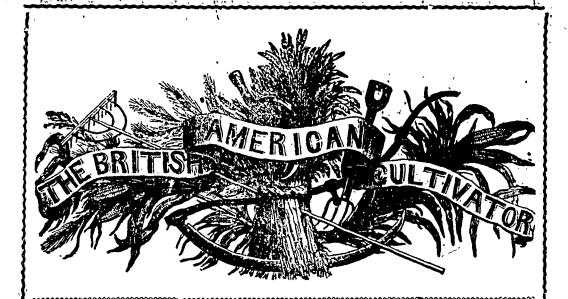
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'Agriculture not only gives Biches to a Nation, but the only Riches she can call her own."

Ne**w S**eries.

Vol. III. No. 6.

HINTS IN SEASON.

and one in which the practical agriculturist or spear-grass, which, upon the rich soil in can take much delight, 'n watching the daily Canada, will, in wet seasons, defy the most progress of his crops. In many respects it skilful cultivator, unless very great pains is a farmer's holiday; and although every be taken, and the warmest and driest days careful man will find an abundance of pro- be selected for the operation. The course fitable employment on his farm, still, from we have practiced with much success to dethe period that the seeds are sown, up to stroy the roots of spear-grass, is the followhaying, there is not that necessity for ex-|ing:-We broke up the fallow about the ceedingly laborious duties that are required middle of June, with a four-by-nine-inch during seed time and harvest; and the far-|furrow, and during the succeeding six weeks mer may, if he plans his business rightly, we frequently harrowed the land, and, in slacken his pace a little, without at all af- the month of July, employed a three-horse fecti g the products, or in any way lessening scarifier, and by two operations with this the profits of his farm. It may not be unpro-implement, we have thoroughly succeeded fitable to continue our practical hints, which in destroying all the couch and other grasses may in some cases he found useful and in- on land that, previously to the operation, was teresting to our readers.

Canada it is still fashionable to make naked ing cannot be done too lightly. The only summer-fallows, and doubtless in very many things necessary to be observed in the perinstances the practice is a good one. In sum-formance, are, to get below the roots of mer-fallowing land, the great benefit to be the grasses, and to turn up a light, neat derived from that practice is, that of thor- and well proportioned furrow. By thoroughroughly eradicating every species of wild ly separating the roots from their hold of the grasses and weeds, &c.; and unless this be soil, and exposing them to the powerful rays properly done, it would be better for the of the sun, during the months of June and land if it had been put under a smothering July, the principle of life is destroyed, and

crop, such as peas, buckwheat, or clover .--Tuis is truly a pleasant season of the year, The most difficult grass to extirpate is couch in a wretched state of cultivation. It should Summer Fallows .- In many portions of always be remembered, that the first plough-

the second ploughing should be performed a thousand plants next year. It is somethe latter part of July, and if the soil is what difficult to give directions that would of proper depth to bear it, the best course to apply in a majority of cases; but if a public be pursued is, to plough with three horses journalist acted on the rule of giving only abreast, to the depth of ten or twelve inches, such advice as all or a large proportion of his This system cannot be practiced on all soils, readers could practice with profit, but very but on strong clay loains it would greatly few suggestions would be advanced, and increase the average yield of wheat, and consequently, improvements would be slow; especially where this crop is very subject to we therefore must not be accused of medrust, it would add greatly to the product .- dling in business which, properly speaking, If we were asked what system of managing belongs to others,—our object is to give adsummer fallows is best adapted to this coun- vice,—and those of our readers to whom it try, we would unquestionably include these is applicable, if they study their own intethree particulars, viz: if the land be foul, rests, will put it in practice. and full of couch-grass, that the fallow should be ploughed in autumn, and, if fort should be spared to keep them down at possible, the system of rafter-furrowing this season of the year; and this branch of should be done with an exceedingly deep business should be particularly attended to furrow; and lastly, if barn-yard manure be among the drilled crops. In cultivating all applied, it should have been previously well kinds of drilled crops, the horse-hoe is found mixed in the yard, or manure-heap, and a most useful, nay, an almost indispensable have passed through its first stages of fer-limplement; and by frequently employing it mentation,—the last particular is more par- in connection with either the shovel or douticularly applicable to soils subject to rust ble-mould plough, the foulest land may be or noxious weeds. Those who cultivate made tolerably clean. lands that have very recently been cleared from the forests, if they practice the plan of do odd jobs about the tarm, such as repairing sowing entirely clean grain of all kinds, fences, outbuildings, &c., and among the that is, in which there are no noxious seeds, other odds and ends that they will find con--and if they are careful to eradicate the venient to execute, is that of carefully calfirst appearance of the weeds, which are so culating the costs of allowing the various very injurious to the crops when allowed to kinds of weeds to grow upon the farm, -of spread and multiply-we distinctly wish to course, rent of land, ploughing, harrowing, be understood to say, that if due attention and partial loss of grain crop, must all be and care are observed by the bush farmer, brought into the account, and the balance when he commences to chop and clear his sheet must be carefully prepared. If this farm, he may, with a very little trouble, calculation be honestly made, no sensible prevent all or every descriptio. of noxious and judicious farmer will long continue to weeds getting possession of his land. This sow and cultivate noxious and worthless is not so easily managed on land that has weeds among his grain, but v. : prefer to been long under a state of cultivation, and sow clean seed, though it cost him extra exwe know scores of careful cultivators who pense, and will also employ the best means of find it a very difficult task to rid their firms keeping the soil under a clean and thorough of injurious weeds. This is the proper sea-state of culture. It is in advance of the age son to attend to this important matter, and in Canada, to recommend drill-husbandry no farmer should hesitate to extirpate weeds and horse-howing grain crops generally;from his crops, even although a few valuable but on old cleared land this system may be plants should be destroyed in the attempt, practiced with very great success, and on a An undisturbed weed may be the parent of majority of soils, it would alone add 30 per

To return to the subject of weeds, no ef-

Farmers have now also a little leisure to

for cultivating and cleaning all kinds of grain Mr. T. Bickell, who was the active Agent crops, have been for many years very ex- in, or rather Originator of the whole affair, tensively employed in England, and we and who deserves great credit for the mansee no good reason why similar appliances ner in which it was managed. could not be used for a similar purpose in mode of operations as that adopted by Mr. this country, especially in the oldest settled Bickell is certainly, as Mr. Hatch justly localities.

tion, and after the plants have been tho- should have more attention paid to it? than roughly cleaned from foul weeds, some stim- it generally meets with. In this case five ulating manure should be applied to them. - very liberal prizes were given by Mr. Bic-Gypsum is far the cheapest and most effici- kell, and under his auspices every thing ent manure for this purpose, and its effects went off to perfection. We recommend such on potatoes, turnips, Indian corn, and most a friendly and excellent plan of encouraging other vegetables, especially in dry seasons, good workmanship, in ploughing, reaping and will quite exceed the expectations of those other farming operations, as well as in sheepwho have never used it upon their root crops,-next to gypsum, in point of cheapness, is wood ashes, and the next in order is salt. A few shillings expended in the purchase of the above manures, with a view of applying them to the root crops, about the latter part of this month, will amply repay the expenditure, and will in many instances push forward a healthy growth of plants, which will give them such a start as to enable them to withstand the hot, parching, sunny days of July and August, and will add very largely to the product.

If the barn-yard manure is not now applied to the soil, it should be turned and thrown up into large heaps to ferment, by which the vitality of all noxious seeds will become thoroughly destroyed, and besides, the manure will become decomposed, and made in a fit state to apply to the land in the autumn, for the pea crop. On verv much of the land in Canada this system of manuring will be found to answer an excellent purpose, especially where it is done with a view of following the pea crop with winter wheat, and where the latter crop is subject to rust.

Sheep-Shearing at Woodstock.

Agent in the Brock and London Districts, of touching the floor, he never, in that position, was a spirited match which lately came off at disturbed by cramp.

cent to the average product. Horse-hoes Woodstock, Brock District, at the farm of remarks, "a new thing in this part of Cana-Root Crops will now require much atten- da," and Sheep-shearing is a matter "which shearing, to the attention of our readers. In the proper season we shall make some remarks on the cultivation and mode of managing Wool. Meantime, we say to holders, see that all impurities are removed from the fleece, that each be neatly tied up, and that the whole be carefully packed away, in a place that is neither too hot nor too cold, if to be kept over winter. All this ought to have been done at the time of shearing, but if then neglected, can yet be attended to, -and we assert, that were our wool more carefully cleaned, and more tidily packed, it would bring a much higher price in the market than it now does.

Remedy for Cramp .- A writer in the Medical Times, asserts that he has discovered in the following simple process an effectual remedy for this distressing and frequent complaint, to which he had himse f been for many years, a martyr. His plan. is to sleep upon an inclined plane, which is effected by taking care that the bed or mattrass should incline at least twelve inches from the upper to the lower portions of the bed; and for this purpose either the-lower feet may be cut down to the requisite inclination, or the inclined plane may be made by an arrangement of matrasses, or by removing the feathers from the lower end of the bed. The writer was led to adopt this plan, by observing that while, We have a Report from Mr. Hatch, our sleeping in a chair, with the lower limbs nearly

Horticulture -- Kitchen Gardening.

There are no vegetables more useful than Peas and Beans, Cabbages, Broccoli and Gauliflower, Turnips and Leeks; and these are fitted for nearly the very smallest garden. Our previous remark, that no spot of ground in a garden should be allowed to lie unoccupied, cannot be too often recalled to memory, and we would recommend that all vacant spots should now be filled up with one or other of the above vegetables, except Leeks, which are soon enough planted in July, and for them a little plot should be kept vacant, and be thoroughly manured, and well worked and cultivated by deep digging. We proceed to give a few hints on the cultivation of each vegetable.

1st. Of Peas .- These may be sown all summer. There are a great many varieties. The Early Frame, the Blue Prussian or Imperial, the Marrowfat, Knights and Bishops Dwarf, and the Early Charlton, are generally recommended and well known. The Genessee Furmer says "the Prince Albert is the best early pea. It is a week earlier than the best old varieties, is excellent, and yields good crops." I have before recommended a variety called the Scymeter, from its shape. It is early, hardy, and productive, and very tender and delicious. Such parties as have well sized gardens I would advise to sow neas of two kinds every twelve days. Of course rows are best adapted for peas. For the tail growers my plan is, 1st, to sow in double rows, with about ten inches between,-by which means the rows can be thoroughly cleaned, and earthed up. and staked together,-and in this way the peas grow much stronger than in single rows, as they are a kind of protection to each other. In single rows they are more easily hurt by wind, and generally have a pining, thin appearance. The stakes ought to be six feet in height, and have plenty of branches-they should be pointed, and fixed firmly in the ground. 2d Between these two rows and the next two, a space of about four feet occurs, (in this a row or two of spinage may be sown.) This is useful for proper ventilation,

ther, and are lost. Persons who are of a very careful and tidy disposition, frequently use a pair of scissors to cut the individual pod they want, and they are rewarded for their pains by the whole produce coming to perfection.

Dwarf Peas take up little space, and I think the best mode of sowing them is, in single rows of two feet wide, in which plenty of seed is inserted.

It is a good plan, particularly in dry weather, to soak the seed for about an hour or more, in a solution of saltpetre and water, previous to sowing. This is not only a good test of the quality of the seed, as all the bad ones either swim on the top or split, but is also the best way of causing the sound ones to germinate freely and speedily. If salipetre is not at hand, salt or a little of the dung of pigeons or fowls, well mixed in water, is an excellent soak -and devoid of all these, good spring water is of itself perhaps not the worst .-Some people advise hot water, but I do not little awns of barley, or prickles of gorze, put among the seed, prevent mice troubling it, and the awns scattered on the ground above, are good traps for snails—they hold them fast, and you can kill them.

If you wish to preserve any plants for seed, I would recommend you to try a plan which is a profitable one, and is besides a source of interest and amusement—which most of the operations in the garden ought to be rendered and considered. Choose out the strongest and finest plants, and have them particularly staked up or otherwise well supported,—on these allow merely five or six of the first pods to come to ma urity,—all the others and blossoms, cut nicely off, without damaging the stalk or root—and you will have seed of a large size. In this way, the improved varieties have been introduced.

