on every farm. Who has not some neglected corner of field, or orchard, or garden, where the cattle cannot get, and where the grass rots down year after year! Look at the crop of grass there and compare it with your old bitten down pastures-the produce is four times as much as on the pasture, the grass is rank and rich in appearance, and, if cut for hay, would yield at the rate of at least two tons per acre. Yes, but-farmers will say-who is going to let pasture go to waste while their cattle want grass ! Well, the question is-shall they want grass this year, or will you go without hay the next? You must cither manure with the produce of the barn-yard, or you must manure with the produce of the meadow itself, or you must go without grass, except in the homeopathic doses you now get from old pastures. You cannot spare the barn-yard manure from the grain crop, and, therefore, either of the other courses are open to you, and that generally adopted is to go with poor pasture in the fall and a trumpery hay crop the following year. Try our plan with one acre, or with one field, follow it up, and you will never again have to complain of short hay crop and poor pasture.

All about Sorghum.

WE should be glad to give our readers in a few words, the sum total of all the information which has been col but as all know, "circumstances after cases," and almost anything we might write of a definite nature, would have only a limited application.

As a general summary of the matter we may say

that upon the subject of seed, the spirit of the conven tions is in favor of the regular Sorge or Chinese Cane for syrup both on account of quality and compara-tive quantity of the product. For sugar-producing canes, the preference is given to the Imphee, particu-tarly the Om-see-a-na or Otaheitan. The so-called early Sorgo, and early black Implies are believed to early Sorgo, and early black Imphee are believed to ripen from three to four weeks sooner than the regular Sorgo or Imphee; not so productive, but quality of product in syrup not inferior. Nee-a-zan-a ripens at about the same time as the regular Sorgo, but may be worked to advantage earlier, before it is ripe. Quality of syrup from this cane, fair; sugar produced sometimes; cane stands up well. The Liberian, highly spoken of by all who are acquainted with it, was productive to the day up well, ripens probably, rery productive; stands up well; ripens probably a little later than the regular Sorgo; plant but three seeds in a hill of this cane as it stools out wonderfully.

Upon the subject of manure and fertilizers, much has been said in the conventions. We give as a summary the following:

On old land, strong manure, gnano, super-phosphate Nothing better than a good clover lay or well rotted manure. On new land, already rich in organic matter and saline salts, strong stable manure is positively injurious.—Plaster, lime, leached or unleached ashes, or well rotted manure may be used with advantage. Deep tillage is highly recommended, - For our part, we would, if necessary, curtail the breadth of the field for the sake of increasing the depth. We believe half an acre subsoiled will produce more and better cane in the average of seasons, than a whole acre, when ploughed in the ordinary shallow way.

Soaking, and even sprouting the seed is an advan-

tage in time, if the ground, when planting the seed is just right; if not bid good bye to your seed and the trouble of soaking and planting. Do not plant immediately after a shower, nor before the ground acquires a good condition.

With regard to manner of planting, some prefer to

drill, others to drop in check rows.—Some advocate a distance of four feet between the rows, others think three and a half most appropriate. We think the subject should be determined by the quality of the soil.

If the ground is rich and strong, it will support a
heavy growth at a distance of three and a half feet between rows, and with eight to ten stalks to a hill. while weaker ground would be overburdened, and yield almost nothing. On prairies, where the two-row to plant in check-rows, and work the cultivators both ways. Some advocate planting in drills and cross ploughing out. This will do when seed is abundant and cheap.

A great majority of those who write or talk upon A great majority of those who write or talk upon this subject, advocate planting cane seed very shal-low not more than an inch; some say half an inch, and others a quarter of an inch below the surface. If it were common for the majority to be right upon any question, we might have some confidence in its verdict upon this, but it is a conspicuous fact, that the majority is generally wrong, in its first conclusions. With reference to the planting cane seed, it is not probable that this pompous tribunal that dictates so confidently, ever measured the depth of its seed below the surface. If it did what kind of an instrument was employed, to sound the earth, and determine the matter of a quarter of an inch in ordinary rough, cloddy ground? We sagely suspect the majority knows very little of what it is talking about, and we don't hesistate to say that he is probably an and we don't hesitate to say, that he is probably an ignoramus and a humbug.

The depth to which the cane seed should be planted is governed, like a good many other things by circumstances; the nature of the soil, its particular coudition at the time of planting, fineness, moisture, tempera-ture, the condition of the seed, whether dry or soaked, the period in the season, whether early or late, all are to be considered, and the proper depth to plant is to

to be considered, and the proper depart to plant is to be determined by these, measured with the rule of common sense, and not an instrument graduated by barley corns and inches. If the soil is fine and damp, and warm, and is to be pressed down snugly upon the seed, and if it is not inclined to crust or bake upon the surface, it is then allowable to plant shallow-very shallow perhaps; but if the same conditions exist, except that of dampness, shallow planting is sense-

ground is damp and cold and heavy, almost certain to remain moist for some time on the surface, the seed may be left as shallow as possible; if deposited upon the surface and pressed down with the foot or a hoe, it will probably do as well as any way. Seeds left on the surface of the ground all winter from a previous growth of cano usually germinate in the spring. It is desirable to follow with the planting as soon as possible after the harrow, as it gives the cano at least an even start with the weeds, moreover, the state of the ground is the best immediately after being disturbed, both for covering appropriately and promoting an early growth.-Sorgo Journal.

Trees: their Æsthetic Influence.

" On for a law, originating in the perception of comfort, and self-imposed, which should make the planting of a few trees an operation as certain as the building of a house! Men would live longer and better for the happiness given to their homes."—Manse Clar-

Complaints are not unfrequently made, that the sons of most of our well-to-do farmers are all crowding into the so called learned professions, and instead of pursuing the noble and healthful business of cultivating the soil, have turned aside from the plough, the first creditor" as Burke has finely remarked, "in every country," and become transformed from independent gentlemen into third-rate physicians, and lawyers, of whom it may certainly be said that they indifferently administer justice. The chief causes of this unfortunate state of things it is not our present purpose to discuss; but the idea has forced itself upon our notice, whether the want of some such wholesome, self-imposed law as that referred in the quotation given above, has not had some influence in bringing it about. In other words, would not the old homestead ' and " ancestral acres" of our Canadian yeomen-our country gentlemen, become more dear to their children if they were made pleasanter? There is a sad want of neatness and external comfort about too many of our farm-houses-a lack of goodly shade-trees and pleasant flowers—of lawns and evergreens clustered thereon, all of which give such a charm to the landscape in "the old country"-the "land of our sires, and let us add, golden links to those homes which stand girt about with beauty.

"Amidst their tall ancestral trees O'er all the pleasant land,"

If it be objected that our climate is against us; that we can never enjoy the varied beauties of the holly, the laurel, or the laurustinus which adorn the shrubberies of England, Scotland, and Ireland; we simply reply that these, however beautiful, are not necessary to make our Canadian homes attractive. We can at least rival Britain in our forest trees, and it is to these that we chiefly refer. Is the beech less superb here than it is in England? Or is "the bonnie birken tree" less beautiful and graceful; or are the bright berries of the rowan-tree less lustrous and cheerful than on the mountains of Scotland? And have we not in addition to these and other trees common to both this country and our loved Mother-Isle, two or three peculiar to this side of the Atlantic. One of these is an evergreen second to none in majestic beauty, though far too little appreciated, perhaps because like its grave, upright companion the pine, it is so common-we refer to the hemlock. Even in the leafy month of June," when the forest is one mass of varied beauty and verdure, the stately hemlock challenges all its leafy compeers to draw away the admiration of any lover of trees, from its singular combination of grandeur and elegance; especially from the exquisite beauty of the contrast between the vivid light green of its fresh, pensile young shoots and the dark and somewhat sombre hue of its older foliage; while in the long dark months of winter, when most other trees are "barren as lances," it reigns supreme. The other Canadian beauty to which we have special reference is the sugar-maple, which superadds the outward graces of form and beauty to that internal sweetness of disposition which is so

beauty of form and colour, in magnificent umbrageousness, and, above all, in the gorgeous splendor of its autumnal hues, this beautiful tree has no superior. Well may the "sons of the soil" be proud to accept it as the chosen emblem of their country; and the daughters of Canada no less proud to have the bright autumnal flush of its leaves associated with their own blushing loveliness in patriotic verse and

music."
Why then, do not our intelligent Canadian farmers shelter and adorn their dwellings with trees? Most of them have an abundant supply of beautiful young saplings on their own land, which only require careful and judicious transplanting, some in groups, some singly, to transform a bare, comfortless looking spot into a cheerful, cosy home. Our pines, birches, naples, spruces, hemlocks, &c., are as beautiful as they are useful; and their wonderful variety of form and foliage was not created without design, by the wise and beneficent Father of all, and that design was obviously the intelligent enjoyment of man. Ought we not then to look about us more and see

"How beautiful is all this fair, free world Under God's open sky !" and looking try to enjoy it more, and learn the sweet lessons which the beautiful and interesting "Book of Nature" was designed to teach? If we could only have our homes more adorned with trees and flowers, we believe they would be far pleasanter and more thought of; and the homestead (what a charm there is about this fine old expressive Saxon word!) more highly prized as the magnetic centre of each family, drawing to it every Christmas or Thanksgiving Day the most distant of its members. Ah! giving Day the most distant of its members. An inches how little most of us know, how little we dream how much influence these things have—how strong is the attachment one forms to every individual plant whose growth is watched daily! But,

"A thing of beauty is a joy forever,"

"A thing of beauty is a joy forever," and if such joys are multiplied around our homes, we shall become a more happy and genial people, a home-loving people, and hence, a more intensely patriotic people. Such homes will furnish in abundance good citizens, able legislators, and, if need be, brave and skilful soldiers. We will only add as illustrative of our subject, the following choice extract from that delightful little volume—"Chronicles of a Garden," by the late Miss Henrietta Wilson, of Edinburgh, niece of the celebrated Professor John Wilson.

There is no season when trees are not a source of pleasure, varied and unwearied. You may have but one of each kind, and you may think you know that one well, but watch it, study it, and every sea-son of the year, every change in the weather will bring out new beauties.

"No plot so narrow, be but Nature there, No waste so vacant, but may well employ Each faculty of sense, and keep the heart Awake to love and beauty."

"If, as Arthur Helps, truly says, 'the moral experiments of the world may be tried with the smallest quantities.' so may the pleasures of the woodlands. One tree may afford diversified enjoyment, not only by its form, its shade, or its foliage, but by the effects its leaves give to light, whether it be the 'cool, green light' that is so expulsitely refeebing or the brilliant light that is so exquisitely refreshing, or the brilliant glow of carmine or orange seen glinting through

Cobourg, March 7, 1865.

Early Fall Cultivation.

To the Editor of THE CANADA FARMER:

Sin,-It is an old saying, and a very true one, that good cultivation is a partial equivalent to manure. Although I do not pretend to be a Solon in these matters, yet I will venture to give a few hints upon this most important, and too often much-neglected principle of husbandry.

Taking a retrospective view, we find that people used to take a great deal of pains in preparing lands for the production of the great staple, viz. : fall wheat, by thorough summer-fallowing and manuring. At the same time lands of any description, and prepared in a very careless manner, were thought good enough for spring crops. The much greater importance and value following the production of spring grains is gradually reversing this mistaken policy, and barley, spring wheat and flax now occasionally gladden the eye on fallow lands, greeting the summer zephyrs with their graceful undulations. Although satisfied less planting; the seed might just as well be in a dry house. If the seed is to be planted early, when spring trimingly manifested about this season, when "the of the great advantages from summer fallowing, to showers are likely to occur frequently, and if the and surly Winter are striving for the mastery!" In clean the land, &c., yet I do not consider it so absorbed. of the great adfantages from summer fallowing, to

lutely essential to growing of spring crops, for by a management, and of general farming, I send you a judicious system the lands can be well prepared in brief account of the same. It will, I trust, furnish the fall, if the land is not too dry to plough. To some matter of interest, and of profitable suggestion effect this the first ploughing should be done early, say in September.

Some farmers seem to think that when the harvest is secured a little relaxation may be enjoyed. The teams are allowed to run about the fields for a month perhaps, when, in fact, this is just the time to put few heads turned under will grow up and make feed, and give us that evidence, so refreshing to the eye of a connoisseur, of that process of decomposition so invigorating to the soil, while the fall rains furnish those elements of repleni-hment to the grateful bosom of mellow fields

Lands intended to be ploughed the second time in the fall can be manured after the first ploughing, and the lapse of one month, if the weather is favourable, will qualify them for the second. Or the manure may be put upon the lands to be ploughed, once in the fall, previous to the ploughing. In fields free from stumps I always plough the same way; I always find it ploughs better, both times, turning the lands back and forth. Many farmers, we find, make it a rule to plough across the furrows in every case, throwing up the lands into squares and diamonds, producing a wretched condition of the surface. Very lew farmers appear to be aware of the advantage of

lew farmers appear to be aware of the advantage of ploughing early in the fall. Lands prepared in this manner are nearly as good as fallow lands. Barley lands might be ploughed in August with corresponding advantages, if the ground is not too dry.

I feel assured I can give no better evidence of the correctness of my theory than by example, if you will allow me to give the product of my crop on a small farm in 1864. Having a little leisure after the barley harvest of 1863, we set to work to rip up our barley ground in August. It was hard work and hot. But the desire to wreak vengeance upon thistles, and bring their roots up to the sun encouraged us to proceed and plough deep. I found this land was like a garden in the fall. We ploughed early in the fall, and had the mos' of our ground prepared in the fall, which, on account of the extreme wet last spring. which, on account of the extreme wet last spring, happened very lucky, although one field we ploughed in the spring paluced the best crop. The rains in the spring p._duced the best crop. The rains were so disastrous in the month of May, even on high ground, that we found difficulty in getting in the seed. And here I might say a word in favour of gang-ploughs, for I found the "gangs" the best implements I had on wet fields. Cultivators were a hore and ploughing out of the question. bore, and ploughing out of the question. We got in all the seed by the 25th of May, and harvested acrop

Spring Wheat, 48 acres	1,100	bush.
Barley, 33 acres	950	44
Oats and Peas (mixed), 5 acres.	150	44
Peas, 2 acres	40	44
Corn (hoe crop), 15 acres	450	4.
Buckwheat, 5 acres	100	64

Total of Grain...... 2,790 bush.

The number of acres under crop was 10%. It is conceded, I believe by all, that the season of

It is conceded, I believe by all, that the season of 1864 was the most unpropitious in this country since the memorable dry season of (I am told) 1826.

As the season advanced the earth became solid almost as frozen ground, and the smoke hung like a pall over the face of Nature. Gloom perraded every precinct, and distress and danger from fire drove many in the new settlements from their homes. The extreme wet of the spring, followed by the extreme drouth of the summer, rendered many of the best lands of the country useless. But where high cultivation, on more favourable lands of good quality, exlands of the country useless. But where high cultivation, on more favourable lands of good quality, existed, the crop was quite good. I refer, of course, particularly to spring crops; as full wheat, in the older settlements, has become a foregone conclusion. I attribute the character of the crop, the details of which I have given, to be due to the system of culture am advocating, notwithstanding the bad season. For spring crops my motion is—"plough early after harvest." Cultivate well; prepare the land in the fall, but a ploughing in the spring will not hurt it, if so prepared.

A DURHAM FARMER. o prepared. April 14, 1865.

Meadowvale Farm.

to your readers

His flock of sheep consists mostly of "Cotswold" grades, with a sprinkling of the "South Downs," and numbers between 400 and 500, and they are all of superior quality,-in excellent condition,-none of them into work, and start the ploughs to turn over the them with fleeces torn, nor sickly or diseased. The land intended for the ensuing crop. But the hogs arrangement of buildings and yard enclosures, is such must run awhile in the stubble. Never mind that; a as to secure to them perfect shelter from storing and as to secure to them perfect shelter from storms, and separate apartments, for the breeding ewes, for lambs of the last year, and for other divisions of the flock, so as to prevent over crowding, or wasto of fodder. All the hay fed on the premises is cut by a machine, worked by horse-power, and capable of cutting ten tons in a day. The barn is built on a gentle eminence, with an extended roof front and rear, to give a shed the entire length upon each side, and with a cellar under the whole building, for roots and for cattle stabling. Buildings extend almost entirely around the yard, and are so arranged that the sheep can all feed under cover. They are twentythe sheep can all feed under cover. They are twentyfour feet wide,—covered, front and back and roofs,
with rough boards. A manger, on the inside front,
with an opening from the yard for passing in the
feed, extends their entire length. There are hanging
shutters, front and rear, that are raised in fair
weather, so as to give free passage of air across the
buildings, the entire length, and closed during storms.
The yard is so arranged that all the sheep can go out
without mixing the divisions, and can have daily
access to water, for drinking. A few turnips are
given out daily. The entire arrangement combines
economy and convenience in a most successful manmer, and is well worth a visit from any farmer en-

economy and convenience in a most successing man-mer, and is well worth a visit from any farmer en-gaged in sheep raising. Of 160 lambs last spring, only 3 were lost in raising.

For spring pasturage, he sows in the previous fall a few acres of rye, on which the sheep are allowed to feed. A small portion of the field is divided off by a moveable fence, made of tarred tiene netting, which is moved from day to day as the feed is consumed is moved from day to day, as the feed is consumed, and prevents waste by their running over it. In this way the sheep thrive finely, and the land is put in excellent condition for enother crop.

In stall-feeding cattle for the market, he feeds hay and roots for about six weeks previous to turning them off, gives oil-cake, about 4 lbs. each per day. This makes very fine beef. All the operations upon is farm of about 350 acres, are conducted with that thoroughness and good management which make the occupation both pleasant and profitable. It may be said that "Mr. Gooderham can farm in this superior manner because he has means at his command, but that a small farmer cannot do so." To this it may be replied that he simply acts upon the maxim that "what is worth doing at all, is worth doing tell,"—and this will apply to a farm of 50 acres, as well as to one of 350 acres.

E. L. S.

Neglect of Turnip Culture.

To the Editor of THE CANADA FARMER:

Six. - In January last, I travelled through the not thern part of the garden of Canada (County of Oxford), to buy beef cattle or store cattle; in reply to my many enquiries, I was told "we sold out in the fall. Fodder is very scarce. It does not pay to winter feed. It will not pay to grow turnips; we have bad luck with the turnips" &c. It seems strange that our settlers (for they are not worthy of the name of farmers) are so blind to their own interests as to exhaust their land by growing wheat averaging ten bushels per acre, starving their stock or give them away in the fall, because they have not fodder sufficient to get them through winter. By the last statistics we raised 27 million bushels of wheat and only 10 million bushels of turnips. Is it any wonder that our defrauded soil refuses to give the abundant crops of wheat it did a few years ago, when we carry all away from the soil and take nothing back? The Press has for years urged the settler to threshout his grain as soon as harvested, and sell it because he will get a cent or two more per bushel in the fall than he To the Editor of The Canada Farmer:

Sm,—Having just had the pleasure of visiting at this place, the farm owned and occupied by Mr. Wm. Gooderham, of the firm of Gooderham & Worts, and of inspecting his excellent system of sheep

straw and chaff before winter. Hundreds of animals are starved to death annually by the wilful waste of

fodder.

And again, every writer in the country is writing about flax and its cultivation, showing by figures, that flax is the only crop that will restore our exhausted soils and fill our empty pockets with the needful. The flax crop will exhaust our soil more than the wheat crop, except we grow it in regular rotation, and consume the seed or its equivalent in oil-cake with turnip to winter-feed cattle, for the only way that we can restore our exhausted soils, is to manure our farms from resources within themselves.

The only way to remove this prejudice organist tree.

farms from resources within themselves.