Two pints will sow about 180 feet of row.— Continue to sow till late in the season—and if you get a return from your latest crop only equal to the seed, you have a fresh vegetable.

feet occurs, (in this a row or two of spinage may be sown.) This is useful for proper ventilation, and you have proper access to pull the peas carefully, without breaking down the straw. By the or drills about three feet wide. City and good bye, this matter of pulling with care, is an object loamy soil answers best for them, and it ought to worthy of more particular attention than it generally meets with. For if the plant be torn up by the "When beans arrive at full bloom, (says the root, or partially broken, of course all the pods Kitchen Gardener's Instructor,) and the lower that are in a state of progression, advance no far-

answer for 60 feet of drill. Beans are frequently observed to thrive well for a time, till they are in bloom, and then fade quite away, and the blosmay depend upon it, when this occurs, that your soil is not of sufficient depth for beans. This plant has a very long root, and if it he stopped from penetrating to a sufficient depth, on account of the subsoil being hard, or what is commonly called pan, the plant derives no farther nourishment, and naturally pines, withers and eventually dies, or, what is the same thing in effect, produces no return. Deep or trench digging, and subsoiling, with a thorough under supply of manure, is the only sure and effectual remedy.

Of Kidney Dwarfs .-- A regular succession ought to be kept up all summer, and these require to be earthed up like peas. One quart of seed will sow 250 feet of drill. The seed of all kinds of beans also, ought to be well steeped before being put into the ground.

3rd. Of Cabbages.—If you neglected to sow a little seed at the proper season, procure some frash and healthy plants; your ground being previously well prepared and, manured, lay it off into cross rows varying in width, as under noted, according to the kind you mean to cultivate. The Early York, the Dutch, and the Sugar-loaf are good small early varieties, and require, about two feet between each plant, while the late York, the Drum-head, and other large varieties must have three, -and rather give them more, than less room. It is a good plan to plant them in a diamond shape, so that each plant in one row, shall not be opposite that in the next, but zigzag ways. The mode of planting, is, by making a deep wide hole with a dibble, into which the root can be introduced, so as to go down to the bottom without being squeezed or broken; you meet the plant into the hole by one hand, (at the same time holding up the leaves by the fingers of that hand,) and then with the dibble held in the other, at first gently, and afterwards firmly, press the fine mould into the hole, and around the plant, till you find that on pretty strongly pulling one of the leaves between the forefinger and thumb, the plant is not drawn up. The heart must on no account be choked or smothered; nor the roots twisted or broken. By and bye, when they have taken with the ground, come stunted, they generally button, instead of

this will promote the swelling of the pods, as well the plants ought to be hoed, and afterwards as their early maturity." A quart of seed will earthed up. Many of our readers may think these directions are too trivial and simple, and already well known; but we write for all, and we distinctly assert, that careful and correct soms drop off without producing any pod. You planting is well deserving of being pointed out and strongly inculcated, as on it the success of the crop depends much more than is generally imagined.

4th. Of Broccoli .- Varieties .- Early white, early dwarf purple; early green, dwarf brown, large late purple, large purple cape, white cape, or cauliflower, sulphur-colored cape, branching purple, large late green.

The several varieties of brocooli and cauliflower may be justly ranked among the greatest luxuries of the garden. They need only be known in order to be esteemed. The broccoli produces heads, consisting of a lump of rich, seedy pulp like the cauliflower, only that some are of a green color, some purple, some brown, &c., and the white kinds so exactly resemble the true cauliflower, as to be scarcely distinguishable, either in color or taste.

Broccoli is quite plentiful throughout England the greater part of the year, and it is raised with as little trouble as cabbages are here. The mode of raising the purple cape breccoli is now generally understood in this part of America; but the cultivation of the other kinds has been nearly abandoned, on account of the ill success attending former attempts to bring them to perfection.

The proper time for sowing the seed of purple cape broccoli, is from the tenth to the twentyfourth of May.

It has been proved by repeated experiments, that the purple cape broccoli succeeds better in our climate than any other variety; and, also, that if broccoli or cauliflower plants be retarded in growth by extreme heat, they seldom arrive at full perfection. It is, therefore, important that the time of sowing the seed of cape broccoli be so regulated as to allow, say six weeks of the summer, for the plants to grow in, previous to their being transplanted, and about seven or eight weeks between that and the commencement of cool autumn weather, which is essential to mature

If seed he sown much before the middle of May, or so early that the plants arrive at full growth in the heat of summer, and thereby beforming perfect heads of flowers, and are consequently of no use but for cattle.

In order to insure good stout plants, let the seed at this season be sown in a moderately shaded border. It is best to sow it in shallow drills. drawn three or four inches apart, in which case, one ounce of seed will occupy a border of about four feet in width by twelve in length, and produce about four thousand strong p'ants.

In the beginning of July, or when the plants are of sufficient size, they should be transplanted into extraordinarily rich ground, which should be previously brought into good condition. This being done, plant them in rows two feet and a half apart, and two feet distant in the rows. soon as they have taken root, give the ground a deep hoeing, and repeat this two or three times in the course of their growth, drawing some earth around their stems.

These plants if attended to as directed, will come to perfection early in September and in October; the other kinds will produce their heads spring months.

5th. Of Cauliflower,- Varieties,-Early white, late white, hardy red, or purple cauliflower.

This is a first rate vegetable, to obtain which, great pains must be taken in every stage of its growth, the extremes of heat and cold being very much against it: which circumstance accounts for good Cauliflowers being scarcely attainable in unpropitious seasons, and which the novice falsely attributes to defectiveness of the seed

To produce early Cauliflower, the seed should be sown between the sixteenth and twenty-fourth of Septembes, in a bed of clean, rich earth.

In the early part of May, Cauliflower seed may be sown in the open border, in drills, as recommended for Broccoli, and one ounce of seed will produce about four thousand plants. These plants; should be picked out in June, and transplanted into good ground early in July, to flower in Au-

Carliflower, and also Broccols, should be gathered while the pulp is close and perfect. having trimmed off some of the outside leaves, let them be boiled in plenty of water seasoned with wilt, taking care to skim it, and also to case the cover of the pot so as not to confine the steam. Take them up as suon as the fork will enter the kind of plums are cut off by t e Curculio. minutes, according to their size and age; drain merous as this year."

them so as to make them susceptible of absorbing a due proportion of gravy, melted butter, &c. This renders them a palatable and dainty dish.

Haymaking.

On fo, mer occasions our views on havmaking have been fully given, and the process recommended mainly consisted of the following particulars: 1st, To put the newly mown grass, as soon as it will admit of it into small cocks, in which state it will cure, in periods of from three to four days, by being turned out once or twice to the sun, for a few hours in the middle of the day; to mix layers of straw with the hay, in its half cured state; and to use about half a bushel of salt to a ton of half cured hay, when it is being put into the stack or mow. methods have been severally tested by ourselves, and they are well adapted to secure the natural colour and flavour to the hay in regular succession throughout the winter and crop, but neither of them are equal to the following method: As soon as the grass is mown, it should be spread evenly over the ground to dry, or cure, as is the term usually employed, and about the close of each evening, by using a horse-rake of the most ap. proved description, the whole should be put into cocks averaging about one cwt. of cured hay each. The following morning, if the the weather be fine, the cocks should be opened out, and after being exposed a few hours to the sun, it will be in a fit state to put into stack. This is the common practice of the best farmers, and, in our judgment, it is the cheapest and best method of curing hay.

> The British American Cultivator, published in Toronto, is one of those excellent public tions that confer benefit on all by whom they are read. The editor, Mr. Edmundson, himself a practical agriculturist, is deserving, and no doubt receiving, the thanks of hundreds who derive much pleasure as well as profit from his valuable publication." It is worthy an extensive patronage. - Far. & Mech.

The Ohio Cultivator observes, "all the finer stems easily, which wilt be in from ten to twenty have never knewn these and other insects so nuThe Weather and the Orops,

Weather .- In this part of Canada, very variable weather has for sometime prevailed,-and strangers, who have heard much of the great heat that usually occurs, observe, with an expression of wonderment, " Is this the hot summer of Canada?" Sunday and Monday, the 30th and 31st of May, were particularly cold, wet, and stormy. During about two weeks in the beginning of June, summer partially returned; but the 14th, 15th, and 16th, have been more like days and nights early in spring or late in autumn, than midsum-On the first of these days particularly fires or stoves in rooms, were pretty generally lighted up in Toronto, and upper garments were in requisition, and in some parts of the Province snow is said to have fallen!

Crops.-The reports of the wheat crop, a great breadth of which, we believe, was this year sown in Canada, are very various. In the neighbourhood of this city, and many other localities, the wheat, both winter and spring crop, is luxuriant, the fall crop was thrown out by the frosts, during root, or so shrunk up or shrivelled at the same and after our open winter, and the fields so dam- part, by the extraction of the sap, by these grubs, oged, or rather destroyed, have been ploughed up of which we observed from seven to thirty on and resown, much to the cost of the farmer. The Grub (we believe of the Hessian Fly) is in some places very general and destructive. In fact, the reports from one part of the Province are quite the reverse of those we receive from another,so that a report that would answer for all the Province cannot be furnished.

We had calculated ere this on receiving authentic information both on the weather and state of the grain and fruit crops, as well as on many other points, from all our agents in the different districts, but have been disappointed in crop being reaped with benefit, ought speedily to some cases. By next number we trust this defect will be remedied; as to which we shall make much ahead; in fact, nothing else can now be a point of again corresponding with these agents. | done with them; but there are many Farmers-In that way we contemplate being able to issue who will trust to their yet recovering, and they in each number a well digested report for Cana- will find out, when too late, that their dispositions da generally, which will prove both useful and have been too sanguines entertaining.

Wheat, our staple crop, has, during its progress, to pass through many trials and to encounter the attacks of many enemies,—the next, and three or tour strawberry leaves, eaten green, are usually most destructive when it prevails, is that an immediate remedy for dysentery, summer generally known as "the wheat fly," upon which complaint, &c: some remarks from a correspondent appear in this We sincerely trust that a kind Provi-lbe correct.].-Con.

dence will, however, this season, graciously permit the wheat crop to come to early maturity, unskathed by the ravages of that little infect, or any other cause!

Since writing the foregoing, there is a very general outcry in this part of the Province, as to the damage done to the wheat crop, and we have satisfied ourselves, by personal observation, that this has been caused by the Hessian Fly and the Grub consequent on it, and that they have been very prevalent this season. Fields, which a short time ago, looked most verdant, are now becoming of a sickly, yellow hue, and dying away.-The damage is now irremediably accomplished, and no attempt can be of any use to save the crop. The stage of the active-living insect which did the mischief, is past, a few weeks ago; but the dormant larva, or flax-seed insect, can now be discovered in great abundance under the sheath, particularly at the first point of the stack, next the root, or in some instances will be found fallen to the ground. The stalk of the damaged and free from disease. While in others, much of plant will be found broken over just above the each diseased stalk, that consequently no sustenance could be conveyed up the stalk, and thus the shoot and the leaves withered and decayed. We recommend a reperusal by Farmers, of the communication in last number, on the Hessian Fly, from which, combined with personal observation, it will be found that Dr. Fitch's remarks are minutely correct, and that for his little publication and the investigation on which it is foundded, he deserves the greatest credit.

> Such fields on which there is no chance of a be ploughed up, to prevent weeds getting too

> Domestic Medicine .- The Albang Argus says,

[This has often been found in the old country to

Oulture and use of Asparagus.

Way is it that this wholesome and delicious early vegetable is not more generally curivated i It cannot be owing to the expense or trouble, for a dime's worth of seed with produce plants sufficient for any one garden, and a few hours' labour is all that is required to prepare the ground, sow . the seeds, and afterwards plant the roots. difficulty, then, must be, a want of knowledge on the subject .- and to remedy this, in part at least, we copy the following directions, which are the best we have seen, from Landreth's Rural Register for 1847:

The Asparagus is a perennial plant, indigenous to Europe, found in stony or gravelly situations near the sea. It is generally admired, and has been long extensively cultivated, on account of its early maturity; being fit for the table very early suing season. in the spring, at which season very few vegetables. are to be had. It may be propagated from the roots, but raising from seed is decidedly preferable; which may be sown either late in the autumn, or early in the spring; the latter is perhaps the best.

The mode of sowing: - Prepare a rich, deeply dug piece of ground of the desired size, on which draw straight lines an inch deep, and twelve inches apart. Place the seeds about an inch apart in the lines or rows, and cover them even with the surface. Should the seeds vegetate freely, they will be rather close in the rows, and may be thinned to two or three inches apart, which will permit the roots to get strong. Our practice is to pour scalding water on the seeds twenty-four hours l before we intend planting them, in which they remain until put in the ground—the hard coating is thereby softened, and the seeds grow more readily.