The only way to remove this prejudice against turnip growing, is through the columns of The Canada Farmer. Let every turnip grower write to the Farmer his plan of preparing the land, sowing his seed, time of sowing, &c., &c. Establish Farmers' Clubs in every school section, so that farmers can meet together and exchange ideas on all agricultural subjects. And let every subscriber of The Canada Farmer lend his neighbour the Farmer for perusal, for it only wants to be known to be appreciated. it only wants to be known to be appreciated. w. c. s.

Haysville, March 20, 1865.

Flax Culture vs. Wheat.

To the Editor of the Stratford Herald.

SIR.—As the season for sowing flax is fast approaching, farmers will naturally enquire what has been the result of the experiments of the past year. I beg a short space in your columns to lay before them a few candid facts connected with this crop. It is needless to state that from the continued drouth of the past summer it was probably the worst season that has occurred for years past, on which to have first introduced it; and farmers may justly be asked to consider how many fields of wheat under such circumstances have been harvested that have not paid the bare expense of the harvesting. However, it will be seen by the following statements that Flax at least bears a most favourable comparison with the great staple of the County, viz: Wheat:—

From 2 bushels sown—23 bushels seed, sold for Fibre	\$35,60 21,42
9 acres—165 bushels seed	\$59,42 \$125,00 130,00
1 acre—16 bushels seed	\$255,00 \$22,00 15,00
j ₄ of acro-5 bushels seed Fibre	\$37 00 \$6,07 4,94
2 acres—seed.	\$10,94 \$29,00 25,00
2 acres—seed 25 bushels	\$54,00 \$31,25 18,00
1 acre—20 bushels	\$49,25 \$25,00 17,50
	\$42,50

many more cases might be adduced, but the above will give a fair estimate and when compared with the average yield of wheat of this County during the past average yield of wheat of this County during the past year, which was certainly not over twelve bushels—it is thus evident that in all the above instances the balance is decidedly in favour of Flax, as a crop. This section of the Province is admitted by all persons conversant with the growth of Flax as perhaps the best suited to its culture, of any part of Upper Canada. I am fully satisfied that with care and attention, and on well selected soils, and with a more favourable season than the past, the above results would be doubled, certainly as far as fibre is concerned. cerned.

In placing these statements before the public the object has been to adhere to facts, and not hold out false inducements, leaving farmers to judge if it is not better to encourage the growth of a crop that will produce such results, rather than persist in the continued growth of wheat, the average of which is yearly being reduced in this County. There are now two being reduced in this County. There are now two
flax mills in operation—one at St. Mary's, the other in
Stratford—thus furnishing a sure market for all the
seed and fibre that can be produced. Messrs. Brown seed and fibre that can be produced. Messrs. Brown & Co., of Stratford, are prepared to purchase any quantity of Flax that may be grown in this section during the coming season—They have had some of the past crop spun by farmers, and will shortly have about 300 yards of bagging ready for market. They will also furnish seed to farmers as far as possible.

W. IMLACH.

Stratford, April 3rd, 1865.

The Breeder and Grazier.

"Gipsy Oueen."

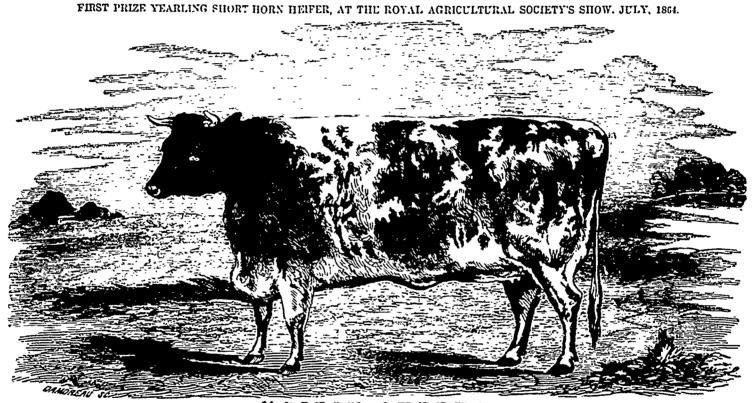
ROAN, bred by Mr. Foljambe, Asberton Hall, Notts. calved on the 17th October, 1862, got by Imporial Windsor (18086), dam Sibyl by Mayduke (16553), dam Seraphine by Monarch (13347), dam Seraph by Lord Brawith (10465), &c.

"Gipsy Queen" won the first prize as a yearling heifer, at the Royal English Society's Show, held at Newcastle, in July last, beating a number of fine heifers, among others, Mr. Richard Bouth's Lady Bates, Mason, and Cherry blood. Her grandstre, Fragrant, Mr. Eastwood's Butterfly's Pageant, Blue Belle, and Eagle's Plume, bred by the Messrs. Mitchell. "Gipsy Queen" afterwards took the first prize at the North Lincolnshire Society's meeting at Gainsborough, but was beaten at the Yorkshire also bred by Mr. Ambler, was a bull chiefly of Mason Society's Show, at Howden, where Mr. Booth's Lady blood, but he had a somewhat mixed pedigree. Her Fragrant was placed first, Mr. Eastwood's Butterfly's great great grandsire, Lord of Brawith (10465), a fine Pageant, second, and "Gipsey Queen" received a bull of his day, was descended from the Princess and

her portrait indicates, she was large for her age. Her fault was that she was rather large. Yet, she was so ripe in her points, and so even withal, that an impartial judge could not but admit that her proper place had been assigned to her. For a heifer of her age, her quarters were very closely packed, and the thickness of flesh on her back was remarkable. The Mr. Unthank and Mr. Knowles, as a reason for placing hor third, urged with their colleague Mr. Singleton, that she had a miscellaneous pedigree; And certainly this is an objection of great weight, especially as against her male progeny. Her pedigree is made up of strange combinations, in great variety, of Booth, Mayduke (16553), was bred by Mr. Ambler, and was got by Grand Turk (12969), dam Cherry 4th by Gainford 2nd (10255), &c., a combination of Booth, Bates, and Cherry. Her great grandsire, Monarch (13347).

Sometimes a happy hit may be made, but ing. generally, herds so bred have no distinctive character, and consequently, want uniformay. If there be any virtue in pedigree, the certainty of producing uniformly good animals, of the same type, must be greatly enhanced by adhering, as closely as possible, to particular tribes. Such has been the experience Howden verdict was strangely heterodox. No doubt; of all successful breeders. Mr. Bates pursued this system with continued advantage for 30 years, and Thomas Booth, with his sons the late John and Richard, acted on the principle for 80 years, and they produced races of animals, which, for correct symmetry, strength of constitution, thick flesh, and great aptitude to fatten, have been unrivalled. Of course, in following this system, it is all important to make primarily a good selection. We cannot give our readers a better idea of our notion of a good Short-Horn than by quoting the language of one of the best judges and most successful breeders of our day, Mr. Douglas, of Athelstaneford.

He says:-" It is not animals of a large scale that are wanted. In such subjects there is generally a preponderance of bone, long back, weak toins, flat high commendation, an award styled by the editor of Brampton tribes. The rest of Gipsy Queen's ribs, and much coarse beef. What we want, in my



******& 3 & 8 & ***** ONEEN.

the Farmers' Magazine, "to be as false a finding as | pedigree is largely of the Booth and Mason blood. ever was recorded," although it was the work of that Short Horn Nestor, John Unthank, of Netherscales, and of Mr. Knowles, the guardian of Capt. Gunter's Duchesses. The former, having left his first love for Princess blood, now goes strongly for Booth, and of course he was the champion of Lady Fragrant; Mr. Knowles being a Bates man, went as gamely for the little red and white. The grand-daughter of Lord Ducie's pet bull, the Duke of Gloster (11382), Lady Fragrant, a rich roan, is a heifer of great style, with grand forequarters, but has a bare back, and is sadly deficient behind. Butterfly's Pageant was a neat, fine heifer, but had no wealth, she gave a good side picture, but when you stood in front of her, or behind her, she was narrow-very narrow. Altogether, she wanted the grand commanding presence which would have justified the 590 guinea bid, which, under the stroke of Mr. Strafford's hammer, transferred her from Townely Park to Whitewell, a quiet nook among the Lancashire Hills, where she only lived long enough to give birth to a bull-calf.

At the Newcastle meeting of the Royal, "Gipsy

Her strength of character was unquestionably derived from her sire, Imperial Windsor (18086), a very fine Booth bull, bred by Mr. Carr, of Stockhouse. He was got by Mr. R. Booth's Windsor (14013), a bull justly styled the "Modern Comet," and perhaps the most impressive sire which ever left the Warlaby pastures. He took nine first prizes at various national and local shows, among which, in 1854, were the three national first prizes at Lincoln, Berwick, and Armagh. Farewell, the dam of Imperial Windsor, was by Mr. R. Booth's Royal Buck (10750). She was of Mr. Booth's famous Mantalini tribe, from which, Sir James the Rose (15290), the sire of Mr. Christie's Queen and Frido of Athelstane, is also descended; a family which has largely contributed to lay a solid foundation for the fame of the herds at Warlaby and Killerby.

Mr. Foljambe was offered 500 guineas for "Gipsy Queen" at Newcastle, and refused to part with her. This was a large price, taking into account her miscellaneous breeding. No doubt Mr. Foljambe fully appreciates the advantage of breeding in line, and having so well begun, will go on with Booth blood.

opinion, is an animal of apparently small scale-but in reality not so-having a great propensity to fatten; on short legs, with fine bone, massive, compact body, wide chest, ribs well sprung, thick loins, and well filled up quarter, with deep twist, body all equally covered over with heavy flesh, and plenty of soft hair, and having no coarse beef on any part. This is my standard of a Short-Horn, and when I speak of such, I have in my mind's eye many of Mr. Booth of Warlaby's best animals. Look at the docile, ever, intelligent expression of countenance, the waxy horn, moderately short neck, full neck vein, prominent bosom, beautifully laid shoulder, capacious chest, ribs well sprung from the back, thick fleshed, strong toins, deep flanks, hoggins well covered, lengthy, well-packed quarter, with deep twist, on straight legs and fine bone; -such are nearly all the animals that constitute Mr. Booth's celebrated tribes or families of Short-Horns. There can be no mistake about the character of this herd: it is so indelibly stamped that any person once seeing them would again detect the likeness of the head even in the killing-bootly. In brief, I consider a perfect specimen of the Short-Horn Queen" was one year and nine months old, and as No breeder can ever succeed by miscellaneous breed-lone of the most beautiful objects in creation."

The Zuiry.

Soiling Cows on Dairy Farms.

THE feeding of milch cattle in a way to save all their manure, and to enable them to make the most economical use of all that grows upon the land devoted to fodder crops, is accomplished by what is termed "soiling." This is seldom practise I in this country, not from any lack of minute explanation of the system and of its advantages by the agricultural press, and not by reason of there existing any reasonable doubts whether it would succeed in this country It has been successfully practised by farmers in many

ous facts, or any one may prove them such after having had sufficient trial to learn how to manage with reasonable economy. The question is, How to do this: at least, How to Broin. Knowing that Mr. Donald G. Mitchell—the author of that very delightful and instructive book, "My Farm of Edgewood," which we have taken occasion more than once to commend to our readers-had given much thought to this subject, we wrote him for permission to publish his plan for beginning a system of soiling on an old left on deposit in the land for subsequent cereal farm, which is detailed in the book above referred crops. I do not think you can urge soiling too to. Instead of this, Mr. Mitchell writes:

"I send you a rough draft of the shed I had proposed to build, which would have been a cheap but substantial affair, and which, as a manufactory of

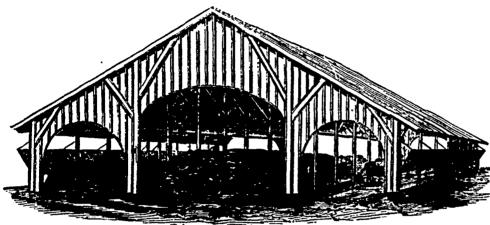
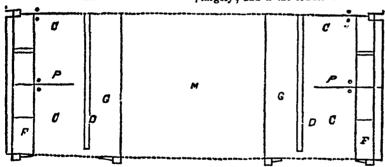


FIG. 1.—ELEVATION OF SCHEEK PARCHES SHED—FOR DAIRS OF PIFTS COWN

different localities. Nevertheless, few farmers can be brought to believe that the benefits are so great as they really are, and they seem to feel as if they could not spare the labour required to take care of the stock in stables. Besides, few farmers have buildings adapted to the purpose, and so centrally situated that the labor of hauling the fodder from the fields to the cattle is not a great bugbear. Soiling cows will pay, and may easily be done on many dairy farms. The advantages may be briefly er imerated, viz.:

1. The cows are kept in better condition, give more milk, are kinder, more docile, and hold out in mil. longer, than if allowed to roam.

manure alone, would, I think, have paid for itself in three seasons. Were I to erect all buildings de novo. I would so arrange them as to make one feeding place serve for both seasons. But my old winter stables were neither centrally situated, nor were they so disposed as to admit of an economic handling of the corn fodder, or other green food which might be supplied. And this last is a capital point, when reckoning upon the advantages of feeding a herd of twenty to fifty animals, two or three times a day, through out the busy season. Green corn-fodder is bulky and heavy; every half mile of transport counts largely; and if the fodder be handled over two or



-GROUND PLAN OF 16 FRET IN LENGTH OF THE PERDING SHED

REFERENCES-C. C. Cattle Floors; D. D. Drains for tiquid manure, P. P. Feeding troughs, G. G. Gangways in rear of cattle; M. Manure heap; P. P. Two of the partitions between pairs of stalls.

- 2. The interior fences of a farm may be entirely three times for bestowal along the mangers of dispensed with; a large yard being provided for the cows to take exercise in for an hour or two in a cool part of each day.
- 3. The entire product of the land is secured and fed to the cows. None of the crop is spoiled by the droppings of animals, nor hurt by their tread, nor by being lain upon; nor is it stinted in its growth by close cropping during the heat of summer when it can least endure this.
- 4. Both the solid and liquid excrements of the animals are saved without loss, to be applied to the soil at the best season, and in the best form, according to the judgment of the farmer—an advantage which outweighs all the others.

We do not propose to argue the above question of

interior stabling, a great deal of labor is need lessly sacrificed. Again, my proposed summershed was not only central but within easy hauling' distance of the muck bed, from which I counted upon a weekly supply for the accumulating manure heap. And yet again, tals nanure heap would be within easy carting distance of the fields to be tilled the following spring. A shelter for the manure. under the conditions supposed, I should consider quite as important as a shelter for cattle. It is the habit with many who grow corn folder to help out the August pisture, to souter the newly cut stalks over \$10 parched fields. Under these conditions, with a flery sun, and a scorched turf. I believe that the loss of fertilizing qualities in themanure is enormous expediency. The advantages above stated are obvi- With the feeding shed, every particle of manure

would count for its true value; the cattle would be protected from the sun, and with a sufficient head of water at command, and a few feet of hose, the utmost cleanliness might be secured, and the temperature moderated at will. For success in solling, particularly with corn-fodder, heavy manuring is essential; and the more rank and ammoniacal the dressing, the greater will be the succulence; and as the crop matures no seed, a reserve of mineral food will be strongly; and I am satisfied that in ten years' time no good dairyman upon smooth lands within close neighbourhood of towns, will ever turn his cows to pasture."-American Agriculturist.

To KEEP BUTTER SWEET IN A CASE.-A compound of one part sugar, one part nitre, and two parts of the best Spanish salt, beaten together into a fine powder, and mixed thoroughly with the butter in the pro-portion of one ounce to the pound, has been found to keep the butter in every respect sweet and sound during two years that it was in cask. It is also said to impart a rich marrowy flavour that no other butter ever acquires, and tastes very little of the salt.—Irish Furmers' Gazette.

CHEESE FACTORY IN ILLINOIS .- The Prairie Farmer says, we are informed that a cheese factory, on a small scale, we presume, is to be established in the vicinity of Hainesville, Lake Co., Ill., the present season. This we believe, will be the first effort of the kind in the West. The factory system has been found so satisfactory at the East that we have no doubt of its suesactory at the East that we have no doubt of its success here. We hope to hear of more efforts in the same direction. Dairying is already a profitable business here and may be made much more so. Success to the first cheese factory in Illicols."

It is rather flatering to our vanity, to find that Can-ada is ahead of Illinois in the watter of cheese factories: we had two or three in operation last season.

Sheep Ausbandry.

SHEEP IMPOSTURE .- The Ohio Farmer says, it is informed that certain parties residing in Michigan are procuring sheep and colouring them with a composition of lampblack and tallow, and driving them into Ohio, and selling them at almost fabulous prices, and that a large sum has already been realized by this outrageous swindle.

TO MAKE EWES OWN STRANGE LANDS.-A COTTOSpondent of the Prairie Furmer proposes the following artifice:-" Take a ewe which has lately lost her lamb, and start the blood a very little in the lower part of the nostril. Put the strange lamb to sucking her, and let her small it. She smells her own blood, of course, and, in most cases, will own the lamb."

FATAL FIGHT BETWEEN TWO SHEEP .- As two rams belonging to H. Cleave, Esq., of Cholsey, were grazing together on the 23rd ult., in a meadow near his they were observed to retire a short distance so that the space between them was about fifteen yards, and after facing each other for some time, they suddenly rushed at each other, their foreheads meeting with a crush. Immediately after, one was observed to fall, and on examination it was found that the force of the collision had broken its neck.— Willshire

SHEEP SHEARS.—Few people have any correct idea SHEEP SHEARS.—Few people have any correct idea of the difference in saving by the use of good shears. It is profitable to get the very best that can be had. They should be of the best steel—and of medium length—the points not too sharp. The spring should not be too stiff—as the hand soon becomes weary. Experienced shearers will always select those having tong blades. Those who pay no attention to the kind of shears they use, frequently mutilate the sheep and besides this, they leave enough wool on their backs are for a good pair of shears in one season. It is to pay for a good pair of shears in one season. It is good economy to select the best shears, and see to it that they are kept sharp.—Rural World.

PASTURING ORCHARDS WITH SHEEP .-- Allow me to PASTURING ORCHARDS WITH SHEEP.—Allow me to give what I consider the best way to treat an orchard after it has been seeded to grass; that is to pasture it wit sheep. They seem just fitted for the purpose, is they remove very little from the soil that is not returned; they eat what apples drop early because of worms, together with the pests themselves, and keep the grass down short, making it good picking up the fruit. I know by my own experience and the testi-

mony of observing and practical men, that trees will thrive and bear large crops of fruit, almost free from knots and worms, when sheep are allowed to ruu among them until the fruit begins to ripen—while other orchards that have been mowed will make only a small growth, and produce only second or third-rate fruit.

1. Grass and vegetation of all kinds texcept the

trees) should be kept down as short as possible.

2. All that grows in an orchard, except fruit, should be returned to the soil.

3. Trees should be allowed to branch low in order to shade the ground under them and keep grass from growing.

from growing.

I find that apple trees with branches just high

I and that apple trees with branches just high enough for sheep to go under, do much better than those trimmed up four or five feet.

The above remarks refer to bearing orchards—of course, young trees demand and receive cultivation, or else die.—Ex.

INJURIES TO SHEEP AND CATTLE BY DOGS. The following is a copy of a bill, to render owners of dogs in England and Wales liable for injuries to cattle and sheep, which has been prepared and brought in by Mr. H. Fenwick, Mr. Shafte, and Sir H Williamson:

Whereas, it is expedient to amend the law as to the liability of the owners of dogs for injuries done to cattle and sheep by such dogs; be it therefore enacted by the Queen's most excellent Majesty, by and with the advice and consent of the Lords spiritual and temporal, and Commons, in the present Parliament assembled, and by the authority of the same.

1. Owner of dog to be liable in damages for ang inveg committed by his dog-Recovery of damages. The owner of every dog shall be liable in damages for mjury dono to any cattle or sheep by his dog: and is shall not be necessary for the party seeking such damages to show a previous mischierous propensity in such dog, or the owner's knowledge of such prein such dog, or the owner's knowledge of such previous propensity, or that the injury was attributable to neglect on the part of such owner. Such damages shall be recoverable by the owner of such cattle or sheep killed or injured in any court of competent jurisdiction. Where the amount of the damages claimed shall not exceed five pounds, the same shall be recoverable in a summary way before any justice or justices sitting in petty sessions under the provisions of the Act eleven and twelve Victoria, chapter lorty-three torty-three

2. Who shall be deemed the owner of the dog.—The occupier of any house or premises where any dog was kept or permitted to live, or remain at the time of such injury, shall be deemed to be the owner of such dog, and shall be liable as such, unless the said ocdog, and shall be hadre as such, unless the said oc-cupier can prove that he was not the owner of such dog at the time the injury complained of was com-mitted, and that such dog was kept or permitted to live or remain in the said house or premises without his sanction or knowledge; provided always, that where there are more occupiers than one in any house or premises let in sangitus appartments on a legislation where there are more occupiers than one in any house or premises let in separate apartments, or lodgings, or otherwise, the occupier of that particular part of the premises in which such dog shall have been kept or permitted to live or remain at the time of such injury, shall be deemed to be the owner of such dog.

Veterinary Department.

Dropsy of the Belly or Ascites.

Amongst grooms, cowmen, and shepherds, and even AMONGST grooms, cowmen, and shepherds, and even amongst indifferently educated farriers, and cow teeches "the water," in some of its varieties, is hetieved to be of frequent occurrence. In many of the rural districts of England half the mortality amongst the domesticated animals is thus ignorantly ascribed to the much dreaded water. Any heast, whose disorder is not very distinctly made out is tolerably certain to be set down as suffering from the water; whilst to say that a natient has died of this popular. certain to be set down as suffering from the water; whilst to say that a patient has died of this popular complaint is usually regarded as proof sufficient that all remedies were perfectly fruitles. The vulgar notion regarding the very general prevalence of "the water" doubtless gains credence from the fact that in all the cavities of the body—in the brain, in the pleura, around the heart itself, and within the cavity of the belly—there invariably occurs in all healthy animals a considerable quantity of this serous fluid, which serves to lubricate and prevent friction. This natural secretion is sometimes mistaken for a diseased accumulation, and has occasionally been diseased accumulation, and has occasionally been wittingly pointed out as such by those who wished to establish their own foregone conclusions, or to conceal their ignorance of the true cause of death.

Although by no means so common as the old books or the equally old-fashioned rural authorities would teach us, "the water," technically known as dropsy, does occasionally occur amongst the lower animals. Aged and pampered dogs suffer more frequently than any other veterinary patients, and exhibit most of the several forms of the disorder. Edema of the limbs or swelled legs is the variety most frequent amongst horses. Dropsy of the belly (ascites) and watery infikration of the subcutaneous areolar textures (anasarea) are tolerably common aliko in sheep and cattle. Dropsy sometimes comes on suddenly, probably like a flood of tears, or a smart attack of diarrhea; more usually, however, the fluid accumulates slowly. True dropsy rarely results directly from inflammation, in which the outpoured fluid is from inflammation, in which the outpoured fluid is comply, and apt to coagulate, contains creamy pus, or is sometimes stained with blood, as was explained in our article on this subject, published three weeks ago, dropsy generally depends upon some obstruction to the circulation—some disease of the heart, liver, kidneys, or other juternal organ, which retards the healthy current of the blood, and thus leads to distension of the weakened vessels, and oozing away of their more fluid contents. Sometimes the fluid is confined in a sack as in dropsy of the ovaries, uterus or liver; more commonly, however, it floats uncon-fined in one of the internal cavities, as in dropsy of the chest or belly. North British Agriculturist.

Milk Fever, Garget, &c.

To the Eliter of THE CANADA FARMER:

Sm,-I have a little "dearly-bought" experience to communicate to your numerous readers relative to the above often fatal and always troublesome diseases, which, I hope, may save some of them from purchaing their experience as expensively as I did. what I now communicate. Puerperal, or Milk Fever, is prone to attack only cows that are deep milkers and in good condition, and always either the first, second, third or tourth day after calving. The early symptoms of the disease are-loss of appetite, restlessness, wild, staring look, and a gradual, sometimes total, stoppage of milk: then the cow will show tremot and weakness over the loins, lose the power of her hind quarters, and soon after she will stagger, and eventually "drop." These several stages of the ever will sometimes occur within a few hours, and few cows, once down, ever get up again! I have, however, even then saved cows, but there must be sharp practice with the phlegms and physic. blisters, and so on. It is not my intention, however, to write at present of curative treatment, but pretentar, as I believe an ounce of the latter worth a pound of the former any day! And where the treatment as follows is adopted there will be few cases of Milk Fever Well, then, about a week before the cow's time is up I take four or fi, e quarts of blood, more or less, according to condition and repeat this when there is sufficient external cylclence that her time is near. Immediately after calving, a hot bran and linseed mash, and a few hours at erwards, 11 lbs. of Epsom salts, with a tablespoonful of binger, and if the physic does not operate in six hours, then another dose. Once the bowels are opened the co. is safe. Feed sparingly, and principally mashes, which I do not consider right without two or three pounds of ground oil cake in each padful. Such is my practice in cases when I fully anticipate an attack, and I have never yet seen a case of fever follow it. Heifers are not subject to the disease, but with them and cows in medium condition a dose of salts before and after calving will be found very far from bad practice. I have been often laughed at for proposing to blood a core before only in told it or proposing to blood a core before only in told it or proposing to blood a core before only in told it or proposing to blood a core before only in bad practice. I have been often laughed at for proposing to bleed a cow before caleing, told it was sure to dry her up, and many other sure things; but the only sure thing that followed was, she did not take milk fever, and did spendidly at the pail and otherwise. My neighbours at one time would say - give a sick cow! Ib of satts! I find homepathic does of simple medicines given to horses or cattle a nuisance, and set on the principle of planty or none. I have and act on the principle of plenty or none. I have given 4 lbs. of salts and 60 drops of croton oil in four hours, to a cow down with Milk Fever, and then only found any good effect.

Garget, or caked bag, is common to cows, young and old, and often spoils a cow in appearance and in reality - a dumb teat or two, and a tendency for ever after, from this loss, to a similar affection of the udder.
My treatment for garget, is simple and effective.

(Aq. Ammonia) spirit of bartshorn one part, with two parts oil, well rubbed on the parts affected, and all over the bag. I suppose doctors would call this trying to produce counter inflammation. Well, I had some crude notion of that sort; but however that may be, rub well, and three times daily; milk clean the trouble is soon over. I have been and often, and the trouble is soon over. I have been led to write to The Farmen just now, because I have been busy these few days attending one of my cows that was, in my opinion, a very fit subject for both diseases to fasten on. She is all O. K., however, and her bag reduced from the size of a bushel basket to its proper dimensions, the cow is giving twenty four quarts of milk daily. It is such cows that are most quarts of milk daily. It is such cows that are most liable to suffer, but I do not now look to premonitory symptoms of Milk Fever with that alarm which I felt years ago, after losing three as good thorough-bred Ayrshire cows as ever stood over a milk-pail.

PATRICK R. WRIGHT. Cohourg.

EPIDEMIC AMONG Houses in Paris.-The horses of the cavalry regiments forming part of the garrison of Paris are at present, it is said, suffering from a disease resembling jaundice, and which the veterinary surgeons call inappedence, because it deprives them of all appetite. The animal attacked with this disease generally dies after a few days' illness. This epidemic has been chiefly fatal among the horses of the Cuirassiers and Chasecurs of the Imperial Guard. The discount of the chiefly of some case has likewise appeared in the stables of some large establishments where a great number of horses are kept. The epidemic has not appeared outside

LICE ON STOCK.—Caleb Canfield of Livingston Co, Mich., writes the Rural that he has no such thing about him as lice on cattle, horses, hogs, hens, geese, neither ticks on sheep. His remedy is sulphur an ox, or cow, or hen, he gives a tablespoonful in their feed; to sheep less. He puts it in the coops of the fowls in small lumps. Feeds it once a month in winter, but not in summer, except to hogs. He gives his horned cattle and horses a spoonful of pulverized saltpetre in the month of March or April, and again, without fail, when he turns them out to grass. He also feeds his cattle and horses about a pint of flax-seed each once a month in winter. seed each once a month in winter.

TREATMENT OF HORSES FRET .- Mr. Gamgee, Sen.. in the Edinburgh Velerinary Review for August, says, "The day will, I believe, soon come when the people will not allow cutting instruments to touch the soles of their horses' feet. I have said in former papers that the wall, sole and frog are so constructed that they mutually co-operate, and that the intermediate horn, which I have shown, is secreted between he wall and sole of their union, is also required to be left entire; but, by the prevailing custom of cutting the hoof, these substances which in their nature are rebounding springs, are destroyed or greatly impaired. The custom of thinning the sole, and likewise of keeping that part always in cow dung, or other wet soddening material, under the name of 'stoppings,' was brought into vogue after the establishment of our first veterinary schools."

Loultry Nard.

Shall we Dose the Hens with Lime?

"See to it that they have a plentiful supply of nded oyster-shells, bone, old mortar, or lime in form, always accessible." Who ever read an sount on noultry-keeping that ded not give in the on poultry-keeping that did not give, in sub-the above directions? Yet I maintain that tion on which this direction rests is false. essay stance. stance, tion on which this direction rests is false, the assum, argument runs about thus:—Roultry The popular a shells of their eggs; hence they need have lime in the 's of their eggs; and as oyster-shells, lime, and mortar collime, and mortar collime, and mortar the minor premise, but there proposition; eggs consumers are consider another proposition; eggs consumers are considered and the proposition are the constant and the proposition are the proposition and the proposition are the proposition and the proposition are the proposition are the proposition are the proposition and the proposition are the pr Suppose we consider an bumen, hence poultry retain a large quantity of a. very inconsistent advanquire albumen; therefore, cate of the lime theory will can of feeding them with albumen, a gers into the comparison with a comparison with argue with every substance that enconservers start the question." But henseat the lime; and to eat it? the question." But hens cat the lime; and to cat it?"
cat it, why does their instinct teach them to cat it?"
I reply -"But hens also cat fragments of "ock and pottery, how do you dispose of this fact? "Ot and answer is, "the yeat these to use in the griading and digestion of their food." Well, I reply again, can at y

one prove to me that the lime they cat is not for this purpose and for this purpose only? Meanwhile, I will undertake to prove the affirmative. First, let us dispose of the bone. In the shells of eggs, the lime exists in the form of carbonate of lime, while the lime ists in the form of carbonate of lime, while the lime in bone is phosphate of lime, and by up process short of a miracle can the phosphate be changed into the carbonate: it would be just as easy to change iron into gold Where is the sense, then, of feeding bone of animals for this purpose? Yet, while the great majority of poultry fanciers do this, the number is not small-who make it a matter of principle to burn all the bones of the family waste, and pulverise them, and mix the powder with meal, and thus dose the poor fowls all the winter long, telling the public at times very complacently how the eggs come in under this process! So much for the hone. Now for the this process! So much for the bone. Now for the oyster-shell, mortar, &c. The males eat, proportionately to what they consume of other food, as muc. of this lime as the females; yet no one, I think, will maintain that their egg-forming instincts call for it, or that their egg-laying propensities are increased by it. Let their egg-laying propensities are increased by the law is examine this question from another stand-point. Can there be a parallel instance produced in animal nature where food is naturally taken in a crude mineral form? The minerals necessary for the structure and due performance of the functions of animal life are contained in the animal and vegetable combinations which we consume tions which we consume.

In some districts, cows are seen to fight over a bare hone. This is because the phosphate element is wanting in the exausted soil of the pastures of such regions, and hence the vegetable product on which the cows fred cannot supply the necessary amount of phosphate. That such an appetite is unnatural, the result of the abnormal cravings of disease, the thin and rickety condition of such cattle demonstrates. To be convinced how unnatural such food is, consider the convinced how unnatural such food is, consider the conditions of fowls and birds which live wild on the vast primitive formations of the country where carbonate of lime, in any mineral form, from the scarcity of snails over many of such areas, is almost unknown. Eggs are as readily produced by the feathered tribes that dwell there, and are contained in as fine a structure of lime as comes out of the pet poultry-house of

ture of lime as comes out of the pet poultry-house of any funcier.

Why do not farmers feed phosphate of lime to their cows, as every quart of milk drawn from them contains some of this mineral? Because the Creator was too wise a planner to make any such crude work necessary. He combined the portion of phosphate necessary for the full performing of her functions in the structure of the vegetable food of the animal, and made that most wonderful laboratory—the stomach and its organs, capable of extracting it from such food. So with poultry: the grain on which they feed contains in itself the proportion of carbonate of lime necessary for the formation of the shell of the egg.

If the reasoning thus far is not satisfactory, then let

If the reasoning thus far is not satisfactory, then let me say to some old won't-be-con-laced, for every instance you will bring forward where the eggs of poul-try lacked a shell, when not fed with lime fodder, I will bring a parallel one where they formed perfect shells, month after month, without having any access during the period to a particle of such fodder. A soft shelled egg indicates some disease in the ovarian system of the fowl; and, in such isolated cases, it is barely possible that lime, as fed, may act as a medi-

If I am asked, "Why, then, do poultry eat lime?" It I am asked, "why, then, do pourty eat lime."
I answer, for the same reason that they eat fragments of stone, to give them the means of grinding their food. Now, every miller knows that the harder and sharper the stone the better it grinds. The instincts of poultry teach them the same truth, and they will select in preference the hard sharp particles. They of poultry teach them the same truth, and they will select in preference the hard sharp particles. They also seem to have a fancy for anything small but showy in colour; will hence occasionally eat buttons and the like. It is true they devour egg-shells when fresh, but it is also true that such shells have quite a coating of animal matter adhering to them; and the hens, it may be noticed, will eagerly turn them up with their bills, to get access to the little sediment of this, which oftentimes is found in the bettern of the this, which oftentimes is found in the bottom of the shell. For the same reason, fragments of fresh bone may be of advantage. The fragments of stone and the like voided with the manure of fowis are always the like voided with the manure of fowis are always worn smooth; all the sharp angles are gone. Here, then, is a hint. In supplying griading materials (that is the term, not food) to your poultry, supply them with such as is hard and contains plenty of sharp angles; hence reject old mortar, burned bone, or egg shells, and beach gravel, and give pulverised clam shells, pounded raw bones, pounded crockery, pounded stones, and the like. If I am correct in my position, Mr. Editor (and I presented substantially the same in an agricultural address several years ago), then I trust the old theory will no longer be dingdonged about the public press, as much a reflection on the good sense of the community as it shames the scientific progress of the age—JAMES J H. GREGORY. Marblehead, hass., in Albanu Country Gaulleman. scientific progress of the age.—James J. H. Gree-Marblehead, Alss., in Albany Country Gentleman.

Entomology.

Canadian Butterflies.

Some time ago, a box containing some rather dilapidated specimens of butterflies and moths, was left at our office by "Mr. Alex. Pirrie, of Brooklin House, Brooklin, C. W.," with the request that we should describe them in The Canada Farmer. As there was nothing particularly note-worthy among them, all being very common and well-known species, they were neglected for some time; we now, however, subjoin a list of them, with the plants upon which their caterpillars usually feed. For descriptions and figures of these, as well as many more of our Canadian species of insects, we must refer our correspondent to " Harris' Insects Injurious to Vegetation,"-new edition, edited by C. L. Flint. Boston: Crosby & Nichols, 1862,-a most valuable work which ought to be in the hands of all our educated farmers and gardeners who are interested in the ravages of our insect foes, and wish to know the best means of guarding against them.

The following are the species we received :-Papilio furnus (Tiger swallow-tail butterfly), caterpillar feeds on the choke-cherry, and other species of Prunus.

Papilio asterias (Black swallow-tail), on the carrot, and other umbelliforous plants.

Colias philodice (Clouded sulphur), on clover and rarious trefoils.

Danais archippus (the Archippus), on the milkweed (Asclepias).

Argynnis cybele (Silver-spotted fitillary), on violets and other flowers.

Vanessa antiopa (Cambernell beauty), on willow. Sphinr cinerca (Ash-coloured hawk-moth), on lilac. Saturnia polyphemus (Eyed-emperor moth), on elm, lime, &c.

Catocala cerogama (Yellow-underwing moth), on black walnut.

We shall always be happy to receive specimens of insects, from our friends in various parts of the country, and give what information we can about them; but as much of their value and interest depends upon the mode in which they are collected and preserved, especially in the case of the more fragile and delicate orders, we beg that a little care may be exercised in this respect, and attention be paid also to packing. To assist those who take an interest in this department of natural history, we have determined upon publishing shortly, brief directions for collecting, setting, and preserving insects. Should Mr. Pirrie intend continuing to collect insects, he cannot do better than become a member of the Entomological Society of Canada, whose head-quarters are in Toronto.

Insect Destruction and Bird Preservation.

To the Elitor of THE CANADA FARMER:

Sir,-Since coming to this country, twenty years ago. I have observed a great decrease in the number of our small birds, many kinds of which have almost disappeared; and to this I attribute principally the increase of the grubs and flies which infest our farms and gardens.

I believe that some of our legislators have taken the matter in hand and introduced Bills into Parliament for the preservation of the smaller kinds of birds, by preventing the shooting at and killing of them. I do not think that legislation can do much to remedy the matter; few men are wanton enough to exterminate, and it is only to those few that the law

birds are his principal food, when they can be had, also carrion; and when he cannot find those he has recourse to grain and roots. I have frequently watched him during summer, when the birds are busy with their family affairs, searching every tuft of grass and bush in quest of a dainty morsel for his own family, in the shape of a fresh egg or an unfledged robin or sparrow. If farmers would turn their attention at this time of year to destroying the nests of crows which may be built in their woods, their numbers might be easily diminished, much to the farmer's bers might be easily diminished, much to the farmer's benefit, in the consequent increase of our small birds and the decrease of mischievous insects.

and the decrease of mischievous insects.

The nests of crows can be easily discovered at this season, as they build before the trees come into leaf. They are also very easily trapped or poisoned. To the sportsman the crow is also a great enemy, and I have no doubt but for their numbers we should find ten times the amount of game birds in this country that we do now. I have known a tract of country in the Highlands over which I have walked for days without seeing more than one or two grouse, and in the course of fir years, after the proprietor began to encourage the trapping of vermin, principally the grey crow, one gun coald with ease kill from fifteen to twenty brace of birds in a day. Other varieties of birds which bred with us increased in the same proportion.

NOR. THOS. MACLEOU.

Toronto, 25th March, 1865.

The Tiousehold.

Boot and Shoe Grease.

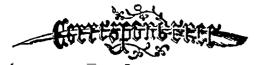
THE Shoe and Leather Reporter says hog's lard is admirably adapted to secure to leather both pliability and impermeability to water; train oil after it dries up, renders the leather brittle, Hog's lard ren-ders the leather perfectly pliant, and no water can penetrate it. It is especially suitable for greasing boots and shoes; but in the summer seasons an eighth part of tallow should be melted with it. It should be laid on when in a melted state; but no warmer than one's finger dipped in the mass can bear. When it is first applied to a boot or shoe, the leather should be previously soaked in water, that it may swell up, so that the pores can open well and thoroughly absorb the lard. The liquid lard should be smeared over (to be water proof) at least three or four times, and sole leather of congression. over (to be water proof) at least three or four times, and sole leather oftener still. Afterward the lard remaining visible on the outside should be wiped off with a rag. By this means you have a water-proof boot or shoe, without the annoyance caused by most stuffs of penetrating the leather and greasing the stockings. An occusional coating of hog's lard is also to be recommended for patent-leather boots or shoes, as it prevents the leather from cracking, and if it be not rubbed in too strongly the leather will shine just as well after the grease has been applied.