During the season of vegetation they should be carefully wed, and the alleys between the rows frequently hoed and kept loose. The second year for when one year old if they do well] they will be fit for transplanting into the beds in wnich they are to remain. Such beds should be formed on ground not too wet; the earth having previously; been very deeply dug, and plenty of weil-roited manure incorporated with it, to the depth of a foot or more; as it is found that the sweetness and tenderness of the shoots depend very much on the rapidity of the growth, and this is promoted by the ground during the autumn preceding the spring in which it is intended to plant the roots would have a good effect; or it would be well in the autumn to throw the ground in ridges, that it may be exposed to the action of the frost.

covered, they will be three inches below the surface; the breadth of the trench sufficient to admit of the roots laying horizontally. Place them therein at intervals of nine inches, covering them with fine loose earth; thus continue to plant the second and third rows, and finish by straightening the edges of the bed, which should be done with line and spade; having previously raked the surface to remove clods and stones. In gardens, the soil of which is wet and heavy, the beds should be elevated a few inches above the general level. sandy or dry soils the roots do not require it.

As the season progresses they will need weeding and hoeing, suffering the staiks to run up to seed. In the autumn place a good covering of manure over the entire bed, which will prevent the frost from drawing them out, besides enriching the soil, and causing them to grow more vigorously the en-

In the spring take a dung-fork, and point or dig in the manure, observing not to go deep enough to such the crown of the plants. Proceed in like manner for three successive seasons, when [the third season,] the plants will have become strong enough to bear cutting; after which an annual top dressing of manure and forking of the surface, will keep the plants vigorous and productive for twenty or more years. The Asparagus is easly stimulated by saline application as for instance refuse brine from salted meat or fish-or by a direct application of salt itself-some cultivators use it in the culture of this esculent, and with the most satisfactory results.

The quality of this delicious vegetable depends in a considerable degree on its state or age when cut for use; much exposed for sale in market, is cut within the hour it peeps above the earth-and that portion only, (merely the extremity of the shoot) is tender, all below is sticky and comparatively worthless-it should therefore never be cut. until the shoots have risen four or six inches, when they will be green and tender. The market gardeners in the neighborhood of Philadelphia cover their Asparagus beds with straw or litter, so soon as they cease cutting. The plan saves labour by keeping the weeds down, and protects the plants from excessive drought .- Ohio Cult.

In winter the bed ought to be covered with well made stable manure.

This delicious vegetable (asparagus) was first introduced into England in 1608. It is now exthe richness of the soil. Digging and turning of tensively cultivated throughout Europe, and is one of the most desirable plants known.

The Organic Part of Soils.

That portion of the common earth usual'y de-The method of transplanting is thus - Layout nominated organic, is found by the agricultural the ground into beds four feet wide, with paths or chemist to vary much, both as respects quantity alleys between the beds of two teet width di- and quality, in different soils. In those of a penty vide the bed into three rows equi-distant, allowing conformation of character, it exists in great abuneight inches space on eith ridge, then proceed dance, and the same remark applies not unfreeight inches space on eith ridge, then proceed dance, and the same remark applies not unfre-to stretch or strain a line lengthwise the led, down one of the rows, and with a spade cut out a trench been long cultivated and strengthened by frequent so deep that when the plants to be set therein are and copious applications of invigorating manures.

chemically examined, have yielded from ten to beyond that of any mineral we possess. twenty per cent. of organic matters, and under ter, or twenty-five per cent.

than nine or ten paris of parely organic matter in upon upland, or the reverse; the addition of pare the hundred

in remarking upon this subject, says:

" Oats and Rye will grow in a soil containing ter, has generally the same beneficial effect. only one and a half per cent.; and Barley when very old pasture lands, and in gardens, vegetable are, even without the certainty of a scientific (organic) matter occasionally accumulates so as analysis, the productive substances have been to be injurious, and overload the upper soil." lobtained, and consequently that productiveness

This contingency, however, is one that need will be increased.

and better manured .- South. Cult.

Varieties of Soils.

Some of the most valuable improvements in modern agriculture proceed from the discovery, number, we neglected to thank our correspondent, that all plants do not exhaust from the soil, in the soil of Physics for his two letters. He which they grow, the same ingredients or com- Mr Fuller of Thorold, for his two letters. He ponent parts of it; and that no two plants of a will have noticed that we inserted them, and we different kind abstract the same proportion of each have now to say, (as we intended then to have ingredient.

Hence, beyond all question, it is established: state, fitted for the production of some one or for insertion or otherwise. other of the thousand plants that cover the earth; and 2d. That the addition to it, by human la- General.—Correspondents should inform us, bour, of those ingredients or substances of which whether or not, they wish their names to appear.

of plants that require those ingredients.

Carelul examination has also shown that silicious or flinty matter not only constitutes a large portion of all soils, but also the largest ingredient! in the composition of oats, wheat. Indian corn, portion of it entering into the composition of clover and corn.

of lime to soils, from which it is naturally absent, of trial:must confer upon them the power to produce those; unproductiveness of them was caused by its absence.

The same may be said of potash, soda, mag-

dients in most of the useful plants.

In this view of our soils, the presence of lime. in value to that of no other mineral; not even has never failed to effect a cure, and in many excepting coal or iron.

pensable to persons in every business, and as the proper application of lime to the soils which are and to many who were supposed to have been

Some of the most productive soils that have been cultural districts, the value of lime-stone must be

Nor does this good effect alone follow the addithe most favorable circumstances, it has rarely tion offine of any other single substance of which amounted, in the richest, to more than one-quar-ta soil happens to be deficient. The mixture of lentire soils with each other often has the same Some of the most productive wheat-fields in result. For instance, the carting of a octtain pro-Great Britain, have been found to contain no more portion of the surface of rich boggy or bottom land A distinguished agricultural writer, sand to stiff clay fields, or the application of any tother soil to one of an entirely dissimilar charac-

In all these cases, the applied soil being disonly two or three parts per cent. are present. In similar from that to which it is add ad, the chances

not be dreaded in this country, though it may! In this way there is great truth in the remark, sometimes happen in others where the soil is older, that, in the hands of a judicious farmer, almost tevery tarm contains, within its limits, the means of its own fertilization.—Exchange Paper.

To Correspondents.—Special.—In our last done,' that we shall be happy, at all times, to be 1st. That every kind of soil is, in its natural favored with communications from him, whether

General.—Correspondents should inform us, any soil is deficient will fit it for the production If they do not instruct us to the contrary, we shall take for granted, that the name is to be inserted.

A simple cure for Dysentery, which has never rye and barley. It also demonstrates that certain failed .- As the season in which this complaint is other substances, of which lime is always one, are most prevalent, is near at hand, we insert the folcontained in these and other plants, a very large lowing, cut from the Caledonian Mercury, a standard Edinburgh paper, which does not publish From these facts, it follows that the addition trumpery. The plan is simple and easy enough

"Take some butter off the churn, immediately useful plants, especially corn and clover, so far as after being churned, just as it is, without being salted or washed; clarify it over the fire like honey. Skim off all the milky particles when nesia and certain acids, all of which are ingre-melted over a clear fire. Let the patient (if an adult) take two table spoonsful of the clarified stone in large quantities in any country, is second remainder, twice or thrice within the day. This cases it has been almost instantaneous For, as the productions of the farmer are indis-laiready succeeded in nearly one hundred trials, destitute of it, will convert them into frunful agri-lat the point of death, it has given instant relief."

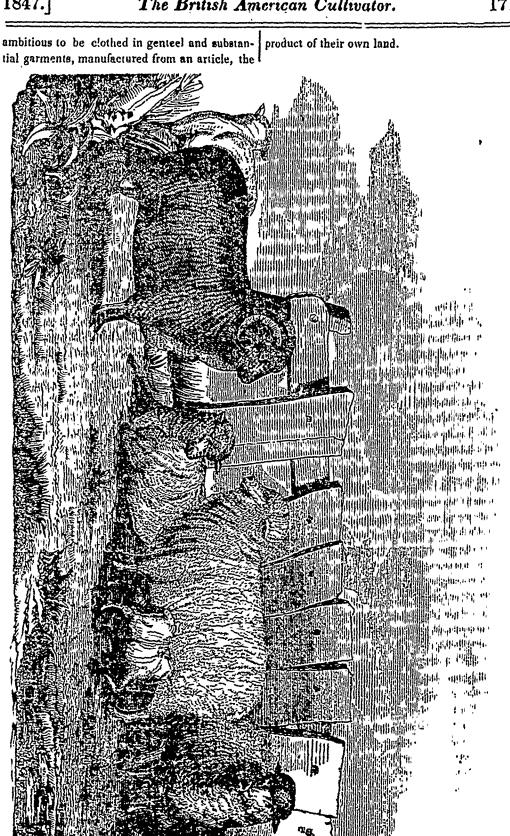
Merino Sheep and Wool.

The accompanied drawing is a correst representation of three thorough-bred Paular Merino Sheep, owned by J. Jones, Esq., of Cornwall, Vermont, which were exhibited at a late Show of the New York State Agricultural Society, and which, in our opinion, in connection with a flock of thirty Rams owned by the same gentleman, were among the best specimens exhibited at that Fair. Canadian Farmers have been long under the impression that Merino Sheep were not hardy, and would not thrive well during our cold win ers. The experience of the farmers of Vermont have sufficiently proved that this opinion is ill-founded, as the climate is more severe in that country than it is in this , and besides, sheep, like men, are animals capable of adopting themselves to nearly every climate, especially when properly managed.

Since the manufacturing of woollen goods has been in operation in Canada, and consequently a ready cash demand for fine staples of wool, some farmers have been induced to import Merino bucks from the United States; and as far as we have been able to learn, the progeny from these animals have given great satisfaction to their owners, especially when the cross was made with Lencester ewes. This experiment has been tried by ourselves, and so far it has been attended with The demand for fine samples pleasing results of wool is at this time both certain and remunerative in Canada, but owing to the exclusive encouragement that has been given to the breeding of Leicester and other long-woolled sheep by Canadian Agricultural Societies, a supply cannot be had, unless we go to the United States. can form no est mate of the quantity of wool that will be imported into Canada, from that quarter, in the present season, but we should judge it to he large, from what was lately told us by -Mackechn'e, Esq., the proprietor of the Cobourg Woollen Factory We understand that this establishment alone will import, from the State of New York, no less than Ten Thousand Dollars worth of American Merino and Saxony Wool, during the present season. It may not be thought out of place here, to mention the fact, that the above factory turns out a great variety of beautiful fancy patterns of gentlemen's summer clothing, manufactured from American wool, which

with such good taste, and with such a superior finish, that it would require a very good judge to distinguish the difference between them and a first-rate quality of British woollens; and the demand for them is rapidly increasing, especially by our first-rate gentlemen in the country, who are now, we are happy to say, since protection is removed from our breadstuffs in the British markers, determined to encourage Canadian manufactures and Canadian enterprise. It is wise to foster this feeling in the Province, to the greatest possible extent, as Canada will evidently be obliged to protect her own interests, which she may do with great effect, by giving a united and a hearty support o the infant manufacturing establishments, and to men of enterprise who may establish themselves among us, by which means a permanent home market for our agricultural products will be established, which, after all, must be considered the best for a new country, situated as this obviously is, on which to rely.-The annual quantity of woollen goods that might be profitably manufactured in Canada, cannot cost less than the sum of Two Hundred Thousand Pounds, and it would be a very important step towards encouraging capitalists to employ their means in the extensive manufacture of woollen goods, if our farmers would turn their attention to the growth of fine wool.

The very finest and most hardy breeds of fine woolled sheep may now be had in the neighboring States, at a very low price, when compared with what was formerly paid for specimens which were of a very inferior quality to those now generally found in the Northern and Eastern States. The Canadian farmer, when he makes up his mind to engage in the business of growing fine wool, will not be under the necessity of embarking in a speculation or of giving prices for his sheep, that the increased value of wool would not fully warrant, and this, in our opinion, is a matter of the very greatest consequence to those who are determined to import the improved breeds of fine woolled sheep. The only hindrance that now occurs, to pievent the farmers of Canada from engaging extensively in the production of fine wool is, the duty which is levied by our Government on sheep. This, in our opinion, should be speedily removed, masmuch as manufacturers are now prepared to establish a permanent and refind ready sale in Toronto and other large cities munerative market for fine staples of wool, and and towns in Canada. These goods are got up better still, the people of all classes appear to be



On the best mode of Feeding Cattle.

BY PROFESSOR JOHNSTON.

The following is the substance of a lecture delivered at Inverness, before the Highland Society of Scotland. Alter a few preliminary observations, the lecturer observed :- That he appears Agricultural Chemistry Association of Scotland. They had all heard of that Association, and many of them were members of it. The object of the Association in having this meeting was two-fold. Every one, acquainted with the state of agriculture in different paris of Great Britain, cannot have failed to observe certain practices in operation, in various parts, of which agriculturists in general might profitably avail themselves. By going into different counties, they found practical men nossessed of knowledge, the diffusion of which would be of the greatest possible advantage to the general mass of the agricultural community. Now, the purpose the Agricultural Chemistry Association had in view-in connection with these general observations-was to collect all the information in their power, through their officers or organs, or through meetings such as this; and having collected that knowledge, their next object is to diffuse it in such a way as to be productive of the most beneficial results to agriculture in general. Like scattering seed through their fields, the diffusion of that knowledge would produce vegetation in spring, and fruit in autumn, and the more liberal the deposit, the more abundant the return. They were here met together, consequently, in possession of a mass of knowledge in regard to the objects of the Association, so that the agriculturist present might and the inthe diffusion of knowledge. In selecting topics for discussion at these meetings, they looked at the character of the country, and enquired of practical men in the district, what topics were best suited for the purpose of affording useful infor-mation; and as the question of use of prepared food for cattle was one of very general interest in this as well as in other parts of the country, it was to form the first subject of this morning's conversation. The second subject, on the other hand, being one rather pastoral than agricultural, had a direct bearing upon questions of great interest to the firmers of Sutherlandshire, and in other districts around Inverness, and in this respect was pecuharly appropriate. In reference to the first question -the feeding of cattle-no district in the islan! was more interested than this. He could not tell them how much stock was shipped from Inverness last year, but he trusted Dr. Nicol. or some other gentleman, would be able to furnish them with information on the subject. He believed, however, it was to a very large amount indeed; an I he had no doubt but it was increased since, by the greater facilities of communication with the London and other markets. As a cattle

food, must be of the very greatest importance; that is, in what way they could grow the greatest amount of beef or mutton at the least expense. This he was prepared to show was to be effected by the use of certain mixed food, and prepared food. An individual going from one end of the country to another to observe the state of agriculture, will look not merely at the kind of stock, but before the meeting as the representative of the he will more particulary observe the implements of husbandry in use throughout the various districis. In order therefore, to form an estimate of the degree of attention paid to this matter of prepared food in England, on his visit to Newcastle, at the great cattle-show recently held there, he turned his attention particularly to the examination of the implements exhibited, having a bearing upon this point. Amongst these he found chaffcutters, a peculiar machine for crushing corn and other seeds, and other instruments; all showing how much regard was being paid to this subject by practical men. There was no doubt but that the subject of the quantity of food which cartle require to produce a certain weight of beef, was beginning to attract general attention; but before he entered upon the few points which he meant to notice in connection with this question, perhaps it would be necessary to explain shortly the general composition of food. In all kinds of bread there were contained three different kinds of matter. First of all there was a certain quantity of fat, which the butter they are represented; secondly, there was a certain amount of sugar; and then there was besider, the third constituent, which was represented by the white of an egg. Now it was of the very greatest importance what description of food was used, and what proportion it contained of these three kinds of matter, as bearing upon the purpose it was intended to serve. Cattle had in their bodies different kinds of mutter, also, but particulary flesh and fat; and the farmer should be sufficiently acquainted with the nature of food, to be able to distinguish what he should use when he wished to produce fat, or when he wished to produce fat and lean both together; and the food which was given would effect the one or the other of these purposes, accordingly to its composition. The white of an egg or albumen would supply nothing or nearly so, to the animal but muscle. The fat went directly to form fat. The starch in food kept the body warm, and when fat was wanted served the purpose of making the oily matter more readily become fat in the body of the animal.

Now, in fattening cattle, as in everything else, using proper means produced the proper effects; and after the explanation which he had given, they would see at once that a mixture of food was better than the use of one kind alone. If they wanted to lay on muscle, they would feed with food containing the largest amount of gluten; and if they wanted to lay on the fat, they would give starch and oily substances, and only a small proportion of the other ingredient. Selecting food importing district therefore, the extension of sound in any other way would not serve the purpose information in regard to the economical use of they had in view in the most economical way.

habit of using; but he would illustrate what he tention, practically, to the effets of feeding stock had to say by a few simple illustrations. had to say by a few simple illustrations. Wheat with mixed food, and to feeding on linseed, was contained two per cent. of fat, and sometimes a Mr. Warnes, of Frimlingham, Norfolk, and he little more; but oats contained sometimes from four to five per cent, or about double the amount ciples on which he proceeded; and they were which was to be found in wheat. Outs were next sound scientific principles. He commenced by to Indian corn in this respect, the latter of which they were aware contained a large amount of fat. Gluten was the matter out of which the muscle was produced, and there was more of that substance in the bean or the pea, than in the oat; but the oat was better than wheat. But there well. With this food the cattle throve, and acwas unother kind of food used for fattening cattle, quired beef in an extraordinary manner. By this namely, oil-cake, which contained a greater system of feeding, Mr. Warnes said he could amount of fat than the same weight of any other kind of grain. Linseed, from which oil-cake is made, differed from other descriptions of grain, in containing a greater amount of fat, and a larger amount of gluten likewise, with the exception of Now practical men have derived great, advantage from feeding their cattle on oil-seeds; that food, from the peculiarity of its composition laying on fat and muscle at the same time. Qilcake, however, was the best food, only when the greatest amount of fat was required; and according to the purpose which they had in view, farmers would give their cattle other descriptions of food. It was a remarkable circumstance, that the bean and pea contained very little fat, and as the wheels of the animal system required to be greased, these kinds of grain would not serve for that purpose, although they contained what made muscle. Although beans and peas were good food, therefore, they were not good as the sole food Besides, they would observe, that from their different constituents, plenty of oilseeds, and plenty of beans and peas, would be far more profitable than if they were to give either of them singly. That was the principle upon which the use of mixed food was founded-to give all the substances the animal required, and to give them at the cheapest rate; and the researches of the scientific man were directed to discovering the means by which these objects could be best accomplished. He had selected oil-seeds, but he might have taken potatoes or turnips for his illustrations. He had taken the oil seeds, however, because very great attention had been recently! directed to the value of those seeds in the feeding of stock, and to the culture of flax which they knew was advancing with great rapidity in the neighboring country of Ireland, and which was even progressing in England, at a great rate. He might mention a remarkable fact connected! with the improvement of the flax cultivation in the encouragement of that cultivation, and which had its seat in Beliast, had an annual revenue of between £2,000 and £3,000; while the income of the Royal Agricultural Association of Ireland

He had a table representing the different propor- crops would be useful in other parts of the countions of fat in the food which they were in the try. The person who had most directed his at-(Professor J.) would point out to them the prinboiling the linseed in water until it formed a kind of jelly; then he stirred in a quantity of cut straw The mixture was and chaff, and crushed corn. then poured into moulds, and afterwards served to the cattle warm, which they liked remarkably compete with any man, whether foreigner or not, as he could send cattle to Smithfield for 41d. per lb, and pay him an ample return; and in illustration of this, he gives the results of two experiments, which he would read to the meeting, and which were as follows:

Since he followed out box-feeding, he knew not a single instance where he had not realized 81. for every head of cattle he had kept for six months At the farm where he now resided, he had reared for market the following cattle, after only six nontha hox-feeding

		0010		
_	for £20 each	40	0	0
	Scotch steers, cost £10 each, soll	_		
1	Cow, cost £5 5s., sold for £15,	9	5	- 0
	sold for £22 10s. each	84	0	0
6	Scotch steers, cost £8 10s. each,			
	£19 10s. cach	£77	0	0
7	Durham steers, cost £8 10s. ea			
III	outre pox-reentifg.			

£210 15

The above cattle were bought in and disposed of within six months. They consumed, with the following now in herd, nineteen acres of turnips, about fourteen quarters of linseed, and a few bushels of barley-meal with several acres of pea-

3 Durham heifers, estimated value above the

cost price,	1,22	TO
2 Irish steers	13	0
5 Small steers and heifers,	30	0
3 Calves, and butter from two cows	11	0
	£76	10
Deduct for 14 grs. of linseed, mostly		

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for barley, £4,....

£37 10

In reference to Mr. Warnes's experiments, too, Ireland, that a society which was established for it is to be observed that the value of the manure was very much increased in comparison with that derived from the ordinary method of feeding. But, besides this, there was another method of feeding of which he would speak from personal observation was less than one-half of that sum. From the and which he had witnessed in the neighborhood progress the cultivation of flax was making in of Northallerton. He went to that place because Ireland, it was very deserving of attention by he had heard that Mr. Marshall was keeping donthose who thought a change in the rotation of ble the amount of stock, with the same quantity

of turnips, that he had been in the habit of doing only two years ago; the other food used being ground oats, barley, rye, and old beans, and chopped hay, instead of straw at times; but the cattle did best with the straw. Hearing, as he had stated, that Mr. Marshall kept double the stock on the same amount of turnips, by his system of feeding, he-Professor Johnson-was very anxious to see the mode of carryng his system into operation, and went down to Yorkshire for that purpose. There he saw about 200 head of cattle feeding, a portion of which was so off every week, and their places supplied What struck him as very remarkabe, by others was the state of absolute rest in which he found the cattle. There was not a single beast upon its legs, no motion was observed, which, they were aware, was a circumstance favourable for fattening connection with this subject he get the following information, and in order that they might fully understand it, he would present it in a tabular form. It was as fellows:

Linseed, 2 lbs., boiled for three hours in four gallons of wa er; cut straw, 10 lbs.; growing corn, 5 lbs.; mixed with jelly. To be given in two messes, alternately with two feeds of Swedes. Now, the mode in which the linseed was boiled, was of considerable consequence. In the first place it was boiled for three hours. The jelly was then poured upon crushed grain and cut straw, much in the same manner in which a man made mortar, being mixed together with a shovel and allowed to stand for an hour. It was then stirred again, and after a lapse of two hours it was given to the cattle in a hot state, and the result was, that if the anim Is are fed regularly on this kind of food and turnips alternately, they remain in a state of extraordinary quiet. become exceedingly fond of it, and commence bellowing whenever they hear their neighbors being served before themselves The practice was to give them a med of the linsced mixture at six in the morning, turnips at ten, another mess of Imseed in the afternoon, and turnips again in the evening. When he saw them first in the morning, it was after they had got their mess, and he was much as inished to see them, on visiting them on the second occasion, when they were alon the que vive for their meil. Two things were to be observed in regard to this system of feeding - first, that it consisted, in addition to turnips, of a mixture of grain straw and inseed in certain quantities, given hot; and the result was double the amount of stock kept on the same mount of land. The proportion of turnips which could be grown upon a farin, usually determined the amount of stock a min might keen; and if by an improvement in the system of feeding the quantity of cattle could be doubled, by turning the money twice instead of once within a year, the farmer would obtain double the profit. But this was not the on y advantage; he would double the manure which he made at the same time, which would contribute very much to the fertility of his land; he being enabled, by the use of this linseed, to return more than he took out of it. The proportion of the food had other important consequences in regard to manuring the soil. The crushing of

minutest particles, made the substances of which they were composed more easily assimilated to the food of plants, and made in better manure, because of the extreme division which it had undergone. Now they would observe that, by having this large additional amount of manure, they would get larger crops, and introduce a system which would go on annually increasing the amount of their produce, and consequently the amount of their profits. would enable them to farm higher, and by farming high, they would keep that place which, he was sure, they now occupied in the history of the world. He would likewise direct their attention to the use of linseed, and the preparation of food, as being of great value in keeping working animals in good condition; but on this point he would not detain them by giving a special detail of tacts, as the same general principles applied in the one case which applied in the other. As he had occupied the attention of the meeting at considerable length, he would conclude for the present, reserving any additional remarks which he had to make, and the replies to any questions which the company might think he could usefully answer, until after the general discussion had ended .- American Journal of Agriculture and Science.