Bean Sour .- "A Bachelor of 30 years" wishes a receipt for bean soup. Get a wife that knows how to make it .- Eureka, in Country Gent.

The St. Louis Republican says that after experimenting for five years, Mr. Robert Moore of Bloomington, Illinois, has discovered a method of crystalli-zation, by which the syrup from Imphee and Chinese sugar cane can be advantageously reduced to sugar.

Sweet Cider.-A. M. Ward, Hartford Co., Conn., writes: "After years of 'fussing' with cider to 'make it good' I have this season found the short road to perfection. Took cider direct from the press, heated nearly to a scald over the fire, returned it to a barrel, and have since made daily use of it with great satisfaction."—American Agriculturist.

TOMATO SAUCE.-Mrs. G. Dowdeswell, seeing a wish expressed in the last number for a recipe for making tomato sauce, begs to mention a very simple mode adopted by herself for some few years past, by which she can have the same prepared by the cook as re-quired, fresh at any time. The tomatoes are gathered perfectly ripe, free from cracks or bruises, and are gently wiped with a soft cloth, and placed in a wide-mouthed jar. Some vinegar, having been boiled and allowed to stand until cold, is then poured over them, sufficient being used to entirely cover them. The jar is then covered with wetted bladder, and the tomatoes would app'y The mischief is entirely attributable to our common black crow, whose numbers have also largely increased among us, and which is quite a different bird to the rook of the Old Country. The crow here is entirely carnivorous, and will only feed upon roots and properties of the control of the cont



WILD PIOEON ROOSTS .- "H. P. H. asks any of your readers inform me where a wild pigeon roost, within three or four hours of Toronto, can be seen."

WILD LUTINES .- A correspondent asks :- "Where could I get the seeds, say a peck or a bushel of the wild lupine, which grows so abundantly in the bush. Last year there were thousands near the Humber flats."

NATIVE BEES .- "A Bee-keeper" strongly recommends his neighbours to be satisfied with the Canadian native bee. The honey they make is delicious, and abundant in quantity.

Indication of Spring. A correspondent writes, April 12:-" A wasp was picked up ten days ago on the side walk ; and our Camberwell Deauty (Varepa antiopa), and the common tortoise shell have also been taken."

WEIGHT OF BONE-DEST .- "Peter R. Lamb & Co.," of Torontc, write :- "We beg to inform your correspondent "Calx," that bone dust averages from 40 to 45 lbs. per bushel, according to the dryness of the bone for general purposes, and what would be the price of ton See Advertisement."

A LEGAL QUESTION .- "J. H." of Epsom, writes that it was his intention to raise a few acres of flax this year, but being a tenant farmer, his landlord has no- importation or otherwise." tified him that he cannot sell the flax fibre, since he with Mr. John Snell, of Chingacot, y. Mr. F. W Stone, of Guelph, Mr. Fock, of Waterdown, or some other off the premises. "J. H." writes to know whether the stalk of flax is legally considered straw?

WINTER BARLEY .- A correspondent writes from Lambton:-"I would like information from you o.] some of your subscribers, where winter barky can be obtained. We had some of it here about thirty years ago, but at that time there was no market for it here, and no means to export it, and being kept in a dry place too long, it lost its vitality."

Oil Indications .- " X. Y. Z." writes :- " Your correspondent who wishes information about oil indications, many obtain it by writing the Am. News Co. troleum Wells.' It tells what Petroleum is, where it is found, what used for, where to sink wells, and how, some to the waste paper basket. and is a complete guide-book and description of the oil-regions of Pennsylvania, Western Virginia, and Ohio."

-" Would it be a good plan to apply bog carth in its raw state, or in a compost. We have swamps close at hand, both salt and fresh water, would it make a good top-dressing for hay land."

Ans.-It is better to compost the muck before using it, whether as a top-dressing or in any other

Fort Eric, says :- "I shall feel obliged by your informing me whether you think that a patent for the complete exclusion of the Bec-Moth from the hive, at about the cost of three-quarters of a dollar for each them. This they readily promised to do. It was as hive, would meet with such general demand as to follows:—Go down into the meadow by sunrise each guarantee my embarking in the trouble and expense! of obtaining the patent, and what would be the ex-

How to Cultivate Sprouum -" Alex McGibbon," of Brownsbury, writes :- "Could you let me know, through the medium of THE CANADA FARMER, how to move the freekles."

cultivate sorghum; also, the time for cutting and how to manufacture it into sugar "

Ave -Our correspondent will find his enquiries partially enswered in an article elsewhere in this issue, entitled "All about Sorghum." We shall endeavour to give falser particulars about syrup and sugar making before the time comes for these opera-

MISSING N MBLOS OF THE CANADA PARMER -" J W. Thomson," of Roseville, says :- "There are two numbers of The Canada Farmer which I have not received. Please mail them to me."

Ans .- We shall do so willingly if our correspondent will tell us which two they are.

THE HALDIMAND CHEAP LANDS .- "C. Sutton," R. R. Depot, Brantford, says :- "My last Canada Farmer has a letter from Aunicoia, stating how cheap are improved farms in his county (Haldimand). As that is just what I want, I am sorry his name and address did not appear. If you will furnish them in your next, or drop a line at my expense, you will confer a favour."

Avs.-We have not the name and address desired. but if " Aurtcola" will furnish them, we shall cheerfully insert them in our next, as we have a number of enquiries like the above.

IMPROVED STOCK WANTED .- "James Holliday." of Scotch Line, Perth, enquires :- " Can you inform a young Club where they can obtain improved stock or about 50 bushels to the ton, and is worth \$25 per 1 and 2-year old cattle? Our Club has only been in operation six months, our object being 'To discuss matters of agricultural interest, to procure superior kinds of seed, and to improve the breed of stock by

breeder of improved cattle.

"WHY WAS IT NOT PUBLISHED?"-"W. H. M. writes to enquire about a communication for THE Can ADA FARMER which has not appeared in our columns. He says. I am not aware that there was anything a it improper for publication. Will you please let me know why it was not published? 'Our impression is that the letter in question was on a subject on which we had received a number of communications, all of which could not possibly appear. And we take this pportunity of saying to corre-pondents, whose pro tions, many obtain it by writing the Am. News Co. ductions do not see the light, that it is never from New York, for a work entitled 'Petroleum and Pe- want of appreciation or gratitude on our part, that any are laid aside. The multitude of letters we receive, compels us, however reluctantly, to consign

READ'S SUBSOIL PLOUGH .- "Charles Penner," of Kingston, writes :- "In your last number I perceive 'C. West' wishes 'An Old Subscriber' to send him a STRAWBERRY CULTURE .- "Wm. Strowger," of New- description of Read's Subsoil Plough. I expect I am castle, writes, at the request of "many persons," for the person alluded to, as I addressed you on the subinformation as to the cultivation of the strawberry, ject. If you refer to my letter you will find I sub-He says:-"There are many prevailing contrary scribed myself 'An Old Subsoiler,' not 'An Old Subopinions and methods in this vicinity, but the plant is seribed, as you state. If 'C. West' will pay the seldom brought to any great degree of perfection."

Ans.—See article in our Horticultural department.

Use of Muck.—"P. Murson," of New Carlisle, asks: subso I six inches deep in the kind of soil he describes. The beam and handles can be made either of wood or iron; mine are wood.".

REMEDY FOR FRECELES .- "D." writes from York Township as follows :-- "In accordance with your request and that of your 'fair correspondent, who would be yet fairer,' I herewith send my mother's remedy for freckles-one that is warranted 'not to BEE-Moth Preventive.—" George Nettle, Sen.," of injure the skin.'-Over fifty years ago, I had sisters who, in the presence of their mother, were regretting that they had freekles in their faces. Mother told them she knew a certain care, and if they would morning in the month of May, and wash your faces in the dow from the grass. Do this, said she, and I will engage you will, by the first day of June, have no cause to complain. Neither did they."

Another correspondent says .- "If 'M. P.' will wash her face with fresh buttermilk she will find it re-

MAPLE SUGAR MARING TACORT BY THE CANADA FARMER .- "Millar Fleming." of Kincardine, County of Bruce, in the flush of his joy at having learned how to make first-class maple sugar, writes :-- " As maple sugar making is now about over, I hasten to let you know that before we got THE CANADA FARMER amongst us bushwhackers and clodhoppers, the maple sugar we made used to be as black as chony; now it will compare with muscovado. The full directions given by you have taught us 'how to do it.' A'l my neighbours wish success to THE CANADA FARMER, and when British America becomes the third power of this terrestrial sphere, may it circulate to every corner !" It is, as everybody knows, very pleasant to bave our friends cherish sweet thoughts of us, and spontaneous testimonies like the above to the usefulness of Tax CANADA FARMER are both gratifying and encouraging.

CHEAP CANADIAN LAND-" ROTTEN OLD ENGLAND." -"Wm. Cashmore," of Wilmington, Del., U.S., writes: "Will 'Agricola, Cayuga, Co. Haldimand,' please to give us more information, through THE CANADA FARNER, or correspond with me by letter (unpaid), as to where to get cheap cleared land. I was very sorry to see in 'W. R. Carter's' letter in your Number of March 15th, the expression- But this is in rotten old England, where they maintain all manner of oldworld things' But I got more than compensated in your extract from the Brantford Courier."

Ans.-Our correspondent should have taken "W. AN.—Our correspondent should have taken in.
It. Carter's" Linguage in an ironical sense, for such was manifestly its design. No one, we are persuaded, has a more profound respect for "Old England" than the writer of the sentence which has annoyed our Delaware correspondent.

Self-Rakino Reapers, &c .- "A Subscriber" writes from Hull as follows:-"Would you kindly inform me what machine you would recommend as a combined reaper and mower, one which lays the grain properly, and is a self-raker, and of the lightest draught. The machines in use here are not good icapers, and require too much care in raking off the gram. Please also give the name of the best maker of horse cultivators, with price."

Ass .- We must refer our correspondent to the Report of the Judges at the last Provincial Exhibition, as our best reply to his enquiries about self-raking reapers. In reference to cultivators, we may state that most of our agricultural implement makers manufacture them. Our correspondent does not state whether it is a one or two-horse cultivator about which he inquires, and we recommend him to communicate with the nearest respectable implement

FLAX MILL WANTED .- "John Duncan," of Moore, County Lambton, writes :- "I wish to call the attention of the capitalists of Canada, to the want there exists in this county of a flax mill, as I believe there is not a county in Canada West that is better adapted to its growth, as regards the quality of the soil, and the nature of the climate; and I think also from the extreme difficulty we have experienced in maturing a full crop of wheat, for some years past, on account of the midge, the farmers here would turn their attention to other and surer crops, if there was a market for it, as there would be if there was a flax mill in the county. There is not one, so fer as I know, nearer than St. Mary's, county of Perth, and I think it would not pay to send it so far in the straw, so that if some of the monied men in the county will start one he will have the district all to himself. I have raised a little for my own use, for a number of years, and am convinced that there is no difficulty in growing it to any extent."

How to Raise a Thorn Hedge .- "W. C. S.," of Haysville, gives the following directions on this subject :- "Cull the haws the last week in October or the beginning of November, when the leaves have falten off the trees; put them into a box or barrel and leave them out in the air exposed for twelve months. In England they bury them in the ground for a year, until the seed is partly decayed. Then sow the seed in rows two feet apart, and when they come up thin them to about two inches apart. In two years they will be large enough to transplant. Cut off the top of the

thorn, leaving it about six inches long, dress Ne roots. In clayer or wet situations, raise a bank two reasens why perk should be dear in the meantime feet high, faced up with stones or sods, and a drain by the side of the bank to e .rry off all stagnant water. Plant the thorns on the top of the bank, about six inches apart. On light, porous soils, plough a ridge July, 400 lst wook in August, and 400 lst week in nine feet wide where you intend to plant your hedge, draw a straight furrow with the plough on the centre of the ridge, and plant the thorns in the furrow. In fed hogs excepted." six years from the time that they were transplanted they will be strong enough to turn bush cattle."

NEATS' FOOT OIL-" A. S." of Muskoka, writes: "In your next number will you please insert a good receipt for making Neats' foot oil."

Axs.—The following paragraph from a recent number of the Germantown Telegraph will perhaps be of use to our correspondent.

"The hoofs are chopped off, and the other portions are cracked and boiled thoroughly. From the surface of this boiled mass, about one pint of pure neatsfoot oil is skimmed, which is unsurpassed by any other oleaginous matter for harness, shoes, &c. After the oil is taken off, the water is strained to separate from it any fatty particles that may remain, and then it is boiled again, until upon trying, it is found it will settle into a stiff jelly. It is then poured into flat-bottomed dishes, and when cold cut into suitable sized pieces. It hardens in a few days, and you will then have a very fine article of glue, free from impurities of every kind, sufficient for family use for a twelve month. By taking a portion of this glutinous substance before it becomes too thick, and brushing it over pieces of silk, you will have just as much court-plaster as you desire, inoderous, tenacious, and entirely free from those poisonous qualities which cause (as much of the article sold by apothecaries does) inflammation, when applied to scratches, cuts, and sores."

AGRICULTURAL EMPORIUM .- "W. Weld," of Delaware, writes :- " Having frequently experienced the inconvenience, loss of time, and expense of travelling about, to Fairs, Agricultural Exhibitions. breeders' farms, and seedsmens' establishments, in search of stock and seeds of the best kinds, and often not being able to procure what I wanted, I suggest for the benefit of agriculturists generally, that an Agricultural Emporium be established, for the sale of stock, seeds, and implements of the best kinds. Let a Company be formed, a stock book opened, a suitable tract of laud purchased near a railroad; let the ground be properly laid out, and suitable buildings erected thereon; let a connection be formed with the principal breeders in Europe and America. let correspondence be had with some of the principal farmers in different parts of the country, for the purpose of disposing of such stock or seeds as might be had in the different sections, &c. Such an estab lishment, I am convinc d would be a safe, and profitable investment, if properly managed, and would be highly beneficial to the country generally, especially so to the vicinity where it might be established. So sanguine am I of its success, that I am willing to invest the whole of my property in it, if money could be had at a moderate rate of interest."

LIVE HOGS.—Our friend "Samuel Nash." of Hamilton, sends us another letter on "the old subject."

"Farmers will do well to keep in mind, that fat hogs will undoubtedly command a high po te during the coming summer for curing in ice at Hamilton: 5 cents per 100 lbs. live weight, may I think, be safely calculated on from 1st of June to 1st of November. But some may ask, what guarantee have we that 5 cents will be secured to us? Such a question would seem natural enough, and strictly speaking no abso lute guarantee can be given. Pork like other commodities, is of course, subject to fluctuations in price. This much however can be said, that the stock of American bacon, is at present very small in England and the price high, viz., 52s and 53s stg. per 112 lbs., and no large amount can possibly arrive there be-

fore next December, and these appear to be good And I would be perfectly willing to back an opinion based on these reasons, by entering now into contracts for 400 hogs 1st week in June, 400 1st week it. September, weight, 200 to 275 each alive, price 5 cents per 100 lbs., delivered at Hamilton-Distiliery

ABOUT THE STOCK .- "A Subscriber" writes from Orono :- "I have read THE CANADA FARMER from the beginning, and I do not remember of having read anything about that garden flower, the Stock. Though I am a follower of Tubal Cain by profession, ye I am interested in horticulture, and the progressive movements of the day. About two years ago, bought some Stock seed, and a few flowers from that seed were double. The question occured to me, how are those double ones produced? After thinking a while, I resolved to experiment on the single ones After selecting some four or five young ones, I watered them with manure water, and pinched off al. he flowers but turce on one, and two on another, and one on another, also all the other shoots, thinking that by running all the sap into a few pods, I should have a few vigorous and healthy seeds that would certainly produce double flowers. The pods were fine ones indeed, twice as large as the ordinary ones But the flowers from them proved to be single ones. During the time that I was experimenting on them I conversed with several seedsmen and florists, and they assured me that I should have fine double flowers. You may suppose that I was disappointed in the matter. Now, Mr. Editor, the question is, how are those monstrosities, the double Stocks, produced THE CANADA FARMER is a good medium through which to instruct each other on all such points. Some people understand this matter, for we can buy seed that will be mostly double."

The Canada Farmer.

TORONTO, UPPER CANADA, MAY 1, 1865.

The Late Col. E. W. Thomson.

Ir is our painful duty to record the death of this traly estimable and useful man. This sad event occurred very suddenly on the morning of April 20th, the in telligence of which has east a deep gloom over a wide circle of friends and acquaintances throughout the Province. Mr. Thomson, after taking breakfast as asual with his family, left on foot to attend a meeting of a sub-committee of the Board of Agriculture in this city, and after having walked about three miles be was seen to grasp the fence, and almost immediately to fall; life became extinct in a few minutes. The cause of this awfully sudden visitation was probably apoplexy or the bursting of a blood vessel in close relation to the vital organs of the brain or heart. Hr Thomson had enjoyed his usual good health till with in the last few months, during which time the symp oms were not at all regarded as of a serious nature ; and on the very morning of his death, he said, before leaving his family, that he felt better, and left in cheerful spirits. In half an hour he was a corpse! thus affording another illustration of the oft-quoted words: "In the midst of life we are in death.'

Mr. Thompson was a native Canadian, having been born in Kingston, in January, 1794; he had consequently but recently completed his 71st year. His father emigrated from Scotland to the then colony of New York before the American Revolutionary War in the outbreak of which he took up arms in the ser vice of his king, and came on military service to Up per Canada, where he subsequently settled. Beinman of energy and sound judgment, he obtained for

McKay, of Quebec, also of Scotch origin, and had everal cons. one of whom, Mr. Hugh Christopher Thomson, became a member of the Provincial Parliament, and was the first Warden of the Provincial Penitentiary, but died before he entered on the duties of his office. The elder Mr. Thomson's family, after some time, left Kingston and settled in the neighbourhood of Toronto, which was then only an insig nisicant village.

The subject of this notice during the troublous times of 1812, when only a youth, volunteered his services in defence of his country, and soon won the confidence and esteem of his superiors for his high soldier-like qualities. He received a commission for valiant services at the battle of Queenston Heights, and was selected, with Ensign Charles Denison, to receive the silk colour presented to the regiment by the ladies of York, now Toronto. He was for many years a full colone, of militia, and Col.-Commandant of the Fifth Military District of Upper Canada.

But Col. Thomson was better and wider known as steady and energetic promoter of the most important and peaceful art of agriculture than for his military services. He was one of the most active of the few who formed the Home District Agricultural Society, one of the ex liest in the Province,—and he served s the President or Vice-President thereof for more than twenty years. He stood in a similar relation to he Provincial Association, and became its first Preident in 1816. He was the following year elected igain to the same office, and it is not too much to say hat that prosperous organization, which has done so nuch for the agricultural and mechanical arts of Jpper Canada, owes more to Col. Thomson than to my other individual, however zealously and successully many others have laboured in its behalf. At the subsequent organization of the Board of Agriculture, he was unanimously elected its President, a position which he continued to hold till the period of his leath. Those who had a personal knowledge of the practical working of the Board, will readily and tratefully acknowledge the time and assiduous attenion which the late President devoted to his duties, which were uniformly discharged in a faithful, efficient and conciliatory manner.