District and Provincial Boards of Agriculture.

In a country whose Agriculture forms the basis of its wealth and greatness, the proper means should be employed to develope its varied natural resources to the greatest possible degree. If the inhabitants of such a country simply content themselves with producing sufficient breadstuffs and other agricultural products, for the wants of its inhabitants, commerce, as a matter of course, must become shackled, and men of enterprise will not be encouraged to invest their means in operations, which will require on their part much risk, and consequently the money of the country will be complete'y exhausted in the purchase of many articles which could be profitably manufactured or produced at home. To remedy these evils in some measure, the collective wisdom of the nation should be brought to bear, in devising the best means of promoting improvement, and in developing the various resources of wealth with which this country may abound. On former occasions we have brought the claims which Agricultural Societies have on the attention of all classes of the Canadian population, believing that in this country the agricultural interest is decidedly the most important, and the one which the finger of nature evidently points to, as being that by which Canada may, by the properly directed exertions of her people, be raised to the highest the grain and seeds, by reducing them to the rank among nations. We consider that these

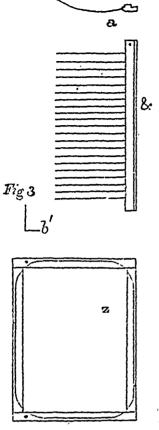
exertions cannot be more practically and efficiently put into operation than by means of well organized and properly conducted Agricultural Boards and Societies. The manner in which these Boards should be organized, is a subject not yet sufficiently understood by the Canadian spent by them in their service. In this way we agriculturists, and we therefore have been lately would have District Boards of Agriculture in urged by a number of friends to submit our views, so that it might become a prominent subject for Canada—or, what would be decidedly better, one discussion, and thus be brought directly under for each great division of our Province. the notice of the Legislature during its present different Boards could meet half yearly; or as session. Our views have been frequently clearly otherwise arranged; and their Officers could beexpressed, in the former volumes of the Cultiva- inclicially correspond with each other, -of course tor, as to the best mode of organizing and sup-all as directed by the Act of Legislature constiporting Agricultural Associations, but the most tuting them. comprehensive view we have given, was published in the December number of the second volume ing improvements in agriculture will receive favoof our magazine, new series, 1846. We would refer all interested in this subject, to that paper, as they will there readily perceive that the their various representatives, so that the subject groundwork of Agricultural Institutions should may, during this session, be taken up and carried through Parliament, and the hands of Government strengthened. In conclusion, we look upon that she could derive a large amount of benefit from the improvements of other countries. system of organization recommended in our former article, if it were efficiently carried out, would prove a great blessing to this naturally fine country; but we very much apprehend that it would be found too cumbersome, or in other words, too difficult to manage, because the people, and especially the Agriculturists, are not sufficiently awake to their own and their country's best interests. After carefully examining the different modes of organizing Agricultural Boards, we have much confidence in stating, that the most feasible system yet proposed, is that of constituting our District Councils into Boards of Agriculture, by Act of Parliament. These Institu- taken to have some of these mills ready for tions are now highly approved of by all classes, the market the approaching season. Aland any suggestions or plans that might emanate though there has been much improvement from them, would be apt to be favorably considered by all parties interested. In our judgment the cause of Agricultural Improvement would rethere improvement. The great requisite in many an implement of this kind is, that it should be apt to be favorably considered in Winnowing Machines, within the past the few years, still there is great requisite in many and the improvement. The great requisite in minimum of this kind is, that it should be apt to be favorably considered in Winnowing Machines, within the past few years, still there is great room for further improvement. The great requisite in minimum of the past that it should be apt to be favorably considered in Winnowing Machines, within the past few years, still there is great room for further improvement. ceive a powerful sumulus, if District Councils thoroughly clean the wheat and other grain were made Boards of Agriculture, and authority from the chaff and all impurities, and make given them to appropriate as large an amount of it in a fit state for the market at one operathe District revenue, for the various purposes of tion. improving the agriculture of the country, as is given to each District, from the Provincial Revenue, for a like purpose. The Provincial Board of Agriculture might, with some propriety, be exceedingly profitable harvest, from his imcomposed of the Wardens of the several District portant improvement.

Councils, as soon as these Councils are, by Act of Parliament, constituted Boards of Agriculture. To ensure the practical and efficient operation of these Boards, the working Officers of each must be remunerated for the labor employed and time each District; and also a Provincial Board for

We earnestly trust that this mode of encouragrable consideration at the hands of the people, and that they will, as soon as possible, let their approval of it, or something better, be made known to such a system as that above mentioned, as being The one which would decidedly and advantageously effect the object contemplated, and from which much, very much good, would assuredly result to Canada, and that on the soundest basis, and at the most moderate cost.

Improved Fanning Mill.

A description, with drawings, of an Improved Fanning Mill, will be found in another portion of this paper, which we are of op nion is much superior to the ordinary mills in use in the country. The inventor and manufacturer, Mr. F. G. Willson, has taken the proper steps to secure the Patent Right for the Province of Canada, and we understand that the necessary means will be The inventor is of opinion that his machine possesses this requisite and rare quality, and we heartily wish, for the good of the agricultural community, that it may so turn out, and that he may reap a rich and



To the Editor of the B. A. Cultivator. SIR,-

Not forgetting my promise, I send you a working draft as correct as the scale will permit of my Improved Fanning Mill, for chaffing and cleaning thoroughly at once through. Fig. 1, shows the outside elevation, and fig. 2, a vertical section, as the Mill would appear divided through the centre, in which is seen the hopper, a; the shoe, b, that contains the fork, c; coarse seive, d; board slide between the sieves, e; nearly semi-circular strip of sheet-iron, f; fine sieve, g; screen, h; cross bar, i; suspending rods and staple, k; bolt for holding up the shoe, l; tail slide, m; screen lide, n; screen drawer, o; head slide, p; side poard to prevent the escape of wind outside of the eives, q; boards for producing two strong and eparate currents of air, r and s, faces t; cast on plate, and wheels inside of the Mill, u; the creen drawer with the handle for pulling it out, ppears at v, fig. 1; inch battens to strengthen he Mill, and form handles, w and x; shaker, y; eive frame, z; fig. 3, fork shown separate, &c; nd view of fork, a'; hook for holding in the eives, b'; the frame work of the Mill is so sim- | Saltfleet, 6th April, 1847.

ple and common-place, that it will be easily under-The wheels are put inside the Mill, partly let into the wood, and covered with a cast-iron plate, as being snugger and protected from dust. As the grain falls on the shoe of the hopper, it shakes through the fork which carries off the straws and greater part of the chaff, and passes through the coarse seive, falling on the slanting board slide, e, where it runs off, and is turned by the sheet-iron, f; on the fine seive it then falls on the screen, h, and comes down the head slide fit for market; the screenings fall on the board the screen rests on, and shakes off upon the screen slide into the drawer, The seives are made to fit snug in the shoe without any grooves, and rests on pins at the inside edge, the outside edge rests upon the hooks, b', fig. 3, on each side; the end, b', goes through the hole in the frame, z; the other end of the wire goes into any of the holes, dotted at c', and both seives can be raised or lowered accordingly; the whole of the shoe can be raised or lowered by the holes in the top of the suspending rods, k. The seive frames are § of an inch in thickness, made of hard wood, and bevelled in on the top side where the wire tacks on, and requires nothing more to keep the grain from falling over the inside.

The proper size for a coarse seive is 19 wires to the foot; lower oats seive, 35 to the foot; for wheat, 53 to the foot; for a screen, 95 to the foot, wires of the size commonly used. The fork, and fig. 3, is made of 1 inch wire, set 1 inch apart, and ships in a whole end at a time, and held fast by the wire and staples at b. The board, r, produces a separate current for the fine seive, care being taken, that it be the proper width to divide the force of wind nearly equally, if made too wide, it will cut off all the wind from the upper seive. This Mill should have seven or eight seives, some fine enough for clover seed. clear inside width of the Mill is 31 inches; the inside of the shoe, or breadth of sieve, is:24 inches, and 19 inches deep. This Mill will be found to answer every expectation, if properly made, and may be constructed by any mechanic, from the plan given. Should I find it convenient, I may send you a drawing of what I shall call, "the magic cast-iron gate," entirely self-acting.

1 am, yours respectfully,

Francis G. Willson.

On the Wheat Fly.

Sir,-

In your last number are inserted some observations of mine on Dr. Asa Fitch's pamphlet, on the Hessian Fly. I then stated I would probably send you some remarks on the other insect named in the prefix, at the proper season .-As that season will have arrived by the time this this number of the Cultivator gets into the hands of your subscribers, I cannot do better than now call their attention to the wheat fly.

I observe in your volume for 1846, page 140, you published the learned and interesting Essay, by the above well known writer, on this destructive insect; and as I believe the Dr. has therein brought before us everything that is yet known on the subject, my sole object in now addressing you is merely to recall attention to it at this season, at which many of the habits and transformations of the insect can be noticed, and in which it commits the very serious damage that it does.

In writing my last compilation-(for it has httle pretence to be called anything else)-I stated that the Hessian Fly deposits its eggs on the blades of the wheat plant, and that the damage caused by the grub hatched therefrom, is at the first and second joints of the stalk, under the sheath of the plant. The operations of the IVheat Fly are entirely different, and this proves it to be distinct insect, though some would assert they are identical. It lays its eggs in the ear of the wheat. Previous to that time, viz. from about the middle of June, up to the middle of August, it may be observed. In Scotland it has become but too well known; and the ravages it has there, in particular districts, committed in some seasons, has been to an extent which some of your readers would scarcely credit-suffice it to say, that from onefourth to one-third of the wheat crop has frequently been destroyed. Two Scotch writers, Mr. Gorrie of Perthshire, and Mr. P. Shireff, then of East Lothian, are both noticed with much commendation by Dr. Fitch. I know that both in observing its operations. After alighting these gentlemen took every means, by careful the ear, the fly settles on the outer glume and inlinute personal observation, to discover the chaff of the kernel, inserts its ovipositor through origin and habits of this insect, and if possible, to the scale, and thus deposits its eggs, of a yello devise a remedy against its depredations; but I ish color, to the number of from six to tenam not aware that either they or Mr. Kirby the From each egg, in about a week after, is hatch Naturalist, who is also quoted by Dr. F., or the a white grub or insect, which, when full grow worthy and pains-taking Doc'or himself, have as is less than a tenth of an inch long, and become

may totally destroy this insect, or even partily arrest its ravages. This, of course, is the poi which is chiefly interesting to farmers. confident that some remedy will yet be devis by which mankind may be freed from this lit pest-and perhaps that remedy lies with hime as does. I firmly believe, the amelioration or prevention of every ill he originally brought up himself, and which he continues to propagate a increase. Be that as it may, this point, as a gards the wheat fly, is yet entirely open, thou no little anxiety and labour have been expende by Dr. Fuch, and the writers above-mentions and others referred to by him, among whom D Harris is deserving of special mention. lieve that the Wheat Fig has, in byegone yes been but too frequent a visitor in Canada; a from what I have observed of the intelligen displayed by many of the Canadians with who I have had personal communication, and the capacity for investigation and research, I in that such remedy has as good a chance of bei found out in Canada as elsewhere. At all even there is nothing to hinder Canadian Farms from applying themselves to the study of the subject, and communicating the result of the observations. In that way, and by comparis one account with another, the truth may yet arrived at.

I intended, in conclusion, to have given son of the remedies mentioned by Dr. Fitch, but these are fully detailed in his pamphlet, and marked on in your article referred to in the o set. I shall refer your readers to these papers, a recommend them to peruse them with care remarling, that the Fly can best be disco ered is the evening, or early in the mornis before the sun's rays have become powerful, or a soft, warm day, in which there is little st shine; and that during the day it generally ge down to the ground, or half way between ground and the ear. I may farther advantage ously recapitulate a few facts, which are mate: yet been able to give us any plan by which we lof an orange yellow color. From these chan

ubody, it will readily be recognised.

Farmers! This is the little insect which does so nich damage to the ear of the wheat, and by teedng on the soft kernel, destroys it either wholly rpartially; you may notice that many of these ternels in one ear may be so consumed; while thers, in the same ear, will remain quite sound. Now is the time to observe the fly, if it does exist, nd if it does, the deposit of the eggs, and the atching of, and destruction by, the grub closely blow. I say to all, watch and study the operaons both of the fly and the grub!