Col. Thomson belonged to a class of Canadians, low almost extinct, who, notwithstar ling the absence in their early days of the means of liberal education, nanaged to educate themselves, and by their perevering industry, force and integrity of character, aid securely the foundation of the domestic and civil life of the colony. He was always the consistent and realous advocate of our broad system of national ducation, and his mind was ever open to welcome ight, from whatever source it might come, that would end to dissipate the darkness which hung around oth the science and practice of agriculture. In 1836, he was elected a member of the Legislative Assembly, for the second riding of the county of York, low the county of Peel, and evinced much energy and a truly patriotic spirit, during the critical time of the rebellion, in restoring peace and order on the basis of constitutional freedom. In politics he may he said to have been a liberal conservative, and as a nagistrate, to have enjoyed the confidence and steem of the public. At both World's Exhibitions in England, in the years 1851 and 1862, he was appointed by the Government as one of the Canadian Commissioners, and faithfully discharged his duties, with no small advantage to his native country. He held also several other offices of trust and importance, mong which may be specified, the Wardenship of the Home District Municipal Council, on its first organization, for several years. He was President of he Farmers' Mutual Fire Insurance Company, and a Director of the Canada Landed Credit Company

Col. Thomson was thrice married. First, to Miss Terry, of Scarborough, by whom two sons and one laughter survive him. Second, to Miss Ketchum, laughter of Jesse Ketchum, formerly of Toronto, himself a good position in society. He married Missenow of Buffalo, by whom he had one son, who sur

rives,-and thire, to Mrs. Chrisholme, daughter of of the kind. For the College of Cirencester, to the the late Dr. Lee, of London, C. W., by whom he students of which the lectures under notice were leaves one daughter.

The Colonel's vacant place will long be painfully felt, at several important Boards, as also his absence at the gatherings of many local agricultural societies, to which also be devoted considerable time and attention. Being a good practical farmer himself, and having great experience in organizing and working agricultural societies, that numerous and important portion of the community had great respect for his judgment and ability. With his own hands he at one time or other performed every operation on the farm,

from the chopping and barning of the forest, to the perfectly cleared and level fields, and well stocked pastures of the most advanced colonial husbandry. He was among the first to import and advance the are now such striking characteristics of the advanced state of Canadian agriculture.

Mr Thomson, at various times, undertook large contracts on several public works of the Province. amongst which may be mentioned the Rideau Canal, the Credit Harbour, and the Welland Canal, all of which were executed faithfully and ratisfactorily

The writer of this hasty and imperfect sketch of the life and character of Mr. Thomson, whose intimate friendship he enjoyed for nearly eighteen years, would direct the minds of bereaved relatives and sorrowing friends, under so solemn and sudden a visitation, to the hopes and consolations of our common christianity. Mr. Thomson was an attached the advance of agriculture, and the ground of a member of the Church of Scotland, and occupied an important position in that branch of the British Church in Canada. He took an active part in the establishment of Queen's College University at Kingston, in connection with that body, and was for some years one of the trustees of the institution. He was also for many years a Vice-President of the Upper Canada Bible Society. He closed a long, exemplary and most useful life, suddenly, but we cannot say prematurely . his work was done, and he breathed his last, it may be said, while on his way to perform a public duty. A long train of appreciating and sorrowing friends followed his remains to the grave and deposited the a law well grounded hipcoff blessed immoration.

"Agricultural Education."

The above is the title of a small volume recently published by Longman & Co., London, and contain ing a series of lectures delivered at the Agricultural College, Circucester, England, by the several professors connected with that institution. This little work is designed as an answer to the question. "What constitutes a sound Agricultural Education? this enquiry, these lectures furnish a very full and comprehensive reply

The distinction of originating the first establishment for imparting a special education for agricultural pursuits, belongs to Switzerland. The agricultural school of Hofwyl, at which over 350 pupils were educated, was founded by Fellenberg, In 1 0%. Since then, numerous institutions have spring up on the continent of Europe, and in France there are several supported by the State - Throughout Prussia, there is scarcely a province that does not boast its agricultural school, and model tarm, and, indeed, dispersed over Germany, as well as Russia, are educational institutions, directly under the supervision and support of the Stat , in all of which, with slight differences of detail, agriculture is practically and theoretically taught. In Ireland, during late years, a highly successful system has been introduced by the Commissioners of National Education and at the present day, there are no less than 166 farm schools, with land attached, varying from 2 to 150 acres in extent, on that island. England has altogether been distanced in this race of improvement and even at the present time cannot boast of a State institution of the land." Whilst every long the land to recture a before us, in the following words.

"The grand aim of the agriculturist, is to form the largest quantity and the best quality of food, vegetable and animal, at the least cost, consistent with them hearty successful and animal, at the least cost, consistent with the permanent good condition of the land." Whilst every

delivered, owes its origin in 1845, and its support since then, entirely to private enterprize. history of this Institution has been one of continued usefulness and prosperity; and the farm attached, which contains 500 acres, has acquired a high reputation among home agriculturists, and is in every way prosperous.

The small volume before us contains six elementary lectures, delivered to the young men attending this college, at the beginning of the term of 1863. As might be expected from an introductory course, the scope of the lectures is not extended to practical details, but confined to a statement of the broad principles by which the agriculturist must be guided, if he expects success to reward his exertions. Beyond breeding of pure stock, of the various kinds, which the attainment of this individual success, however, the question of education, as applied to farming, is shewn to have a wider and more important application; for it is now admitted, by the most thoughtful and enlightened minds, "that the continued prosperity of a nation depends mainly on the condition of its agriculture. Impressed with this conviction. we make no apology for inviting the attention of our readers to these lectures

It is, perhaps, hardly necessary to refer to the causes that have operated to attract attention to the expediency of having a special education connected with farming pursuits. The mere influence of increasing population, necessarily gives an impulse to more exact inquiry into its guiding principles, has been furnished by the spread of intelligence, and the inpid advance made by other sciences, on which all true agriculture must be founded. At the same time, the increasing popularity of farming as a pursuit, has of late years drawn a more enlightened class into its ranks, while the spread of publications connected with the subject, the formation of boards and societies for its promotion, and the general activity of discussion which has ensued, have all tended to draw towards it an amount of attention heretofore unknown. It is painful to observe, in space of all these combined influences, that Canadian formers, in too many instances, join the march of improvement with extreme relactance, and at a small state. With some notable exceptions here and there, which gladden the heart, the uncient strongholds of routine stoutly maintained. The old fashioned, now and ever shall-be. practical English farmer, still has representatives in Canada, and the antiquated idea that less information and intelligence are required for agriculture, than for any other pursuit, still has its credulous disciples amongst us. By this class, any mention of science, requiring thought and reflection. is dismissed as mere theory, which, being the opposite of practice, must of course be worthless as it knowledge were a burden, and weakened the strong arm, or impaired the keen eye!

At the same time, this supposed monopoly of prac-tical knowledge, by the unread agriculturist, is purely imaginary, and the very opposite of truth. imaginary, and the very opposite of truth. Every protession in existence, at some time of its history, has had to defend itself from the same absurd supposition. Of course "in the infancy of every art, practice necessarily precedes science. To do, comes before to know; and in this way the parent has been enabled to teach the child, though he himself had worked out his own knowledge without the aid of a teacher." Now, the progress made in agriculture or any other art denaits on the sciences which govern any other art, depends on the sciences which govern it. And "all the accidents of natural circumstances under which it is pursued, however varied in appearance." ance, are equally subordinate to natural laws, which it is the province of science to unfold." To persist, therefore, in a course of mere "routine" farming, with the soil half tilled, the same seed sown, and the same crops following each other, year after year, is practically to deny the value of the aggregate experience of men of similar pursuits, and ignore the

progress of science and improvement.

The key-note of the whole subject is struck by one of the lectures before us, in the following words.

agriculturist will readily endorse the former part of this self-evident truth; there are too many who practically forget that "the permanent good condition of the soil" is of any importance. They forget that "there is no plant which spares the ground, and none which enriches it—that the success of a second crop depends upon the previous one-and that it is by no means a matter of indifference in what order plants are cultivated. The art of cultivation is not, as a casual observer might imagine, simply mechanical. Although the turning and breaking of the soil, the scattering of the seed, and the harvesting of the ripened crop, are works of bodily exertion, going on from year to year, and demanding the lowest exercise of reason; yet the occurrence in every climate, of years of deficient produce through the mere influence of seasons, and the gradual exhaustion of the soil by a continual repetition of the same crop, through neglecting to restore the elements of fertility, render unusual remedies and precautions necessary, which it is the legitimate province of science to unfold. No language is more familiar to the farmer than this. Every respectable journal of agriculture, like the CANADA FARMER, abounds with practical suggestions, (see CANADA FARMER, vol. I. p. 81,) founded on science and experience, to assist the agriculturist in restoring the elements of productiveness to exhausted soil; while, at the same time, they point out methods of manuring and rotations of crops, to avert thoruinous consequences which inevitably follow bad farming. In a field so wide as this, embracing every variety of soil, and diversity of season and climate, it would be unreasonable to expect perfect unanimity in the views of all writers on the subject; and farmers too generally overlook this consideration when they sweep-ingly denounce "book-farming." They should not forget that "there is still a great extent of variety, uncertainty, and inexactness in the experience of the farmer, and it would be no proof of the efficiency of the teacher, or of the excellence of a plan of teaching, that it pretended to uniformity, consistency, and precision.

Perhaps we cannot more appropriately close our remarks, than by giving our readers an abstract, which must necessarily be brief, of the methods so successfully pursued on the Cirencester College farm. It is nece, sary to premise that the soil is very variable and unequal in its productive qualities; and that the system of management adopted is executed with the greatest vigilance and care. On the better por-tion of the land the Norfolk four-course system is followed, as far as practicable. Beans follow wheat, whilst on the lighter land, peas take the place of a root crop. By this course, an interval of six years occurs between the clover crop, and in these days of clover sickness this is desirable. In the management of the poorer soils the custom of the Cotswold farmers is not ignored-to suffer the clover plant to re main a second year, thereby obtaining a large breadth of valuable sheep food, and causing a saving of labour. The cultivation of the land is regularly and systematically carried out. No sooner is the wheat removed from the stubble than the plough is set to work tearing it up to a depth of 12 or 14 inches. The following is a fair statement of the proportions and description of crop grown annually upon this farm :

Wheat, after clover, 80 to 120 acres. manured before spring, 8 tons.

Wheat, after turnips, 20 acres: corn spent on lands.

Barley, after turnips, 80 to 100 acres: corn spent on lands

Oats, after turnips, 15 to 20 acres . corn spent on lands. Beans, after wheat, 10 to 20 acres: manured in winter, 12 tons.

Peas, after wheat, 10 to 15 acres: manured sometimes, 10 tons.

Early turnips or rape, 15 to 20 acres: artificial manure. 3 cwt.

Grey top turnips, 10 acres: artificial manure, 3 cwt. Mangold, 15 acres. manured with dung, 10 tons; remainder artificial manure, 3 cwt.

Vetches and rye, 15 acres: manured 10 tons.

The custom has been to top dress the wheat in

early spring with 11 cwt or more of nitrate of soda, a treatment which has considerably increased the yield; while the cleansing of both cereals and roots is vigorously persevered in, whenever it is possible to hoo them.

Pomological Convention.—The Montreal Horticultural Society, proposes holding a Pomological Convention, during the Exhibition week of the Lower Canada Agricultural Board. They propose inviling all the Horticultural Societies throughout the Province to unite in making an Exhibition of fruit. Wo wish them hearty success in this enterprise, and hope the Societies of Canada West will give them

New Publications.

"A PRACTICAL treatise on Consumption, Bronchitis, Asthma, and kindred diseases, by J. Rolph Malcolm, M. D., Toronto,"

A copy of this little work now lies before us, and we cannot but approve of the aim of the author in his endeavour to "instruct the people ' in the earlier symptoms of those diseases which are devastating the whole civilized world to so great an extent. A statistical table on page 21, informs us that " in Canada, one-fourth of all the deaths from disease are from these." We were not aware that the percentage was so large; but from the facilities for obtaining information on the subject, possessed by the author, we have not the slightest doubt of the accuracy of his statement. Not the least interesting chapter, is one on the "prevention of consumption" in the several on the "prevention of consumption" in the several periods of infancy, childhood, youth, and adult ages; a chapter which all mothers would do well to study, as "prevention" is universally acknowledged to Le "better than cure." The chapter on the "treatment of consumption," compares the effects of the various methods of treatment "through the stomach," "through the skin," and "through the lungs," by medicated inhalation. The author holds that the last mentioned one is by far the most effectual, inasmuch as by it the one is by far the most effectual, inasmuch as by it the remedies act directly on the diseased part, which indeed appears very rational. It we may judge of the success of the practice from the testimonies of those who affirm that they have been cured by it, and by the numbers who are daily patronizing it, a revolu-tion must be going on, in the opinions of the public as to the "curability of consumption." Although farmers are shown by the treatise to be less liable than any other class of men to an attack of consumption, we would recommend them all to read this publication, as it contains much really valuable instruction.

REPORT OF THE HAMILTON HORTICULTURAL SOCIETY -The Fifteenth Annual Report of this Society has come to hand, and we make a few extracts as follows:-

"The three Exhibitions held during the past year under the auspices of the Society, were attended with the most gratifying results. A considerable inorcase having taken place in the membership, the Directors were enabled to add materially to the amount of prize money offered for competition. And as the amateur members have of late years shown an increasing interest in the Society's operations, and a growing desire to avail themselves of the opportuni-ties afforded them of entering for prizes, it was thought that the largest additions should be made to the amateur department of the prize list. A very considerable addition was consequently made in this department, and the result is shown in the entry books of the Society, which now contain the names of many additional amateur exhibitors. Some of the members of your Board have had the privilege of examining the manuscript of an unpublished work by Mrs. Traill, on the Native Trees, Shrubs, and Flowering Plants of Western Cenada; and they were very much pleased with the amount of research displayed by the telepted subtrees, and the year pleases and the year places. pleased with the amount of research displayed by the talented authoress, and the very pleasant and interesting way in which she conveys a vast amount of valuable information on a subject of so much importance to the members of this Society. A suggestion was at one time made to your Directors that they should take some steps for the purpose of having this work published, but nothing of a definite nature was over agreed to. They trust, however, that the project will not be allowed to drop, and they recommend the subject to the careful consideration of their successors." of their successors.

"ALL ABOUT PETROLEUM! -We have received two numbers of this weekly journal, which is devoted to the development of the petroleum interest. It is published by C. Pfirshing & Co., 31 Liberty Street, New York, at \$5 per annum.

"THE TOBACCO LEAF."-This is a new weekly, published by the same firm as "All about Petroleum." It is intended as the organ of the tobacco trade of the United States, and is furnished at \$1 a year.

Spring and Autumn Sale List.—We have received J. Fleming's annual Sale List of Dahlias, Verbenas, Fuschias, Geraniums, Gladiolus, Bulbons Roots, select green-house Herbaccous and bedding-out Plants, Grape-Vines and Small Fruits. The collection advertised is very large, and embraces many new and choice things.

Spirit of the British Agricultural Press.

THE JONAS WEBB MEMORIAL .- At a recent meeting of the subscribers to the Jonas Webb Memorial, it was resolved to erect the statue in Cambridge.

THE ART OF WALKING.—A series of articles on this subject has been appearing in the Mark Lane Express under the title, "On the Mechanical Process of Biped Progression."

Boxes. -Liebeg recently protested against England's greedily consuming the bones of Europe. In the eleven months ending Nov. 30, 1864, 62,895 tons of bones (whether burnt or not, or as animal charcoal), were imported into the United Kingdom.

CROSS BREEDING .-- As regards cross breeding of cattle, Mr. Spooner thinks that there is a direct pecuniary advantage obtained by it; inasmuch as increased size, a disposition to fatten, and early maturity, all follow in its train.

SIGNS OF A PROPENSITY TO FATTEN.-Prof. Tanner states that in cattle a sound constitution and a disposition to fatten economically is shown where the head is rather small in proportion to the rest of the body: if it is well set in the neck: if it has a fine tapery muzzle; a bright, full and placid eye; graceful, well-turned horns, with the ears small and fine: the neck should be thick, and not too short; it should have a graceful look, and taper uniformly to the head; yet not be too thin behind the ears. The head of the bull should be, of course, more masculine than that of the cow, more erect, finely set on to the neck, and arched at the crest.

BRITISH AGRICULTURAL IMPORTS .- There were imported into Great Britain, during the year 1864, 179,507 head of cattle, being 69,854 more than in 1863; and 496,243 sheep, or 57,455 more than during the previous year. Of hops the imports were only 98,656 cwt., against 147.281 in 1863; of butter 1,054,617 cwt., against 986,708 in 1863; of cheese 834,814 cwt., against 756,285. Eggs were imported to the number of 335} millions in 1864, against about 267 millions in 1863. There were imported in 1864, 203,809,011 lbs. of wool, against about 174 millions in 1863—an increase of nearly 30 million lbs. As to wheat (flour and grain included) the imports of 1861 were equal to 196,956,514 bushels; of 1863, 208,560,256 bushels; of 1862, 317,520,352 bushels.

ALTERATION OF CLIMATE. - We learn from Bell's Weekly Messenger, that at the last meeting of the Meteorological Society, Mr. Glaisher gave some interesting lacts relative to the mean temperature prevailing during certain periods. From these, the striking and curious conclusion is drawn, that the climate of Britain has changed in the last hundred years, that the mean temperature of the year is now two degress higher than it was 100 years ago; that the month of January is nearly three degrees warmer; and that frosts and snow-showers are of very much shorter duration, and less in amount. The present season would seem to indicate that we are going back to "old style."

VALUE OF COW DUNG .- Thack, in his "Principles of Agriculture," says that (1) One cow or ox will yield 10 loads of dung for a two-horse waggon. (2) One young ox or cow will yield 5 loads of dung for a two-horse waggon. (3) One horse fed in the stable yields 15 loads of dung for a two-horse waggon. (4) One horse turned out to grass yields 71 loads of dung for a two-horse waggor. Allowing, as this authority does, 20 loads of cattle dung per acre, 18 of horse dung, and 20 of mixed manure, we find an ox yielddung, and 20 of mixed manure, we find an ox yielding manure for half an acre, a young ox or cow will yield manure for quartyr of an acre, while a horse fed in the stable will yield manure for five-sixths of an acre. Taking the value of farm yard dung as the standard at 100, Professor Johnston estimates the value of the mixed—i.e., solid and liquid—exerction of the cow at 98, of the horse at 54, of the pig at 64. The liquid exerction of the cow at 91, solid ditto 125, liquid exerction of the horse 16, solid ditto, 73. A cow fed in the house voids 60 lbs. of liquid exerction cow fed in the house voids 60 lbs. of liquid exerctæ in the day.

"Goggles" in Sheer.—The following is from the Report of the Veterinary College, Camden Town, England:—"Two sheep, subject to the disease known in Sussex by the vulgar term of 'goggles'—a name probably given from a peculiar expression of the eye of the animal, especially in the advanced state of the disease—have also been received. The affection proved fatal in both instances after the animal had been about a month in the infirmary, and although a most searching post morten examination was insti-tuted in both cases, the precise nature of this singular

has been used as synonymous with vertigo, the malady in which a hydatid exists in the brain of the animal; the cause of the vertigo, however, is patent; but that of the other disease is still hidden. Many practical agriculturists assert that the disease is hereditary, and, if once introduced into a flock, can never be eradicated except by the destruction of the whole tock, they also hold the opinion that the disease occasionally passes by the immediate off-spring, but shows itself in the second or third generation. These facts and opinions prove the necessity of further research; but this rannot be carried on successfully without the co-operation of flock masters, since a long continued series of experiments and observations may be requisite; the governors therefore would be glad to invite through the intervention of the council, the attention of sheep owners to this subject, in the hope that some may be found who will afford the requisite facilities for investigation."

THE SPRING AND SUMMER OF 1865 .- A weather prophet writes Bell's Weekly Messenger, under date of March 25, as follows :-

' The winter being unusually long and severe, the public will now be anxions to know what sort of a spring and summer is likely to follow. I have studied the weather nearly 40 years, and have kept a register apwards of a quarter of a century, and beg to offer the following opinion of the approaching season. Cold, with prevalence of northerly and easterly winds, will, I apprehend, rule for a considerable time. The mean temperature of several weeks to come will be very much below their proper average. April will, therefore, prove a cold month. It is my opinion that we shall have a very hot summer—maximum and mean temperature superior to any we have experienced since the year 1859. Of the probable rainfall I do not attempt to give any opinion. The British rainfall is so irregularly distributed that no anticipatory calculations can be made with any degree of reliance."

POULTRY AND EGG PRESERVING COMPANY .- An enterprising individual in England, believing that poultry and eggs can be profitably produced for the market on a large scale, has issued a prospectus and plans for the formation of a company. Should this project be carried out, some light will be thrown on the much-debated question, "Can poultry be bred and eggs furni-hed profitably?" A correspondent of the Collage Gardener comments on the scheme as follows, and we confess that we are very much of the same mind:

"My own opinion, gathered from personal observation, is that a large number of fowls cannot be kept in one spot without serious detriment to their health and profitable employment; that the profits arising from them do not increase in proportion to the number kept; and that no appliance, however ingenious and scemingly well adapted to the purpose, can possibly compensate for the loss of the natural parent. The instances of the chicken during the most critical period of its existence are feeble; it requires not only the skeltering warmth of the mother's wings, but the mother's watchful care, her affectionate warning, advice and instruction. No artificial contrivance can provide these. We may hatch eggs, but we can-not successfully rear chickens by machinery."

THE "TARNISH" OF MONEY-MAKING OCCUPATIONS.-The Principal of the Circnester (Eng.) Agricultural College, in his opening address, recently, while taking the position that the study of the dead languages was not essential in the education of the young farmer, went on to say :

To assert this, is not for one moment to deny that, for the higher forms of success in all employments, the long-established and recognized basis is the best—it is merely to say polish is not the chief object in middle-class education; indeed, it may be questioned whether scholarship and polish are not to a certain extent alien from all money-making occu-pations. So soon as ever the scholar descends to the tradesman, you will detect the tarnish in his deporttradesman, you will detect the tarmsh in his deport-ment, it is vain to endeavour to disguise the fact. Educators, however high their attainments, carry the impress of their calling wherever they go; and those having the softer and more cultivated dispositions know well, that to revert to the classic tastes of youth, and to reassume the garb of the true gentle-man, the money-make's tools must not be in their possession for too long a period."

We are glad to find the North Beiligh Assignithmics

We are glad to find the North British Agriculturist strongly dissenting from this course of remark, and contending that there is sometimes to be observed an innate gentlemanly bearing which academic training does not always impart, while the pedantry of the college occasionally becomes so dictatorial as to be offensive. Any view of things which in effect assumes that the tradesman and farmer cannot be gendisease remains to be ascertained. The term 'goggles' themen, descrees to be sconted.

The Apiary.

Another Good Bee-hive.

In No. 7, vol. I of this journal, we gave two illustrations, and a pretty full description of a bee-hive made by Mr. P. A. Scott, of this city, on the principle of the celebrated Langstroth bive. Many who have purchased the hive in question, speak highly of it, and there can be no doubt that any hive constructed on the moveable-comb principle, is a vast improvement on the old-fashioned hive. This principle admits of a variety of modifications, and there are now several styles of hive before the public, which. though agreeing in the moveable-comb feature, differ in various details. We rejoice to note an increasing interest in bee-culture, not only in this country and the United States, but also in Britain. This is very much owing to the increased facility of management which the moveable-comb hives afford. In addition there has been much advance in knowledge of the habits of bees, and of the best means of handling and managing them. Intending bee keepers have now every advantage within reach. There are books which give the theory, hives which place the beeunder observation and control, bee-hats, bee gloves smoke-pipes,-and plenty of examples of success, to encourage beginners. Honey is so delicious a luxury and the ways of bees are such an interesting study that we are only surprised that every family has no one or more hives.

We have now the pleasure of presenting our readers with two illustrations of Thomas's Moveable-comb Observing Bee-bive, which has been already alluded to several times in these columns, and for which the proprietors claim the following advantages over the Langstroth hive.

1st. It is not so broad and shallow, but deeper, and so allows the bees to carry their stores far, her from the entrance, and at the same time form a natural cluster, which is from eight to ten inches in diameter. In the Langstroth hive, the bees cannot form a natural cluster without coming in contact with the bottom board where it is too cold. Says Langstroth. "a hive, tall in proportion to its other dimensions. has some obvious advantages;" Honey Bee, pp. 329. 330. Says J. S. Harbison, "many eminent apiarists bear testimony to the superiority of deep hives over those that are low and shallow:" Bee Culture, p. 132.

2nd. The top piece of the comb frame is of a shape better calculated to guide the bees in building their combs straight.

3rd. The comb-frame bearings are far superior. being beveled to a sharp edge, on which the framerest, which prevents the bees from gluing them fast

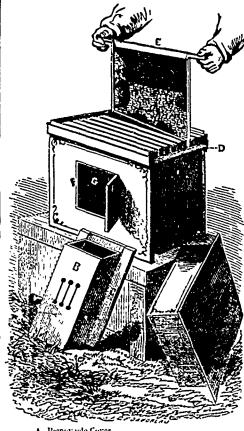
4th. The comb-frame stops are a great advantage over the Langstroth hive, which has nothing to hold the frames in place

5th. The flat projecting ends of the comb-frame are also a great advantage, as the apiarian is able to take hold of the projecting ends, to raise the frame out of the hive, instead of taking hold of the frame in among the bees.

6th. The revolving bands are an additional point of superiority: First, by allowing the bee-keeper to remove the frames with far less difficulty, and in one quarter the time. Secondly, as soon as the bees commence to work in the honey box, they may be turned down, forming a lighting board, giving to the bees a short route to the honey box, whereby they are enabled to lay in honey much faster.

7th. The swinging and adjustable bottom is superior. allowing the hive to be cleaned of all dead bees o. miller grubs that may be on the bottom board.

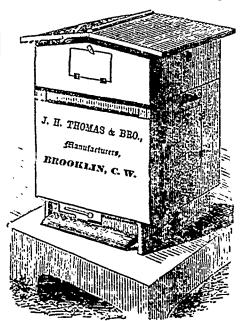
Our first illustration conveys a good idea of the interior economy of this hive, and the list of advantages just given, will enable all to understand what is aimed at in the mode of construction. Our second illustration shows the outward appearance of the Double ing in the centre the becs are shut in. Fourthly. The



- A. Removaele Cover.
- Honey Boy for surplus honey.
- Honey Board on which the honey-box recta
- Revolving Band.
- Comb Frame removed.
- F Observing Door.
- G. Glass.
- H. Robber Stop-metallic or tin alida

Boarded or Self Protecting Hive, which although the same as to inside arrangement, differs from the Single Boarded Hive in the following respects.

First. The frames are deeper, (as the hive is a little larger), which allows the bees to carry their stores still farther from the bottom board. Secondly. The



front end of the horrom board is stationary, and a bee passage of two inches only is allowed. This is con sidered a great improvement, the moth not being so tikely to get into the hive as the small passage, found to be sufficiently large, will be better guarded -Thirdly The metallic or tin slide is also an improve ment, by sliding one way the drones are effectually shut out, sliding the other allows them to enter, stand

Double Boarded Hive has a hollow wall all around the bees, made by putting an outer layer of boards over the Single Boarded Hive. In summer they are cooler, no combs will melt down in a Double Boarded Hive. This has been proved. They are warmer in winter, and better for wintering out of doors. The hive best for all purposes, is a Double Boarded Hive without observing doors. It has the metallic slide fastened with thumbscrews for purposes above stated. The slide is also useful to prevent robbing, as the passage may be contracted so as only to admit a single bee at a time. Henceforth all the hives made by the Messrs. Thomas will have this last provision, and be interiorly of the same size as the Double Boarded Hive here represented.

Aural Architecture.

Farmer Cheeseman's New House.

FARMER CHEESEMAN had toiled away for fifteen years upon his farm, and had laid by enough to build him "the new house" which had been the goal of his aspirations, for all those years. It must be a fine brick one, with a flat roof, such as a cousin of his had built in the neighbouring town. So the plan was made and the workmen set about it in earnest. There were all sorts of "graining" done in paints on the various doors and window casings, and claborate, crooked stripes of red, green and yellow adorned the sides of the fire places and mantels, supposed to represent veins in marble. It would have puzzled a geologist, though, to tell exactly where to classify such a specimen. The parlor had a ceiling finely ornamented with a wreath in stucco work, and the windows were shaded by paper curtains, whereon was a brave picture of some famous general, mounted on a dashing charger. They were somewhat scant in length, so they were tacked on to the casing about a quarter of a yard from the top, so that they should be even at the bottom.

"Them are the dandies," said the complacent mistress of the mansion to me, as she was going over the house to show off its beauties. I fully agreed with

The rooms were many and of ample size, but a great perplexity arose when it was all completed and furnished-it was all too good to be used-a very unfortunate dilemma, as the old weather-beaten house they used to occupy had been torn down. However, a remedy could be found. It would not cost a great deal to build on an addition that would be mean enough to live in. They could furnish it coarsely, and then it would answer to cook and eat in, just as they used to do, and save the new house. It never would do to let the children and hired men take their meats in that fine, arry dining-room. All the new would wear off in a little while. So the plan was carried out, and the family toasted away all through the summer beside the great cooking 6:ove, and ate from the pine table, and sat in impainted chairs, while the great state room adjoining was as empty and useless as if it had been in California.

I do not doubt but every reader knows some such economist; and those who do not go to quite such an exicut sometimes show the same penny-wise spirit, in keeping all the best of the house and possessions for chance visitors a few times a year, while the family comfort and pleasure are little thought of

Oh! throw open those dark and useless parlois and let your children have the benefit of a pleasant sittingroom. Do not expend a great sum for one or two expensive articles that might buy a dozen to add to the real comfort of your family. Do not save up the best chambers for company and think "the children can sleep anywhere," but give your boys and girls nice, any tooms, if you have them. Nothing will serve more to make them cherish the memory of home with pleasure, and it will do much towards belging them

o form good habits of order and neatness.

Do not have so great a regard for "the eyes of the people," which "cost us so much," as for the happiness and welfare of your family. Who should you like to have share and enjoy your good things, if not those who are dearest to you of all others?—Working Rurmer



The Hemlock.

Ir is often objected when tree and ornamental planting are urged, that these objects though beautiful and desirable are costly, and that the money needed for them is not at hand. But many forget that for some of the choicest ornaments of the lawn or shrubbery, no outlay whatever is required. In many localities, there are to be found in a wild state, shrubs and trees fitted to grace the garden of a Prince. Among these may be named the hemlock, decidedly the handsomest of the Evergreen Family. Its graceful appearance, the delicate green of its foliage, its varied colours when the young shoots push forth, and its hardiness, commend it to the attention of all who have a home to beautify. It looks well singly or in groups, and as it bears both shade and pruning well. it is an excellent tree for screens and hedges. It grows rather slowly when first transplanted, but once established it flourishes luxuriantly. Removed from care to make it bear the change remarkably well. Though it does best in moist land, it soon accommodates itself to ordinary soil. We would say to our readers try the hemlock.

Perennials.

Tuis class of plants do not require the expense of purchasing, or the trouble of planting year by year. and there ought to be a good proportion of them in every flower garden. The Gardener's Monthly gives the following list of six kinds, flowering during the summer months, to which many others may be added, -and among them the Phloxes and Sweet Williams

ought by all means to have a place.

"While caring for the annuals and grasses, we hope the bardy berbaceous plants will not be forgotten. the hardy berbaceous plants will not be forgotten. We give a list of six good ones, for flowering near each of the months annexed. April—Iberis sempervirens, Double Daisy, Phlox subulata, Dicentra spectabilis. Snowdrop, the Forget-me-not or Myosotis palustris. May—Polemonium reptans, Omphalodes yerna. Funkia alba, Geranium sanguineum, Fraxinellas, Aquilegia canadensis. June—Achillea tomentosa. Dodecathon Mendia, Funkia cerulea, fris of sorts, Lychnis fulgens, Pentstemon rosea. July—Zauchneria Californica, Wablenbergia grandiflora. Spirœa japonica. Potentilla atrosanguinea, Lychnis Chalcedonfca, Campanula persicifolia alba. August—Achillea Ptarmica. Clematis revoluta, Chelone barbata, Delphinium formosum, Lythrum salicaria, Liatris bata. Delphinium formosum, Lythrum salicaria, Liatris spicata. September—Sedum popufolium, Double Dwarf Sunflower, Anemone japonica, the Lilies. Dracocephalum Virgineum, Asters. There are besides a great many other beautiful species, and which others might think even more beautiful than those we have named, but these will at any rate form the nucleus of a good collection."

"MY GRAPE VINES, AND WHEN THEY RIPERED." A correspondent of the Horticulturist supplies the following brief note of his grape experience last sea-80D :-

"Hartford Prolifio-ripe 25th August. This variety is popular with my family and friends, and a good bearer-drop easy.

"Rebeccu—ripened at the same time. This grape is a favourite; a beautiful leaf, early, very pleasant, and prolific; skin rather tough.

"Concord—ripe Sept. 4th. This variety, I think, is one of the best. An abundant bearer, large, and

good flavour.

"Delaware—Sept. 8th. Best of all. Enough said.

"Union Village—Sept. 10th. A pleasant grape, but its location is poor with me.

"To Kalon—Sept. 20th, ditto.
"Diana—Sept. 20th. Stands with us next to the Dolaware, and the last season did the best.

Isabella-Sept. 28th. Fine exposure; good.

"Catawba-does not ripen well with us, though they bore well the past year, and we enjoyed them after the others were gone.

"Under the best circumstances, for out-door cul-ture, I tried the Black Hamburg and Brinkle, and I am quite satisfied, that under glass is the place for

"My other vines. Iona, Israella, Lincoln, Adiron-dae and Allen's Hybrid, have not come to bearing."

Cultivation of the Strawberry.

Norming can be easier than strawberry culture. It only requires the knowledge and observance of a few very simple rules. The first is: Get good plants. It is folly to bestow care and culture on a worthless berry. Many persons, to save a little outlay, beg a few plants, without any assurance that they are worth growing. The result, often, is disappointment, and a prejudice against this choice fruit. There are some varieties of the strawberry that are good, but require fertilizing with other varieties. But there are enough perfect berries to render it unnecessary to be troubled with any of this sort We have tried a large number of strawberries, but have banished from our garden all, except the following :-Wilson's Albany Seedling. Triompho de Gand, Vicountess Hericart, and Great Austin. The first-named is, perhaps, the best for general culture. It has only one fault, and that is a slight acidity, but even this is hardly perceptible, if the berry is lest until dead ripe. The Great Austin stood the frost and drouth of last season better than any other kind in our possession. There are various opinions about the Triompho and Vicountess. We can only speak in the highest terms of them both. especially the latter. The best mode of planting out strawberries is very concisely given, together with some illustrative cuts, in the following extract from the Annual Register of Rural Affairs for 1865 :-

"Early in the spring is the best season for setting out strawberries. If the work is done well they will bear a moderate crop the same season, and a heavy one the next. The best plants are the well-rooted

common way.

runners from last autumn. They should be well taken up, so as to secure all the fibres, lifting the roots out with a spade and shaking the earth carefully from them; if pulled severely by the hand the roots will be torn Fig. 1.—Strawberry plant, set off. The older and dead out with a dibble, or in the off. leaves should be cut off from

the plants, and the roots trimmed to about two and a half inches long. For ordinary field culture they

may be set out with a dibble (fig. 1), care having been previously taken to immerse the roots in mud, to prevent drying. But, for garden culture, it is better to spread the roots out like the frame of an umbrella (fig. 2), and Fig. 2—Strawberry plant, set them in a hole broad by spreading the roots.



enough, with a small mound in the centre on which



Fig. 3.—Hole-for setting the spread roots of a strawberry plant.

the spread roots rest, and form a cap, as shown in fig. 3."

The after cultivation consists chiefly in keeping the runners cut off, except those you wish to propagate. and destroying weeds. No weed should be allowed to show its head in a strawberry patch. Each straw-berry plant should be kept distinct, and no matting together allowed. For garden culture, beds four and a half feet wide, containing three rows, are very convenient. The plants should be about a foot apart in the rows.

The Lawton Blackberry.

To the Editor of THE CANADA FARMER:

Sin,-I saw in your issue of March 1st, an article in relation to the Lawton Blackberry, and having had some experience in its cultivation, I will give it you. I have fruited it here for the last five years, without any winter protection, and during that time have not failed to get a crop, though that of last year was rather small (about 300 quarts from a little over half an acre), owing in part, to the extreme cold of the previous winter, which froze the ends of the plants, and the drouth of the summer. The year before, I had from the same patch, which was just beginning to bear, about 2,000 quarts, and I am fully satisfied that with good cultivation in an ordinary season, 5,000 quarts could be raised to the acre. In regard to its bardiness, I think if properly trained, it is a good deal hardier than the peach. I should think as a rule, it would be safe to say that wherever the peach tree (to say nothing of its fruit buds), would stand the winter, the Lawton would flourish, for unless the canes are killed you are pretty sure of a crop of fruit; and I consider them as hardy as the wood of the peach, if they are cut back as they should be, and make to mature. My method is to select 3 or 4 of the thriftiest canes which come up in the spring, and train them up, keeping all the rest of the young shoots cut down,—and about the first of September, head these in three or four feet from the ground, thus checking the sap and sending it into the side branches, checking the sap and sending it into the side branches, making the plant more stocky, and maturing the toot. I have always found a ready sale for the fruit; the price averaging here at wholesale, from eight to ten cents per quart. The only objection to it as a market fruit is that it will not bear transportation for, when fully ripe, and when not ripe, is too sour for the palates of most people. Many have condemned it the first trial on this account. It turns black before fully ripe, and they have picked it green and pronounced it not fit to cat, when if they had waited until it was quite ripe, they would have called waited until it was quite ripe, they would have called a delicious. I think it could be made profitable for market, near any large town, where it could be picked and taken in the same day. At all events, I think any one who has a piece of ground where peach trees will grow, would not regret raising a few for his own use,—for it is, to my taste at least, when fully ripe, a luscious fruit, and is generally acknowledged very wholesome, besides it begins to ripen when there is very little other fruit, and lasts till frost comes. A. M. S.

Grimsby, C. W.

Flower Farming.