I am, &c.,

Scorus.

June, 1847.

Foot Rot in Sheep.

Mr. EDITOR,—Much has been said and written on this subject, one certainly of material interto the Flockmaster, and many remedies have en proposed. There is no doubt in my mind at the disease is caused by the ground being soft d wet, and the herbage too rank and succulent which the sheep are pastured. I have myself own a flock which was much infected with this wase on pasture of that nature, quickly getting of it, when removed to high and dry ground which there was abundance of rocky and stony il, on which they could skip and gamble. t often, however, in the power of the owner to ctuate a cure in that way, as he has no land pasture of the kind now described. When that the case, what must he do? Give up entirely kind hint so beneficently thrown out by nae? No, he ought to try and imitate nature as sely as he can. The plan most effectually to so is to pave or causeway with round stones a all portion of ground in his field, and frequently drive the flock thereon, and apply lime to their , which can easily be done by sprinkling it my thickly on the pavement. A weak solution blue vitriol and water is also recommended for foot rot. This may strengthen the foot and ve of benefit, especially if the parts have previly been kept thoroughly clean by poulticing bathing with hot water for a few days. disease is very infectious, care ought to be k, or even to put the former on pasture in tules appear.—Ex. Paper.

eistics, and the sluggish wriggling motion of which the latter has previously been ranging, though for, however, short a period.

I am, &c.,

A.

The Ohio Cultivator for June, says, " the wheat crop must prove light. In addition to the injury by the winter, the fly has done much damage this spring."

Re edy for Hydrophobia - The inventor was Dr. de Monita, Physician in ordinary to the King of Poland. He directs that the wound be covered with fresh snuff, in order to imbibe the saliva of the animal, then wash it with water. When the wound is thus cleansed, he orders that half a pound of butter be mixed in four times the quantity of vinegar, and that a compress of linen be steeped in this mixture, and often applied to the wound for nine days, after which it may be discontinued.

Besides the topical application, he directs that an ounce of vinegar, mixed with a little fresh butter, be taken internally four times a day, drinking from time to time vinegar and water as a common beverage.

A rigid diet is also insisted on, as well as a total abstinence from all spirituous liquors.

This happy mode of treatment has enabled Dr. de Monita to prevent hydrophobia in more than sixty cases.

A Russian gentleman, (formerly Consul at Boston,) states, that when among the shepherds in the district where he formerly resided, any one who was bitten by a mad dog, it was the uniform practice to watch daily and carefully for the appearance of pusiules under the tongue, or on each side of it, which always appeared in due time as the specific consequence of the virus communicated by the bite.

As soon as they come to a head they are lanced, and the mouth thoroughly washed or rinsed, to prevent the virus from being taken into the The washing or rinsing was done with a decoction of the yellow broom, which was also used for several days both as a gargle and a This treatment, it was alleged, was universally and confidently relied on as perfectly etfectual, when carefully and faithfully observed, as a perfect preventative of the disease of hydrophoen not to introduce a clean among a diseased bia, which never takes place till after the pus-

LADIES' DEPARTMENT.

ON HOUSE PLANTS.

The cultivation of Plants, such as Roses, Geraniums, (or Pelargoniums) Myrtles, &c., is often a source of great pleasure to many Ladies residing in Towns-who are not possessed of a garden, yet, having a taste for horticulture, thus gratify this very delightful propensity, tho' in a small way. Plants grown in the open air, and in an open spot of ground, are in the position nature intended them to occupy, and consequently every adjunct of health required by their formation and habits, is at hand. Of course, when such plants are removed into pots, and taken into the house, the natural arrangement is altogether laid aside, and the plants being now in a very different climate, and their roots which had formerly free scope to range, being confined to a very little spot of earth, may be said to be almost; in a new and different world, -as far as temperature, light, and moisture are concerned, they are entirely so, -and the nearer we can imitate nature in supplying these properties of healthy action and life, of course the more closely will the existence and condition of the plants, in their new habitation, approach to those emoved and possessed by them in their old; and there will thus be a better chance of their thriving,

To such Ladies as can enjoy the study of House Plants, we recommend the following article from the Western Farmer & Gardenerwhich is written in a plain, distinct, and pleasing style, and is well worthy of an attentive perusal. -We are convinced, that if house plants were treated as there advised, their fair owners would have the pleasure of seeing them thrive much better than they frequently do:-

" Our object is, to call attention to a few important natural conditions of vegetable health, which every successful gardener must imitate.

1. It should be remembered that the roots of a plant, growing naturally, are in a medium of higher and more regular temperature, than that of atmosphere. Parlor plants, and too often those nursed or neglected to death. We recollect her in green houses, are managed without the slightest reference to this fact. The temperature of root and leaf are the same; or, the heat of the atmosphere is allowed to be greater than that of the soil; or worst of all, there is a perpetual variation in the relative temperatures. Where a gentle bottom heat can be applied, plants more nearly approach a natural condition. Where this cannot he had, regularity of temperature should be carefully secured

parlours it is different; since heat is introduced into them for personal comfort, and for the heal; of plants as a secondary consideration. In natur there is, as might be expected, a marked different between the temperature of day and night. often in stove-heated rooms, the night air scarce falls a degree from the average day-temperature

2. Plants growing in open soil have advantage in respect to light which can only be approx mated in artificial culture. The amount of foo taken by a plant, should depend upon its power ofhealthy digestion. For plants digest their for as really as do animals, aithough by a differen process. Light and heat decompose the water and such parts of its elements or ingredients t are retained for its use; the remainder is give off by the leaf. In nature, a healthy plant draw up moisture in proportion to its own size, and als in proportion to the activity imparted to it b This sec greater or less intensity of solar light. regulation is no longer possible to a potted, house plant; and the keeper must exercise a nice judg ment in its behalf. Some persons economis time and water once for all, dy deluging the plan say once a week, drowning its roots, and filling its tissues with undigested food. If in a war atmosphere, the plant goes into a rapid growth but from want of sufficient light to decompose it excessive moisture, the stem and leaves are forme of mere cellular substance without fibre and un carconized. Long joints, white, watery, brittle and sluggish, effeminate leaves, all betoken vege table dropsy. The verdict should be "death, for want of light and by intemperate use of cold wa ter." We describe only the extreme case of abus From this, there are regular degrees of bad man agement. Some water every day, at any rate some, every other day; some, by the state of the soil upon the surface. These are empirical rules A truly careful gardener will not feed by any or sign, but by an attentive consideration of the whole plant; the degree of light which it has the temperarure in which it exists, by the condition of the soil, and by a careful heed to its growt An experienced eye ought, in a very short time to detect mismanagement, from the wood as leaf of a growing plant.

3. There is one circumstance in respect to the action of light, which we do not remember to har seen urged upon the attention. It is no matter wonder that so few parlor plants are healthy, beautiful. It is no wonder that beautiful plan purchased from skilful florists are very so ing a lady bitterly complaining of a florist whom she had bought several pots of fine rose " I do believe he has some way of fixing themo for sale; some sort of medicine. Just as soon any body else takes them they begin to fail. ----which did well never knew a rose from-Her plants, if they could have spoken, would have replied " Oh madam, we never see the sun un about noon, and then he breaks in fury upon a In plant houses, only carelesness sometimes we swim in water, and sometimes or ignorance can be a reason for irregularity. In thirsty for days. Our poor roots are dry half the

ine and heated, or they are bedrenched and changes in the leaf. We never were treated so before in our res."

It will be observed that by far the greatest numpeedily restore itself to its normal position. If a complete glass room being formed. strained from doing this, in most cases the leaf

d inferior surfaces.

e least possible surface of these cells to the light. he cells of the lower part of the leaf, are arranged piely, so that numerous open spaces exist beeen them, and these spaces are filled with air d are in direct communication with the outord air, by means of mouths through the skin, chnically called stomates. The lips of these buths are formed with singular adaptation to wants of the leaf. When moist, they con-! policy. ct in such a manner as to open the mouth: en dry they elongate so as to close, or nearly close the opening. The fact that these stotes are upon the under side of the leaf is not be unnoticed. For, although the upper surface not entirely destitute of them, their presence ms almost accidental; and they may be said be, for the most part, in all non-aquatic leaves, ose natural position is horizontal, peculiar to under surface.

These remarks will enable us to give a reason certain modes of treatment necessary to housents, often enjoined, but not always understood those who practice the directions.

The necessity of light.—The whole plant deds upon the leaf for its life, and the leaf deds upon light for the performance of its fuuc-Not only is darkness incompatible with life and health, but every degree of diminution ight from that which prevails in the open air, to which the plant is accustomed, removes plant one degree from the most favorable umstances for health. It must be remembered a quantity of light may be sufficient for hu-

The diffused light, the tempered half-light of our parlots is far too weak to answer the purposes of vegetation. In Europe, windows are frequently made, not a little on the er of plants, growing freely, present to the sun, principle of show windows in shape, where plants at one, and that the *upper surface* of their leaves. | are admirably furnished with direct and full light, his is not an accidental position. If it be arti- and protected from dust and too much evaporation cally reversed, the leaf, unless prevented, will by a glass door on the side next to the parlor,-

Directions of the light.-When plants are ill die. It is plain, then, that there is some rea- placed by the window, they are usually raised min the structure of the leaf for presenting the upon frames or tables to a considerable height, pper rather than the under side to solar light. 'for several reasons;—that they may be out of A leaf, simple as it appears to be, is a compound harm's way, that they may make a more congan, and not a little complex. That which ap-repicuous figure. The result often is, that by far the ears to be a frame, viz: the spines and ribs largest volume of light strikes the under side of hich the eye traces, is a double system of veins; I the leaf; and although the light is not so strong he belonging to the upper surface of the leaf, and tas full solar rays upon out-door plants, so neither king its rise from the region of the puth or heart- are the leaves as hardy as those grown in open air. ood, and connecting the upper surface of the There is no doubt that the rapid turning of leaves of with the rising current of sap; the other, be- to the light, does not arise simply from the attracaging to the under surface of the leaf, and con- tion of light, (whatever that attraction may be,) ering that portion of its vessel with the down-but also from efforts of the plant to reverse its ard current of sap. This double system of veins Heaves and present the upper and not the lower surfilled up, not by a mere pulp, as it seems to the face. It is on this account, well nigh impossible e, but by a system of cells, arranged in confor- to maintain in full health very tall plants in parmy with the distinctive functions of the superior lors. Their height causes the light to strike them from below, instead of from above; and smaller The cells of the upper surface are oblong and plants are often injured for like reasons when, for ranged endwise, so that their "long diameter; the sake of effect, they are raised high up by the perpendicular to the surface." This presents window. The nearer the light can be made to fall upon the top of the plant, the better, and each degree of declination from a vertical ray, is a degree on the downward scale of benefit."

> Another writer says "there is a great deal of discretion to be used in watering plants. regular course of giving them all a regular forenoon and atternoon dab is the worst possible The roots of a well established plant penetrate and fill the entire earth of the pot, and by the usual process of giving a little water every day only keeps the surface wet and the bottom of the roots around dry and moulded. course is, to let them stand till quite dry on the surface, and then to give them a thorough watering even till it percolates through the bottom, if the pot is well drained with broken earthen or oyster shells. Occasionally liquid manure, or 1 lb. of guano in 2 gallons of water, tells well in the growth and increased size and beauty of the folinge of flowers."

A solution made of a handful of saltpetre, in a gallon or more of pure spring or rain water, is a good liquid with which to water all plants, whether in the House or in the garden,-and when guano is not at hand, the same quantity of fresh pigeon or fowls' dung, in the same quantity of water, will also answer. We, however, recom-A eyes, and yet notenough to effect chemical (mend saltpetre above either. Try it on a little

plot of grass, such as by writing your name, or the year, or any word, (but this is merely for an amusement,) or saturate a small square, say two feet by four,-and you will speedily observe the advancement the grass on such spot or spots will make.

One detriment to the thriving of house-plants, is keeping them too long in the same pot. When a plant increuses in bulk, the whole lump of earth in which it is gro ving, should if possible be taken out of the small pot, and after as much of it has been removed away from the roots as you can do with safety, it should with the plant be put into a much larger one, in which new rich mould should be inserted around the little quantity of old earth, which it is absolutely necessary to allow to remain. If this be performed early in spring or late in autumn, there is less risk incurred; and then nearly the whole of the old earth may safely be got rid of, much to the benefit of the plant.