Take a pair of compasses, and strike an arc on the map of the French shores of the Mediterranean. making the Fort of Antilles the centre, open the compasses to Nice, and strike around-the highest point will be Grasse. Then, descending again to the shore in an opposite direction, the compass leg will mark the fringe of the Estrelle hills, and the wellknown town of Cannes, with Lord Brougham's villa. From Nice to Cannes it is twenty miles, and from Grasse to the shore ten miles. The three towns form a geographical triangle, having the tideless blue sea for its base. Within this triangle is the valley of the Flowers Farms. There are flower farms in England also, but they are insignificant in comparison with those of France. Elsewhere flowers are ornaments charming accidents. Here they are staples. They grow like grass or corn, like potatoes or mangel-wurzel. Here bloom the jasmine, the orange, the violet, the tuberose, the jonquil, the rose, the cassia, not as in our beds, not as horticultural gardens, not as gardens, but as fields. Broad acres of colour flash under the hot sun. The atmosphere is heavy with perfumes when the snows are melting on the mountains, and the gurgling Var is rapidly growing into roaring torrent. Here we enter homesteads not of golden grain, but of lavender sheaves; not of cheese, but of olive oil; not of beer and elder wine, but of orange-flower and rose water in vals; not of clotted orange-flower and rose water in vals; not of clotted cream, but of jasmine and violet butter. It is like a country of the "Arabian Nights." You expect the dark-oyed peasant to answer you in lyrics, and the very dogs to bark in tropes. You are oppressed with the prodigality of splender. The soil is so fertile that, to borrow Douglas Jerrold's witty conceit, if you tickle it with a hoe, it smiles with a flower; or, as the natives say, if you plant a walking-stick, the forule will blossom.—"Dr. Septimus Piesso," in the Cornhill Magazine. Cornhill Magazine.

Grape Vine Culture, No. VI.

BY W. S., WOBURN.

THE SORTS TO PLANE.

THERE are many varieties of native vales, some more or less suitable to various localities, from the extreme South to the furthest limit of northern latitude where the grape will grow profitably limited number of these sorts are more particularly suitable for our northern climate. The Fruit Grower's Association of Upper Canada have agreed on four sorts as the very best, and we approve of their selection In The Canada Farmer for April 1, 1864, page 93, we described several of those suitable for the Northern States, as well as Canada, and in order that new subscribers to The Farmer for the present year may have the information, and that old subscribers may have it at hand, we repeat the brief descriptions there given of the four varieties approved by the Association:

CLINTON.

This is a vigorous and exceedingly hardy and productive variety. Bunches medium size, very compact; berries small to medium; colour black; flesh rather acid, with an exceedingly brisk and sprightly flavour; ripens middle to end of September, two weeks earlier than the Isabella.

CONCORD.

Bunches and berries very large, almost black, thickly covered with beautiful bloom, very hardy, second only to Delaware, and exceedingly vigorous and productive; much less liable to mildew than either the Isabella or Catawba. Similar in quality to the Isabella, but ripens two weeks ciriler.

DELAWARE.

This is exceedingly hardy, early and productive; perhaps the very best of all the hardy American varieties it is very delicate, sweet, sprightly, and of high vinous flavour. It has been known to stand the severest northern winters, beside which the Isabella and Catawba were killed out. It ripens fully three weeks earlier than the Isabella.

HARTFORD PROLITIC.

Bunches large and compact; berries large, round; skin thick and black, very juicy and sweet. An exceedingly hardy and productive variety. Ripens two weeks before the Isabella.

WHO SHOULD PLANT.

Every person who owns land should plant more or less of the grape vine who may desire a profitable crop, and who may at the same time be willing to bestow the necessary care and attention to their cultivation. But we remind all such, that to produce the best results constantly, vigilance will be required. Nothing must be left to chance, plans must be matured in advance; the location must be a proper one; the ground must be very carefully prepared, extreme depth of trenching and very heavy manuring is in most cases unnecessary, in many instances injuriouthere must be a proper exposure to the sun, proper shelter provided against tearing winds, sedulous care must be exercised in mulching, to prevent frost injuring the roots in winter, and to ensure proper humidity during the drouths of summer. The great-est care and pains must be taken to train, pinch, and prune correctly. And as no written instructions, without some actual practice will be sufficient, with at least the majority of mankind, it is recommended that caution be exercised not to plant very extensively, until after a few years practical experience may be had. Of course mistakes, losses, and failures more but ample success will have to be encountered in the first instance, but ample success will finally reward untiring painstaking, and indomitable perseverance if there be those who may think all these conditions too hard to be attempted, we do not advise such persons to try grape growing.

Culture of the Cranberry.

its cultivation is much more easy, economical and successful in the dry soils of Private Gardens, Market Gardens, and in field culture, than in the usual clamsy way in bogs and meadows. It requires no more moisture than is contained in all arable land. The plantations at this establishment are on dry sandy loam, and the yield the last season, under my improved method of culture, was over 400 bushels per acre, or more than double the ordinary crop in meadows. The fruit is larger darker colored, more solid, and of better quality than the wild fruit, and ripens earlier and more thoroughly, being exposed to the sun and air. It also keeps better. The great danger of being cut off by September 110sts is enarely obviated in my air—It also keeps better.—The great danger of being cut off by September frosts is enarely obviated in my method, as the fruit nestles in among the leaves, entirely protected from the frosts, so that it may remain on the vines till there is danger of the ground freezing. Common early frosts do no injury whatever Fruit lett on all winter is equally good with those "Spring Cranberries picked in the bogs in April and so at background." ly esteemed.

THE CANADA FARMER.

The Cramberry is a hardy trailing evergreen shrub, found both in swamps and on high land, but is most productive on upland, sandy loam, well enriched. Although it is commonly thought that it naturally grows only in wet land, nothing is more common than to find luxuriant patches of the Cranberry in every variety of upland soil. Cole, in recommending its cultivation in his excellent "Fruit Book" says:

Where a gravelly knoll has been reduced for a road, we saw excellent cranberries growing on a dry, hard and poor soil. On another spot we saw fine fruit by the roadside on a very poor, dry, hard soil." He adds, "with these cases of good crops under every disadvantage, it would be surprising if cranberries should not grow well on high land, under good cul-

In England and in many parts of Europe, according to Loudon, our American Cranberry has been found in gardens for nearly two centuries. A recent cor-respondent of the "Genesic Furmer" says: "My cranberry garden is on sandy loam. Before being cleared, it was timbered with hemlock, beech and maple, after being cleared the natural growth was sorrel, June grass and white clover. When cultivated, it produced good and white clover. When cultivated, it produced good creps of potator and oats. My opinion is, that almost any soil that is not inclined to grass over without seeding, will grow fall crops of cranberries. I prepare the ground by plowing deep—bringing as much of the sub-soil on too as I can. Harrow and work as for corn." A writer in the "Maine Farmer" says his crop grown on loam in 1863, "was at the rate of 453 bushels per arre." Other statements of the kind by experienced cultivators may be constantly met. by experienced cultivators may be constantly met with in the leading Horticultural Journals, showing how rapidly the cultivation of this plant is extending.

GARDEN CLEIVATION. -Prepare the ground by deep ploughing, or spading, and enrich it well in the usual way, or with a compost of two parts swamp much and one part wood ashes. Bone dust is an excellent application, say one pound to the square yard. In April, May or June, or in October and November set the plants four inches apart, in rows six inches asunder, in beds four feet wide. Two square rods will yield four or five hushels and require 2000 plants. The vines will soon cover the ground, and require no renewal, as the plant is a perennial shrub. The Cranberry is one of the best plants for garden edgings, or for broad belts, or borders for the principal walks. It is easily trimmed and kept in order, and is always attractive, in bloom, or in fruit, and being an ever given in winter. For elgings plant six inches apart, in double rows four inches asunder. For belts and border - which may be one half to two feet wide, plant above directed for beds. As soon as it is known how easily every family may grow its own cranberries the cultivation of this wholesome fruit will be introduced into every garden. It is in eating from September to June

For Makker Gardens and Field Culture.—Prepare the ground by thorough ploughing and manaring as in garden cultivation. New and virgin soils will not require any dressing. During the months of April, May and Jane, or in October and November, set the plants the or six inches apart, in double rows, three feet as under —These double rows are to be four inches apart, and the plants should be set as a hedge that:

Culture of the Granberry.

We have had some enquiries on the above subject and by way of giving a full and exhaustive reply to them, we make the following extracts from a circular issued by B. M. Watson, of the Oid Colony Nurseries. Plymouth, Mass., one of the most successful cultivators of the Cranberry, in the United States

"The success of this fine fruit in upland garden cultivation is now completely established. In fact

For Swame Celture.—The mode of planting is the same as above; but of course the preparation of the ground must depend upon the condition and character of the swamp. The great point in swamp cultivation is to make the land as dry as possible. Mr. Pk aney in his excellent paper, in the Report of the Secretary of the Board of Agriculture for 1863, says: "If the ground cannot be drained at least eighteen inches below the general surface, the situation must be rejected." It is much better to plant on dry ground and avoid the heavy expense of draining.

The True Cape Cop Variety, is by far the best in

eultivation, and succeeds best in uplands. There are several sorts in the market known as "the Bell," the Cherry," and many other fancy names which do not compare with this in real, practical value.

Propagation is simple and easy, by layering in August. Cover the now rapidly growing vines with an inch or two of soil, and they root at once making perfect plants for the next season. It is an easy plant to transplant, and is entirely hardy in the coldest climate, without covering.

GATHERING THE CROPS.—In October before cold weather, the crop may be raked by the common eranberry rake, or gathered by hand. Children can earn from 50 to 75 cents per day by picking them, at one cent per quart.

FALL PLANTING.—October and November are the best months for full planting. Prepare the ground well in September and set the plants as above directed. Before winter sets in, protect by ploughing a furrow directly over the plants, and in garden culture by strewing dung or leaves, &c., over them. When well established, however, they need no covering whatever.

Miscellaneous.

Agricultural Societies.

To the Editor of The Ca. ada Farmer:

Sin,-I was pleased to see the reply of "J. N.," of Springwood, in your 1st No., vol. II, in regard to your remarks in the "double number," headed "Township versus County Fairs," as I wished to see this subject fully discussed.

I agree with you, Sir, that we have too many petly Exhibitions, exhausting our time, creating too much expense in their management, and weakening our efforts for any practical or profitable results. "J. N." has given us some very strong arguments in favour of "Township Societies," which cannot be refuted; but he has suggested no remedy for the evils of which we complain. Township Fairs, certainly give an opportunity for all to exhibit with less trouble; but there is very little honour and satisfaction in obtaining prizes where there is little or no competition. It is true that the "spoils" are more thoroughly distributed; but the resources of the country are not properly developed by such feeble

I have watched the working of nearly all the Agricultural Societies in the county where I reside, and, but for one or two exceptions, should be prepared to vote for their discontinuance. Four or five, perhaps more, of the Township Fairs have made no progress the last' ten years; some have retrograded; while one, at least, has made such progress as to be equal to the average of County Fairs in Canada West; surpassing, both in membership and influence, the County Show of the Riding in which it is situated. This convinces me that we cannot have an Agricultural Act, so constructed, as to meet every circumstance. The township I have referred to, takes no interest whatever in the County Society, being far from the county town, where the County Show is always held; hence, I presume, the principal cause of its success from the first, and its constant progress is induced by the special interest taken in agricultural improvement by the whole township,- a feeling peculiar to but few localities; and deserving careful culture.

I have thought of various plans to remedy the evil-First, would it be better to abolish the County Societies, and let the townships have all the "spoils' and thus render them more effective in their opera-tions? Second, would it not be better to raise the standard of membership to one hundred, instead of

forty, as required by the Act, and thus weed out those that merely exist by force of circumstances, and for the sake of the "spoils"? Third, is it not advisable for two ridings, or even two counties, to unite for the purpose of concentrating their efforts, and producing more important results? Lastly, would it not be best to withdraw the "spoils" altogether, and let each society exist on its own merits and resources?

This last plan, Mr. Editor, would meet your wishes in respect to lessening the number; but would they prosper? That is the question! Some would sicken prosper: Int is the question: Some would sicken at once, and die suddenly; others would struggle for a while after their life blood was withdrawn, but ultimately give up the ghost, while in such localities as the one referred to, the shock might be felt at first, but would be of short duration. They have felt the necessity of such an institution, and they would scora the idea of supporting their residue to the school. the dea of supporting their society for the sake of the "spoils." Two dollars each, instead of one, would make them independent of Government "pap"; and where is the honest, progressive farmer that would not rather pay one extra dollar, than be subject to the taunts and insinuations of his unprogressive neighbours, who tell him that they are taxed to help pay the premiums awarded to him by Agricultural Societies? I am a voluntary in principle, and would ignore all Government grants; unless where indisputably proved that all persons are benefitted thereby; and where such advantages would not be obtained in any other way.

any other way.

It it ovident that Agricultural Associations, as now constituted, are not popular generally. Scarcely one-fifth of the farming community support them; hence, we assert that some changes are necessary. The Canada Farmer is the place to suggest changes, as every corner, no matter how remote, will have an opportunity of learning the arguments, whatever they may be. I trust this subject will not be allowed to drop. If we cannot agree to some constitutional change, let us endeavour to amend in detail.

SIGMA.

SIGMA.

February S. 1865.

Noses.-The French and English have each nine proverbs relating to the nose. Here follows the nasal proverbs relating to the mose. Here follows the masal wisdom of the vernacular; 1. Follow your nose. 2. He cannot see beyond his nose. 3. An inch is a good deal on a man's nose. 4. He would bite his own nose off to spite his face. 5. He has a nose of wax. 6. As plain as the nose on his face. 7. To hold one's nose to the grindstone. 8. To lead one by the nose. 9. To put one's nose out of joint,

Agricultural Essays .- On Saturday, the 15th in-AGRIC' LICELY ESSAYS.—On Saturday, the 18th instant, v e listened to a lecture, or, to speak more correctly, a series of essays, by Mr. W. Weld, of Delaware, at the Mechanics' Institute, London, C. W. The essays were on agriculture, the monetary system, &c., topics of great interest to the country. In the audience we recognized some of our most enterprising agriculturists as Mr. Johnson late President of audience we recognized some of our most enterpris-ing agriculturists, as Mr. Johnson, late President of the Agricultural Association of Western Canada; G-Walker, first Vice-President of the Middlesex A. A.; Captain Shore, N. Carruthers, T. D. Ledyard. &c. Mr. Walker was called to the chair. After the delivery of the lecture the following resolution was passed unanimously:

"That the thanks of this meeting be given to Mr. Weld, for the very interesting and useful lecture with which he has favoured us; and that we hereby express our opinion that such lectures are eminently calculated to arouse the people of Canada to a more thorough development of the resources of the country."—London Advertiser.

Turf for Fuel.—Mr. Hodges, the contractor of the Victoria Bridge, possesses a large tract of land in the Township of Bulstrode, on which there is a large turf bog or Savane. There he has begun very large works for digging and pressing the peat into bricks to be used for fuel. He has on a floating raft machines for digging and pressing the turf, which are capable of making daily 50,000 bricks of the size of those used for building purposes. Mr. Hodges has also made a good road through the township, and is about to put up a large mill on the water power situated on the property. The success of the experiment now making by Mr. Hodges is a matter of large importance to Canada. Extensive bogs exist throughout the Province, immediately adjoining navigable TURP FOR FUEL.-Mr. Hodges, the contractor of the out the Province, immediately adjoining navigable waters, such as the Teafield on the south shore, at the head of the Beauharnois Canal, and the Caledonia district south of the Ottawa. Compressed peat is now produced in some parts of Great Britian to compete with coal, at less than half the price the latter fuel commands here on the average. Professor Hunt, of the Geological Survey, has frequently in his reports pointed out the economic value of the vast deposits of peat in Canada and the application of skill and capital is only required to turn wasto districts into scenes of activity and sources of wealth.—Montreal Gazette.

Markets.

Toronto Markets.

"CANADA FARMER" Office, Thursday, April 27, 1565

"Canada Farmer" Office, Thursday, April 27, 1865

The season, during the past two weeks, has been on the whote favourable, but cold, and the air somewhat frosty. There was however, almost uninterrupied sunshine, and fine weather, interspersed with a few wet days and storm. One hurricane swept over this city, doing considerable damage to property here as elsewhere. Undoubtedly the great event of the past formight or of the present day, was the horribio deed of assassinating the great and good American President, Abraham Lincoln. It is an era it deprivity, which has shocked the feelings of the whole world, and will descend to posterity as n dark spot on the brightness of our age. The state of our markets for the past two weeks, was that of a steady advance in almost every-department. Flour has gone up some 25c to 35c per barrel for No. I superline, and even higher, since our list report. Although this branch is the only one to any extent in the market, yet others advanced in proportion and transactions were small. The stock on hand is very light and prices are expected to rule higher still. In wheat, there has been about an average entity, with increased prices. Spring wheat is in good demand, and preferred to fail, which is contarry to the old notions entertained by our farmers and merchants. The reason is however, that the grades of fail raised by as now are not good, and do not make the same strong flour that is made from spring wheat. There is only one-lifth the stock of spring in the country this season that was here last, and about half the fail. In provisions, we have nothing much to report. The pork season is over to a great extent, and prices and transactions are steady and unchanged. A good trade spring up in live stock, about a week of bidays ago, owing to the scarcity in the New York markets, but when the obstructions to traille were taken oil, that market supplied to exes, and a consequent decline and duiness took place here. Beef is kept up, however, by our butchering, and means of all kinds are dea

Flour steady: No 1 superfine at \$4 60 to \$4 75 per bbl, extra, \$4 75 to \$5 00, superior extra, no receipts, fancy, nominal Full Wheat steady, firm, wanted, no receipts, selling at 95c of the party of

Full Wheat steady, firm, wanted, no receipts, selling at 95c of \$100 Spring Wheat—In active demand and advanced, at 95c to \$100 Spring Wheat—In active demand and advanced, at 95c to \$100 Spring Wheat—In active demand and advanced, at 95c to \$100 Spring Wheat—In active demand and in store Hye 60c per bushel.

**Touts at 45c to 46c per bushel, from teams and in store Hye 60c per bushel.

**Peate firm and steady, at 80c to 85c and 90c per bushel.

**Hay—Market fairly supplied at \$14 to \$18 per ton.

**Straio in poor supply at \$14 per ton.

**Provisions—Futter—Fresh, wholesale, per lb., 15c to 17c; retail, ser lb., 16c to 18c, in tubs, wholesale, per lb., 15c to 15c.

**Eggs—Wholesale, per dozen, 10c to 12c, retail, per dozen, 12c o 13c.

**Wholesale, per lb. 0.to 10c, potal, parth, 100 to 111.

Figgr—Wholesale, per dozen, 10c to 12c, retail, per dozen, 12c to 13c.

Hars—Wholesale, per lb, 9c to 10c, retail, per lb, 10⁴ jc to 11⁴ jc to 11

Geese, 35c to 60c each.

Oil Cake, \$32 per ton, or \$1.75 per cwt.—Very fair demand.

**Ramilton Markets, April 26 — Flour, firm, on account of the scarcity of wheat, at double extra, \$5.50, extra \$5.00; No. 1 superfine, \$4.50 to \$4.75. Grains—Fall Wheat scarce and in active demand, at from \$1 to \$1.05. Spring Wheat, also asked for at 95c to \$1. Harley, dull and drooping, at 65c to 70c. Oats, ingher, at 46c to 45c. Pear, nothing doing, quoted at 80c to 86c. Corn dull, at from 65c to 70c. Buckwheat, 65c to 65c. Pravissons—Butter, scarce and wanted, at 20c to 25c for fresh roll, dairy tub at 1.25. Eggs, plenty and quiet at 10c to 123.c. Cheese, nothing doing, at 10 to 12c. Apples, not supplied in any quantity and sold at from 20c to 30c per peck. Polatoes, plenty and good at from 25c to 50c per bushel. Turning, 25c to 30c per peck. Onions, 50c per pushel. Turning, 25c to 30c per peck. Onions, 50c per peck. Heef, none in market, quated at \$7 for land quarters, and \$6 for for do. Mutton, sold at 73c to 85 per lb. Veal, sold at 5c per lb. Pork.—Mess, \$13 50 to \$100. Prime Mess, \$15 00 to \$10 00. Hams, uncovered, 10c, do covered, 123c. Shoulders, uncovered, 9c, da covered, 10c. Apples, nool, well supplied, at from \$25 to \$3.75 for good dry. Hay, from \$15 to \$17. Sheepskas, \$1 to \$2; calfskins 7c to 8c per lb. Tatlone & per lb. Hidrs, \$10 to \$25 to \$3.50. Wool, 35c to 40c. Sheeps-Cibert Seal, \$13 00 to \$14 00. Thmothy Seed, \$2.50 to \$4.00.—Spectator.