ON POULTRY.

The tollowing recommendations and hints are from the Gardeners' Chronicle, some of them. particularly as to the construction and lathing may appear to be a little finical, but they are not the worse for that, as every one can modify and arrange them to suit their own purposes. Taken as a whole, there is a good deal of truth in them. We had understood the remarks as to the Polanders being long layers, and never setting,-also apply to Dorkings,-and we do so yet:-

"The first requisities below ground are a warm, light fowl house, and a dry shed, lath d in front, communicating with each other, in order that the fowls may be shut up during rainy weather, and go to lay or to reost at their own time. The most economical construction I can recommend, is, like the frame for a summer-house, 4 to 5 feet square, 10 to 12 feet high, (fowls like to rocst high, out of the way of vermin and damp', with a pointed gable-top, which adds to the free circulation of air. This frame should be well weather-boarded, so as to exclude all wet or drippings, with a door that has a hole cut in it to admit of free access at proper times. This might have a hatch-door to lift up and down, to exclude cats, and prevent the fowls from getting out too early. This weather-boarding—a proportion equal to two-thirds on two of the sides—should be made moveable, and I thed, in order to exclude cats, but admit the free air during summer, otherwise the house would be oppressively hot. The experience and ingenuity of the keepers must suggest other requirements of aspect to suit extremes in winter and summer. One or two panes of glass should be placed on each side of the doorway, to give sufficient light for all purposes, as fowls are liable to injure themselves in too dark houses. people especially in Great Britain are very chall

There should be a floor raised about 4 inches about the ground, to prevent damp or mildew. Upon this on one side, may be fixed a wooden case, about feet high, divided into compartments for layers an setters, and a couple more sieves (market basket) with clean straw, not hay. On this case may reone end of another floor, projecting about half we over the lower floor, on which may be placed to or three more baskets, as they tike many nests again another fipor, projecting two-thirds or so, protect those in the nests from falling dirt; this third floor to be placed a little above midway of the This will admit of two top roosts, place house so as to clear the lower one from any dropping from The fowls will thus be enabled to go easi The she from floor to floor, and reach the rocsts may be any length from 15 feet, proportionate les to roof, and depth against a wall, to save back boarding. Suppose the garden 50 feet long, as 25 feet wide; rail off a portion to admit the hom and shed, but the more the better, and net the rail a sufficient height or crect laths as a fence from the garden. No fewls are equal to Dorking bree for table, which are the true Normandy fowls of the French gourmands. For perpetual layers (nin months in the year) the gold-springled, music Poland; they never set; it will, therefore be nece sary to have other breeds for setting."

In winter it is a good plan to have the hen-how abous the cow-house, of course with a tight flo between-the fowls thus derive much heat an thrive well-they continue to lay very late-an commence laying very early. Small grains wheat-buckwheat-sunflowers-Indian cornrice, barley, oats, Swedish turnips, cabbag leaves, are all good food for poultry-(particular if boiled or softened)—and they destroy many i sects and grubs when admitted into the garden but if allowed to be there at all, it should mere be for a short time; and they ought not be pe mitted to scrape, as if they do, they are the wor of gardeners; so I think they ought to be e tirely excluded. Laying hens ought to has plenty of chalk and lime to form the egg-shells and they all ought to have dry grave,ly soil scrape in, by which means they get rid of u fieas and insects which trouble and prevent the thriving. Fowls do not like to be disturbed wh choosing their nest or laying-and thrive best dry airy courts, with a covered house and rece for night and wet weather. They look ill a pine with much wet. It is a true proverb apple to any one who is thought sharp, "she does I sell her hens in a rainy day."

ON BUTTER MAKING.

(Continued from last number, page 159.) Butter is an article in the use of which m

and particular, unless it is evidently of the best quality; and I have frequently heard it said, " we will rather eat dry bread, than use butter that is not well tasted." Accordingly, it is only the very first class butter that brings a high price, and is used as food, or as a condiment in food by people of good taste and discernment. The inferior kind if used in food at all, such as in pastry, requires to be so compounded with other substances, as to take away its bad flavor; but it is easily known, and the most part of such butter is sold as grease, and mantains a very low standard of value.

A very large quantity of butter is consumed in England, much more than can there be prepared; consequently other countries are looked to for a supply. The Dutch have hitherto been the chief exporters of the commodity, but it is now undertood they are unable to supply the demand, and that there is ample room for others (such as ourelves) to step in profitably, and fill up the va-To encourage our ladies who are fond of, and skilled in the dairy business, to persevere in their well directed efforts, and to persuade those who are not so, to acquire the knowledge and atmempt the procuring a name for themselves and heir dairy, and generally to qualify Canadian butter, to take its proper place in the market, and recome a staple and profitable article of export, We address the following short remarks, which re adapted for perusal, both by our dairy women and merchants:---

In preparing butter for export, care ought to be aken to pack it thoroughly and properly,—casks te better adapted to undergo the roughness of he voyage than jars; these casks ought to be hade of the best seasoned white oak, and it would e of much importance to its sale in England, that hey were of a neat uniform size, and stamped rith the quantity they contain. The flour ent from this continent is contained in casks thich are much admired in Britain, on account their neatness and tightness. And why may or the same thing he said of those for butter? hich ought certainly to be treated at least in an qually (but we think more) careful manner as These casks ought to be made quite air ght, to accomplish which, it is a good plan to y, it is frequently done in town by the mer- cases, such as long sea voyages.

chants, at separate times, packing one large cask from several smaller ones, and the result is, that a line or streak is easily discovered between the different packings. The best plan to remedy this defect, would be for our merchants who purchase for export, to supply the casks, and then each could be packed on the farm with the same kind of butter, and each salting could be firmly pressed down, so that the butter in each cask might present as much uniformity in every respect as possible. Let all interested, consider merely for one moment, how much better the article really appears, when put up in a careful, neat, clean and tidy manner, than when shewing various colors and consistencies, and thrust into a cask of any shape or size, and farther think of the care and attention they themselves would pay to these qualifications if purchasing such an article from a foreign country, and they will readily understand the nicety of our brethren at home, and admit the correctness of the above remarks, as to uniformity in all respects, i. e. of the casks -of the packing-and of the kind and quality of the butter.

If proper attention be paid to having the right kind of cow-to giving her the most nutritious food-to tidiness and cleanliness in all the (even minute) operations of the cow-house and dairy to the using only the best and purest salt, nicely pounded and carefully incorporated with the butter, in the proper quantity, and to the properly and sufficiently packing and sending it home in neat, well made air-tight casks; we do assert with the utmost confidence, that butter, the produce of the rich Canadian pastures, will meet with a ready market in Great Britain, under its true and appropriate name, and not under the approbrious and disgraceful denomination of "GREASE." We say to our ladies who delight in dairy occurations, now is your time to exert your skill, for you may be assured if you do not now establish a name for "Canadian butter," which it really deserves, but which it has not yet acquired in Britain, it will not be so easily to do so in future years, when other countries will have gone far ahead in the race, and established themselves in the trade.

The following remarks on preserving butter by osk them in brine (of pure salt and water) both boiling, are from the Southern Planter. We clore and after the butter is put into them. At cannot say we approve much of the plan for genresent, butter is very badly packed in this coun-leral adoption, though it may be useful in some

"In all that has been written on preserving same person should always milk the same of butter in this country we have seen no recommendation to melt and strain it. Yet there can be no doubt that this process proves effectual. We have olten told our readers that thorough working is necessary, to exclude the buttermilk, and leave the butter pure. We have told them that it has been kept sweet for years without a particle of salt by separating entirely the impurities that are found on churning the cream. But this is not always an easy matter. Washing with pure wat- doculity vanishes, and she exhibits a very differ ter is the best method that we have practiced, or disposition, and it is for this reason, that a d known to be practiced in this country.

" We have often asked the question why we in her new home. should not boil the butter that we propose to keep as we boil the fat of the hog for lard, and the fat of cattle and sheep for tallow?

"It is well known that lard and tallow will keep sweet for a year without salt. And who can doubt that butter may be kept as long? On examining a recent publication, which we notice in one of the late numbers of the Ploughman. On the Food of Animals, by Robert D. Thomson. of Glasgow,' we find the following remarks:-

" Mode of Preserving Butter Fresh .- The cause of the tainting of fresh butter depends upon two countries, and choose for themselves theb the presence of a small quantity of curd and wa- points of each :ter. To render butter capable of being kept for any length of time in fresh condition, that is, as a pure solid oil, all that is necessary is to boil it in a pan till the water is removed, which is marked by the cessation of violent ebuilinon. By allowing the liquid oil to stand for a little, the curd subsides, and the oil may then be poured off, or it may be strained through calico or mushi mto a bottle, and corked up. When it is to be used it may be gently heated and poured out of the bottle, or cut out by means of a knife or cheese This is the usual method of preserving butter in Indian, (ghee,) and also on the continent, and it is rather remarkable that it is not in general use in this country. Bottled butter will thus keen for any length of time, and is the best form of this substance to use for sauces."

In last number we gate some advice as to the feeding and management of cows, and we may farther remark, that it is a matter of importance, that the cow should have her food regularly, and that she be treated with great gentleness, and temperature of the milk drawn at night to 50% much kindness, combined with firmness. Indeed placing the pans in cold water. In the morning all animals, including man himself, do best with cream must be carefully skimmed off and put such management. It is of consequence, that the pan. As the milk when set should be of the

or cows, so as to get well acquainted with the habits, dispositions, and temperaments. It astonishing how soon a cow, when used as ale directed, becomes fond of, and familiar with milker. She shows her affection in various wiand her tongue, though silent, often comes r play, in the same way as she would have fond her calf, if permitted to do so. On the contra when a stranger feeds, tends and milks her,! just purchased, is frequently difficult to man

ON CHEESE-MAKING.

In the Cultinator for March, (page 92, et. se we laid before our readers a very important? say on the mode of making the famed Chesh Cheese, from the Royal Agricultural Society Journal, and seeing we are in the middle of season, we proceed to give from the Albany O tirator, a report on cheese-making, publish under the direction of the Central Board of As culture of New York-so that our readers p compare and contrast the modes adopted in

" Having had considerable experience in do business, we have found that there are so ma things to be taken into consideration, that rules for their management must be more or general; and no directions however inmutecompensate for experience. In large dan cheese are made at both morning and night smaller ones, the night's milk is set, and cheese made in the morning; in suit smaller e the milk of two or three days is required to rea cheese, and of course different methods must adopted in each case. We shall suppose the qu tity of milk given at two milkings, to make cheese of some 30 or 40 lbs weight, a medium; hops of our dames. In making the renner, dried stomach of a calf should be cut in sa pieces, and soaked in water or sweet whey w salt enough to keep it sweet; and at the pless of the maker, sage, summer savory or others matic herbs. If the rennet is properly made gill will be sufficient for a chiese of 20 por but its strength can only be ascertained by exp ment. If too much is used, the cheese wipuffy and strong; it not enough, the curd will be formed, and a waste of milk will ensue. In weather it will be found necessary to reduce

hture of 90 to 95 deg., the quantity of milk to warmed, will depend on the external air, as in a lday the milk of the morning will be lower n in a warm day, and a too low temperature 🚰 be guarded against. Into this milk while ming, tho cream taken offmust be put, and ed to such a temperature that when it is ed in the tub with the remainder, and with morning's milk, the temperature of the whole y be about 90 deg. Sometimes it is necessary warm the whole night's milk; but this is only ery cold weather; while when the weather is m, the cream may be put in the stramer and ed by pouring the warm morning's mitk over The thermometer in these cases must howt be the guide; and the operations of the dairy not well be conducted without this instrument. en the proper warmth has been given to the s, add the cream fully incorporated, the rennet be added and thoroughly stirred into the mass. ctime allowed for coagulation will depend on strength of the rennet; and if good, an hour be about the proper time; during which more ess of the cream will naturally rise to the sur-

When properly coagulated, the curd will ha slight pressure on its surface without break-; but experience here is much the best guide. prevent the escape of what cream may rise h the whey, it should be carefully skimmed to side of the tub, and covered with some of the gulated milk laid upon it with a skimmer. whole is then carefully broken up with a long Men knife. Much is depending on their opeon, as if not well done, the fat of the cream th gives chacacier and excellence to the cheese be carried off by the whey and lost. A coarse ming cloth should be thrown over the curd, as the whey rises through it, it should be ed off as long as it can be. The curd is then m broken up, and the whey more completely ed off than before.