**London Markets, April 25, 1665.—Fall Wheat per bushel, 90c to 95c. Spring Wheat, do. 98c to 97c. Barley, do. 68c to 72c. Outs. do. 42c to 55c. Peat, \$10 00. Trested Hop, per cwt. \$5.00 to \$10 to \$10 to \$15 00. Oat Straw, per load, \$3.00 to \$5.00. Beef, per cwt. \$5.00 to \$4.00 to \$7.00. Oat Straw, per load, \$3.00 to \$5.00. Beef, per cwt. \$5.00 to \$4.00 to \$7.00. Oat Straw, per load, \$3.00 to \$5.00. Beef, per cwt. \$3.00 to \$4.50 to \$2c. Dutter, fresh, per lb. 14c to 17c. Indice, keg, do. 123c to 13c.

ve, do 125ge to 30.

Paris Markets, April 26—Spring Flour, per 100 lbs., 225. Fall Flour, per 100 lbs., \$250 Spring Wheat, per bushel, 15c to \$1. Corn Meal, per 100 lbs., \$175 to \$2. Butter, per lb., 168 Eggs, per dozen, 9c to 10c. heese, per lb., 12c Hams, per lb., 12c Foldoes, per bushel, 5c to 35c Wood, per cord, \$2 25 to \$2 50. Hay, per th., \$10 5 \$12.—\$Xar. to \$12.—Star.

Guelph Markets, Aran. 25.—Fall Wheat, per bushel, 90c to 93c Spring Wheat, do, 80c to 90c Oats, do, 40c to \$43c.
Peas, do, 75c to 80c. Barley, do, 65c to 75c. Pirk, \$5 to \$650.
Beef, \$8 to \$10. Hay, per ton, \$14 to \$18, Straw, \$4 to \$6, Butter, 150 to 1°c. Eggs, per dozen, 10c to 125c. Potatocs, per bag, 60c to 76c. Apples, do, 50c to 75c.—Herald.

Brantford Markets, April 21—Spring Wheat, 85c. Fall Wheat, 90c to 05c. Flour, per cvet., \$2 25 to \$2 50. Butter, per lb., 8c to 10c. Eggs, per doz. 125c to 16c. Beef, per 100 lbs, \$4. Pork, per 100 lbs., \$5.60 to \$6. Detaces, per bushel, 37c. Hay, per ton, \$13.—Courter.

Polatoes, per bushel, 37c. Hay, per ton, \$13.—Courter.

Gill Minklet Prices, April 20.—Flour, per 100 lbs. \$2 00
to \$2 50 Fall WW. d. per bushel, 88c to 98c. Spring, do per
bushel, 78c to 82c. Hurley, do, 60c to 70c. Oats, per bushel, 40c
to 42c. Rye, 60c to 60c. Flax Seed, per bushel, \$1.00 to \$125.
Butter, per 10. 14c to 10c. Eggs, per doz, 9c to 10c. Wood, per
cont, \$2 50 to \$3 00. Hay, per ton, \$10 03 to \$14 00. Straw,
per ton, \$5 60 to \$6 00 Polatoes, per bushel, 25 to 30c. Peas,
do. 70c to 80c. Heef, per 100 lbs. \$3 00 to \$4 00. Pork, per 100
lbs. \$5 60 to \$6 10. Mutton, per lb. 5c to 10c. Cheese, per 10 d
to 8c. Hades, per 100 lbs. \$3 00 to \$4 50. Calf Skins, over 8 lbs.
8c. Sh ep Skins, \$1 00 to \$1 75.—Heform.

Barric Minklets, April 25.—Full Wheat, 85c to 90c. Spring
Wheat, 80c to 61. Oats, 55c to 60c. Peas, 80c to 90c. Hay, \$13
to \$20 per ton. Polatoes, 40c to 55c. Pork, \$6 50 to \$7. Beef,
\$60.—Adteance.

Owen Sound Markets, April 20.—Fall Wheat, 75c to 80c.

Spring Wheat, 70c to 77c. Oats, 34c to 35c. Barley, 85c to 66c.

Pras 55c to 75c. Hay, per ton, \$14. Pork, \$150 to \$5.60; Beef, \$7 to \$7.60. Potatoes, 57% to 40c. Butter, 1234c. Eggs, 8c to 10c. Timothy Seed, \$1.50 to \$2.—Times.

Windon Market, April 15 — Flour, No. 1, \$5 to \$560; Wheat, Fall, 90c to 95c, do., Spring, 60c to 85c. Barley, per bush., \$150 Oats, 40c Ryc 63. Peas, 60c to 65c. Corn, 50c to 65c. Potatocs, per bushel. 40c to 50c Hay, per ton. \$10. Wood, per cor., \$2 to \$3. Hides, (5reen) per 10., 3c. Calfikins, green, 7c.—Journal.

Journal.

Cobourg Markets, April 25.—Flour per Barrel, \$5. Full Wheat, per bushel, 95c to \$1 Spring Wheat, per bushel, 95c to \$1 Spring Wheat, per bushel, 95c to 95c. Platocs, 30c. Barley, per bushel, 60c to 65c. Plas, per bushel, 75c to 80c. Oats, per bushel, 48c to 50c. Hay, per ton, \$9 to \$10, Hules, per wit, \$2 50 Sheepikins, 50c. Beef, per cwt, \$5 to \$0 60. Pork, \$6 60—Sun.

Hrockville, Markets, 4, per 125.—Flour, superfine, per 100 lbs, \$2 25 to \$3. Oalweal, do. \$3 Full Wheat, per bushel, \$1 Spring Wheat, per bushel, \$1 Ryc, 65c to 70c. Pear, 70c to 70c. Barley, 65c. Oats, 37 s.c to 40c. Buckwheat, 35c to 40c. Corn, 65c to 70c. Butter, in rolls, 15c to 16c. Beef, 6c to 12c. Mutton, 6c to 12c. Pork, prime mess, per bbl., \$13 50 to \$14. Hardwood, per conl, \$2 25 to \$2 50. Wool, per ib, 40c to 514. Green Hilles, 4c to 5c. Sheep Felts, 60c to 80c. Hay, per ton, \$14 to \$15.—Central Canadian.

Ottawa Markets, April 26.—Flour—Extra \$5 60 to \$5.75.

9 46.—Central Canadian.

Markets. April 26.—Flour—Extra \$5.50 to \$5.75;

to 1, \$5.25 to \$5.50. Full Wheat, per bushel, \$1.05. Spring

Wheat, \$1. Corn, per bushel, 60c. Pear, per bushel, 75c. Oats,

or bushel, 40c. Hest Pork, per barrel, \$22.50. Hog, per 100 lbs.,

7 to \$8. Beef, \$5 to \$6. Multon, per lb., by the qr., 5c. No. 1, \$5 2 Wheat, \$1.

Montreal Markets, April 26 — Flour—Receipts, 1,400 barrels, market very quiet and little business doing, quotations unaltered, but are liardly sustained; begs steady at \$2.70. Wheat—no sales _likes_list pols, \$5.20, inferiors, \$4.70, first pearls, \$5.50, inferiors, \$4.70, first pearls, \$5.50, inferiors, \$5.50.

no sales Athes-first pois, \$5.20, inferiors, \$4.70, first pearls, \$5.50, inferiors, \$5.5. Butter and Pork dull and unchanged.

**Detroit Markets, April 20 — Flour, quiet and dull Nominal quotations are Superior \$7.75 to \$8.00, ligh extra. \$7.50 to \$7.50, extra \$6.75 to \$7.22 if theat, very little doing, offored at \$1.50 without buyers. Corn, quiet and unchanged, at \$20 to \$0.00 tr, steady at 50c in store. Rye, at 95c. Barley, Market well supplied and quiet at former quotations. Prime Canada \$2.50 well supplied and quiet at former quotations. Prime Canada \$2.50 well supplied and quiet at former quotations. Prime Canada \$2.50 well supplied and quiet at former quotations. Prime Canada \$2.50 well in market. \$15.00 to \$16.00 is freely offered. Provincions, Mess pork is held at \$21.00, smoked hams, best quality, 20c; shoulders 18c, tard 19c; mess beef \$16.00. Dotatos, inactive; best 55c to 60c. Lipida, \$5.00 to \$6.00 per bbl.—Free Prass.

**Buttendo Markets, April 26.—Flour—The market yester day ruled quiet, but what transactions occurred were made at a good firm figure. Double extra Indiana at \$9 to \$9.75; 25 barrels XXX do. at \$10, and extra tate at \$7.25, Canada baker's at \$7.31, to \$7.50, XX and XXX Indiana white at \$9 to \$10. Grain—Wheat firm, with light milling demand. Sale yesterday morning of white Michigana \$1.90, and at \$7.0. Corn firm, with fair inquiry, at 90c to 93c and 93c. Oats steady at 55c and at 60c. Barley in light demand at \$1.90 to \$2.5 xros adult at \$1.50 to \$1.75. Mall in fair demand at \$1.90 to \$2.5 xros adult at \$1.50 to \$1.75. Mall in fair demand at \$1.90 to \$2.5 xros adult at \$1.50 to \$1.75. Mall in fair demand at \$1.90 to \$2.5 xros adult at \$1.50 to \$1.75. Mall in fair demand at \$1.90 to \$2.5 xros adult at \$1.50 to \$1.75. Mall in fair demand at \$1.90 to \$2.5 xros adult at \$1.50 to \$1.75. Mall in fair demand and firm at \$5.50 to \$3.57. Hungaram Grass Seed quoted at \$18.6 Green Applied dull at \$4.00.50 to \$1.57. Timolhy in fair demand and firm at \$5.50 to \$3.57. Hungaram Grass Seed quoted to

and quotatious are entirely nominal at 20c to 23c per lb.—Courier

New York Markets, April 26.—Flour—Receipts, 22.071
bbls, market dull and drooping, sales, 5 600 bbls, at \$7 to \$7 35 for
superimo State, \$7 45 to \$7 70 for extra State, \$7 75 to \$7 85 for
clouce do, \$7 65 to \$7 35 for superfine Western; \$7 75 to \$7 25 for
common to medium extra Western, and \$8 10 to \$8 25 for common to good suipping brands extra round hoop Ohio. Canadian
Floar duit, sales 300 bbls at \$7 55 to \$8 10 to \$25 for common, and \$8 15
to \$10 25 for good to choice extra. Rige Flour duit. What—Receipts, 600 bushels, market duit, sales, 7,500 bushels winter red
Western, at \$1.75, and 2,500 do choice auber Michigan at \$1.85.
Rige duit. Barley quiet. Corn—Receipts, 8,319 bushels, market
steady, sales, 10,000 bushels old Mixed Western at \$1.40 in store.
On s duit and theavy at \$55 for Western. Por: tirmer; sales, 2,000
bbls at \$29 50 to \$29 for new mess, \$25 75 to \$26 25 for 1863 and
1864 do., and \$25 for prime. Beef duit.

Buil's Hend, April 24—With less than 3,000 head of boef

bbls at \$28.50 to \$20 for new mess, \$20.75 to \$26.25 for 1863 and 1864 do., and \$25 for prime. Berf dull.

Hill's Head, April 24 — With less than 3,000 head of boof cattle in market, we have another decline of full a cent a pound, and a remarkable dull market—dull and slow at the opening, moderately active at midday, and very dull toward night; good smooth steers for retail butchers selling at 20 cents a pound net, and the highest rates and that for only a few of the very best buillocks, are 21c to 22c. The lowest grade range 14c to 18c, and upon all the salesmen appear to be willing to concede liberal estimates of weight. There are 265 Canada distillery-fed stock, some of them quito fat, selling at 19c to 23c a pound, and owners say \$15 a head less than last week, though we think that a strong estimate. We think the decline is \$10, and it is in the same proportion upor@good lillinois steers, of which the stock on sale is principally composed. These all sell, so say the drovers, at a loss, and pretty heavy upon that portion that cost present owners 10c a pound on the farm. The general average quality of stock is not quite so good as last week, though there is a good supply of such as are suitable for first class butchers at this season. Sheep are 1c to 11/2c per 1b lower than last Monday, with a full supply on sale. Unsheared sheep are worth 10c to 11/4c, and sheared ones 9c to 10 c. A lot of extra fat sheared, sold since last propriat 12c to 12/4c per 1b, average 110 its. There are 16 car loads of hose on the market, and prices down, porkers not buying, and business stagnent. Prices 10/4c to 11/4c per 1b, live weight.—Tribune.

Advertisements.

COE'S

SUPER-PHOSPHATE OF LIME.

ANDREW GOE, MONTREAL.

WARRANTED GENUINE

Patented 3rd December, 1863.

Made of the best materials, and in the most improved manner, it is commended to the public as superior to any other in the market. All who have used it speak of it in the bighest terms of praise; and the Manufacturer will continue his best endeavors to advance the reputation which it has already acquired, on its merit alone.

For Testimonials see back Nos. of this Paper.

Sold by James Fleming & Co., Toronto, O W., and in all the principal towns throughout Canada.

THE CELEBRATED HORSE

"Anglo saxon,"

W H.I. leave his stable in Dolyware, near London, on MAY the Ist, and will be in London on that day, at Stratford on the 3r , General the 5th, London on that day, at Stratford on the 3r , General the 5th, London 8.h, 9th and 10th, John 12th at 13th, Edgewell, 20th and 22thd, Priseoff, 24th and 25th, Montreal, 27th 23th and 30th. Remarking at Robotson of an et al., Kongres, 27th, 24th and 15th, Huantforn, 15th, 9th and 10th, Huantfor, 15th, 14th and 15th, Huantforn, 16th, 4th and 15th, Huantforn, 16th, 4th and 15th, 10th, 20th; London, 25th, 4th except will be for the remainder of the season.

The staff of Service - To consure (4 the Vare should have a horse

he will be for the remainder of the season.

Terms of Service —To ensure, if the Vare should have a horse coll, \$100. If a mare coll, nothing—S as in, \$40. Single Service, \$25. Good mains may have the service of the horse by the owner payl § \$10 and or senting to set a price on the coll at we aming time, a dito pay me that price—giving me the prior of taking the coll at the price is, or the money. Now but good martes it to raise Stallions from will be taken. For Pedigree, &c., see Casylos Farrann for January 18, pages 4 and 5. To present imposition, it will publish the names of owners of mains shat pay for the service of the horse.

Constitutes of service furnished for pedigrees. His at the have taken prizes wherever shown.

"Anous Saxon" is one of the surest steel getters in the country, and considering the value of the horse, the cheapest Stallies travelling

Grown's for 25 cents for showing the horse. Time of exhibiting the horse, 2 o'clock each day.

83 WANTED TO HIRE, -four of the less brood mares I can fluid to raise cate

Names of Gentlemen that have engaged his services in the County of Middlesex for the season :— JNO SCHIERLAND CHRISTOPHER WALKER. COL FITZOZIIALD.

GEO, ROBINSON GEO, WALKER

W. WELD.

May 1, 1885.

72-9-1L

STRONG DELAWARE GRAPE VINES.

WARRANTED true, at 75c each, or \$6 per dozen. Other Grape Vines and all other huncry Stock in abundance. Planting may be done with enforce until the middle of May next. GEO. LESLIE,

Toronto Nurseries.

Loslio P. O., near Toronto, May 1.

v2 9-10

IMPROVED FARM FOR SALE.

To the County of Simose, with Cror, Stock, and Implements, the I North 15 Lot No. 26, in the 10th Concession of Notta casega, 100 acres, more or less; about 80 acres 4 leased and Fencel, of which 60 acres are about clear of stumps, and under crop with Wheat, Oats Barley, Potatoes and Hay, and the balan or a Pasture. A good Shore Dawling House, 28 x 24, and other out buildings. Also a young Oreland bearing fruit, and a good Shot shi she for a Carding and Fulling Mill, 7 miles from Collingwor. He bouch 175 from the Soutch Corners. The above will be sold clear for Cash, and 7 per control of disc untailower, or unit will be given for the one-half of the purchs of money.

Ambly by Jointer, Fost-pald, to

Apply by letter, Post-paid, to

PETER BEVERIDGE, On the Premises.

Nottawassea, April 16th, 1966. W.S.-15

Nottanon P. O.

1865.



1865.

NOTICE.

THIS YEAR'S IMMIGRATION.

I MMIGRANTS of the classes so much needed in Canada, Domestic Servants, Mechanics, Farm Laborers, &c., are now beginning to arrive and may shortly be looked for in increasing numbers. It would therefore be v ry desirable that parties in Canada wanting any of the source classes, should signify their wishes (the kind of person wanted, wages, &c., &c., and the best mode of reaching the applicant), and address any of the following Government Immigration Agents:—

HAMILTON, - - R. H. RAE.

TORONTO, - - - J. A. DONALDSON.

MINGSTON, - - J. McPHERSON.

OTTAWA, - - - W. J. WILLS. MONTREAL, - - J. H. DALEY.

QUEBEC, - - - A. C. BUCHANAN,

CHIEF AGENT.

A record of such applications will be kept, and no pains spared by the various Officers of the Pepartment to supply all wants. It practices in Agents having improved farms or lands for sale or takes a custued to forward printed descriptions of same for the free in pection of immigrants and discribition.

GOVERNMENT IMMIGRATION OFFICE. Quebro, 1st April, 1865.

A. C. RUCHANAN, Chief Agent ¥2.7-6L

STRAWBERRY PLANTS BY MAIL.

WILL send Thiodpine de Gand Strawberger Plants, in good order, l'ost-pard, to any part of the Province for 20 cents per dezen, of \$1 per hundred, the state best foreign variety, and has taken four first promiums in New York. [See "American Arriculturist" for July, 1802 63, and 644 Also, a com nete treats on Strawberry cul ture sent or 12)4 cents. Send P. O. Honey Order if convenient. Address, Post-paid,

12.9-32

G. P. RINFORD, BEDFORD. Missisquoi Ca, C. E.

NOTICE.



FARMERS and others requiring FARM LABOURERS, ME-CHANIC, or FEMALE SERVANTS, are invited to Apply at

The Emigration Office-14 Front Street,

an' these having FARM LANDs for sale, will please forward lists, with prices affixed JOHN A. DONALDSON

Toronto, April 15th, 1965.

Government Emigration Agent. \$2.8—11

ROOT SEED SOWER.

AND

Manure and Plaster Distributor.

THE Subscriber has obtained a patent for the above Machine, which he desires to introduce to the notice of the Farming communty. It will saw, and evenly distribute all kinds of root seeds, in any required proportions. It will at the same time distribute manure or plaster, in any required quantity.

it will sow a distribute the seed with or without any manure or plaseer. It will distribute, without injury, plaster or ashes over plants when they come through the ground. It will sow double or single—two move, or one at a time. It can be worked by manual labour, or by horse power. It is the most complete article of the kind, and one of the treatest LABOUR SAVING INVENTIONS yet brought under public notice.

Prient Rights for Counties and Townships for sale. Applications to be made to

JAMES CLAYTON, Farming Implément Manufacturer, de

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January 30, 1865.

72-3--68

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January 30, 1865.

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