be of the first whey is to be heated as soon as ed off, for the purpose of scalding the card. at care must be taken not to scrid the curd much.—Two pailsful at 130 deg., will scald rd of 20 ibs. ; but the weather and the gnanof curd must be consulted to determine cor-I should be broken up and mixed by hand, 'so." hall parts may be equally treated, and made fae as it can be broken. It is now removed strainer and basket, and when the curd is ned, it is returned to the tub for scalding. fan ounce of salt to a pound of cheese will te a good rule, but the taste of the dairy wohis perhaps as good a regulator of this matter by, for all misk is not always equally salt. the thoroughly mixed with the card, or it not ripen equally, and the unsalted paris will me a bad flavor. The pressure required aly depends on the size The curd is put the hoop or vat in a strainer, and remains in press about two hours. It is then removed ed in a dry cloth, and returned to the press. hould not remain in the press without turn-

ing, longer than five or six hours at a time, and from 24 to 36 hours will be necessary to complete the operation.—A power of from 80 to 100 pounds for every 15 pounds of cheese will be a sufficient pressure. Where large cheeses are made, it has become a common practice to pass a bandage made of thin cotton cloth, of the same width as the thickness of the cheese around them, and secure it by sutching it together at the extremities. This will prevent the spreading of the cheese and the danger of cracking from that source. We have found such strips of cotton of the greatest use; and the larger and richer the cheese, the greater their value to the dairy man. Milk may be tinged so as to give a richer hue to the cheese: but if the cream is all added, and the cheese well made, coloring matter is unnecessary. is the best coloring material, as it is harmless, which cannot be said of all the ingredients sometimes used for this purpose. There should be a free ventilation to the cheese room, but they should not be exposed to strong currents of air, as it makes them liable to cracking. Cheese should be turned on shelves daily, and rubbed with melted butter at each turning.

And a recipe by a lady, is added, for making " Cream Cheese .- Take one quart of very rich cream, a little soured, put it in a linen cloth, and tie it as close to the cream as you can. hang it up to drain for two days-take it down, and carefully turn it into a clean cloth, and hang it up for two more days-then take it down, and and having put a piece of linen on a deep soup plate, turn your cheese upon it. Cover it over with your linen; keep turning it every day on to a clean plate and clean cloth until it is ripe; which will be mabout ten days or a formight, or may be longer, as it depends on the heat of the weather.—Sprinkle a little salt on the outside when you turn them. If it is wanted to ripen quick, keen it covered with mint, or nettle leaves The size made from a quart of cream is most conw. When the hot whey is poured on, the venient, but if wished larger they can be made

> Churned milk is sometimes added to the Cheese-milk, which to some tastes or fancies improves its flavor and quality and preven's its rising after being made.

To shew the importance of this article for export, we may state, that in the year ending January, 1844, there were imported into Great Britain 185,289 cwt. of foreign cheese, of which there were

From various countries in Europe, 136.798 From the United States, And from British Colonies, only

185,289 cw1.

ON REARING CALVES.

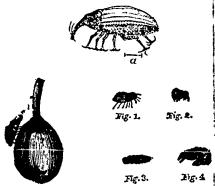
Calves may be reared, (though not fatttened,) without milk, after a few days from their birth. Linseed porridge, made by boiling a quart of seed in eight or ten gallons of water, thekened by three or four pints of buckwheat or of oatmeal, but flour made of the large broad bean, or even the common field bean, or barley, will do. should be given new-milk warm.

We consider oatment or Indian corn flour the best mixture with the linseed; and the compound, assisted by a very little milk, will even fatten the calf.

Curculio or Plum-Weevil.

(Rhynchærus Nenuphar.)

- a. Curculio in the perfect state, magnified; the usual length being about one fifth of an inch.
 - 1. Curculio in the perfect or beetle state.
- tree.
- it falls.
 - 4. Pupa, or form in which it lives in the ground.



The colour of this insect is a dark brown, varie- tirator:gated with spots of white, yellow and black. When at rest or when it falls from the tree, on jarring the tree, the snout is bent under its breist. These insects are very destructive to smooth skinned fruits, particularly to plants, apricots and negarines. They occasionally, but seidom attack cherries and apples, and peaches are too rough I Chillicothe. Take a number (one for each tree for their convenience.

dingly to the se son, and state of vegetation, and place them under the trees-if elevated on

their proboscis, making a small mark in a semi circular form. In this wound they deposit & egg. The gum oozes out. The egg hatches and the worm eats his way towards the centre of the fruit, and the fruit falls, frequently before one quarter grown. Any person of commo observation, can witness their destructive effica-They are so numerous and industrious, that when there are so many trees having thousands of plung they will frequently desiroy every one. ing to some authors they remain in the earl about three weeks and then emerge from the ear a perfect insect, in the beetle form; others sa that they continue in the ground must the nex The subject is not settled as to the habus.

Remedies .- One of the best preventives, an one that may be easily attended to in some situations is a moist, compact soil, as it affords the curculio but poor quarters in the ground, an such a soil is favourable to the plum tree. W 2. Its assumed form when shaken from the have published many articles showing the god effects of salt applied to the plum tree, very lat-3. Larva, or worm as found in the fruit when in full, or very early inspring, both in destroying the curculo, either by effecting this in-ect in the ground, or imparing an unpleasant taste to the fruit, and giving the tree vigour and including productiveness. When properly attended to n season; it seems almost infallible.

All the affected trust should be picked up a soon as possible after it has tallen, and dispose of so as to destroy the worms that are in it. By jarring or briskly shaking the tree where the insects are operating on the fruit, at morning or evening, they will contract their legs and fail, an as they will not immediately try to fly or craw they may be caught on a cloth and destroyed We are indebted to Dr. Harris for many of the above facts, which we have taken from b very able work on entomology.-Bost. Cult.

We copy the following from the Ohio Cal

"A New Remedy, and one that to our min affords promise of more unlity than any orbo within our knowledge, was made known to recently by our friend Gen. J. T. Worthington who informed us that it had been practised wi much success by one or more fruit growers: fof tubs, or boxes, that will hold an inch or it They appear from the first of April, until accor- of water in the bottom; whitewash the inside Soon after the plams set, they puncture them with barrel or by other means, as to bring it near to

wer branches, all the better; then pour in the terso as to cover the bottom an inch or more in depth, and in the dusk of the evening when Curculios begin to appear, set a lghted canor lamp in the middle of the tub or box, letting remain for two or three hours or longer, each ming, during the period the insect are flying, uch is found to be but for a very few days.

The light and reflection from the whitewashed es, attract the insects into the tub, and falling o the water they are unable to crawlout. Hunds have been caught in this way, in a single , in one night, during the time of their thickest tht. The remedy would probably be more efmal, if the trees were to be shook or suddenly red, occasionally, during the evenings when the ects are most numerous.

We hope that a number of our fruit growing ders will try this method the present season, let us know the result. The trouble and exhie are very trifling compared with the value of top of fine plums, and the satisfaction of thing off these hareful marauders."

y must be empiled and filled afresh.

i entirely destroyed.

elened water, I have not tried, but have experi- applied we know not. ated upon the suggestion of Gen. Worthington, with just sufficient water to cover the potato, and sassafras roots no insect can endure. placed this under a plum tree, I shook the

can say I saw no beetles flying. But the result was that those five were slow swimmers; four at length reached the potato, went down to it and traversed it in every direction up and down, and were under the water a full half hour as little incommoded by that e'ement as in air. I doubt whether drowning them in water is possible. The fifth, after a long while, reached the side of the tub, and he ascended it as rapidly as a sailor would a rope. Fresh white wash might have prevented the ascent, but I am satisfied that fish are as easily drowned as curculios, at least in clear water."

We have heard of bottles of sweetened water, (nor quite full) being used in the old country for the destruction of wasps, also great enemies to fruit.

Beetles, Cockroaches, &c.

Our attention has been directed by two highly esteemed and much respected ladies, to these annoying insects, which greatly predominate in Canada, in spring, summer, and autumn, and are very troublesome and noxious on account of dnother Remedy-The following, which we their intrusion into dwelling houses; and we lin the Cleveland Herald, is worthy of trial, have been requested to give some remedy in the agh we have not much faith in its efficacy:— Cultivator, by which they may be eradicated. lady has for several years past practised hang- $_{
m t}$ We are at all times desirous to stand well $\,$ in the kone or more bottles filled with sweetened water estimation of our lady friends in particular, and the like, among the branches of her plum trees, would be much delighted were a simple and effithe result has been an abundant supply of cacious remedy in our possession, to lay it before h curculios and plums. The Curculios are them, especially as the subject is, we believe, one ght in the bottle and the plums left to ripen of pretty general interest; but as we have never hout suffering from the Curculios' usual depre-!ourselves been annoyed by the visits of these in-When the bottles get filled, of course sects, (for which we are grateful, and trust long to have cause to be so,) we are unable to do The gentleman states that this course has been more than him, that scalding hot water is y successful: resulting in abundant crops from said to be a killing remedy, if well applied to the is so managed, while others around had their chinks from which the insects come forth; but 1this can only be effectually applied on ground The following letter appeared in the last *Ohio Boors*,—as if done up stairs it would damage the livator, from Mr Dille: "Your last suggestion ceilings,—we may farther say, that we understand the destruction of the Curculio, in bottles of that sulphur has been found of benefit, but how

Plaster of Paris mixed in oatment or flour is found it is a fallure. I put a candle, fixed in lalso said to be a remedy, if put in the chinks ige potatoe, in a tub pointed white on the in-lifoon which they issue, or sprinkled on the floor;

We shall feel greatly obliged to any of our several times, and it was not long until I die- readers who can furnish us in time for our red I had five carculios in the water. Whe- July number, with a plain, simple, and not danthey fell from the tree when shaken, or were gerous method, of thoroughly getting rid of the acted by the light, I am unable to say; tho' I 1 above troublesome visitors to our dwelling houses.

DEPARTMENT FOR YOUNG PEOPLE.

MR. EDITOR .--

In some children, the knowledge of right and wrong, i. e., of whether they are acting properly or not, is shown at a very early age, and I am aware that matters spoken of before them, leven ex a period of life, when it might have been supposed they could not at all understand the meaning of the subject of the conversation or observation, or were paying any attention to it.) especially if the little creatures have any personal interest in them, are frequently distinctly remembered when they grow up. As the human race has a tendency to fall still lower than what it has done, unless the good propensities are early cultivated, and the evil ones checked in the bud. Parents cannot be too cautious, not only how they act, but also how they speak before their children. Young people are very apt to imitate others, but in general, they think that they are themselves always in the right, and it is a very difficult matter to persuade them to believe, and to act on the belief, that they are frequently in the wrong; and that the parent or other party who addresses or warns them, can, or does know better, because they have had more experience. In addressing a few observations to young people, I shall keep these ideas in remembrance, and shall therefore commence with two principles, the correctness of which, if at all installed into them, most, if not all children readily admit, viz truth and honesty. Dear Boys and Guls, I w It suppose that you are

all aware of your duty to love and serve God, and to honor and obey your parents, and that you try to do so. There are also other parties besides, to whom you ought to act properly, and these are your neighbours, viz, other little boys and girls with whom you keep company; you know who told us all to love our neighbors. There are two things I shall point out to you, in which, if you act wrong, as regards them, you neither love nor serve God, honor your parents, nor do your duty to others, and farther, you hurt your own character before every body. These two things are therefore very naughty, and I hope you never do. or that if you do or have done them, you will now give them over entirely. The first is telling lies; and the second, being dishonest, or in any way cheating or robbing another. In last number of not found out, it will never be so, and they go the Cultivater, page 155, I inserted a nice little land tell more, and become bad in every way story about the honest and dishonest boy, which and 2d, Because, as long as it is undiscore I hope you have read, or that your parents have they live in great fear, lest it be found out,

read for you, and from it you will see the is true, " that honesty is ever the best policy." I have now to tell you also, that " Truth

ever lest, and stands longest." As to not

ing the truth, but as it is called, telling lie

think it one of the very worst crimes which boy girls can commit. For if you once get int habit or way of telling lies, you will very t find that no body will believe you, eren when tell the truth, and that lying generally leads to every thing bad,—such as being dishonest, taking what is not your own,-in short, steal You may think, when you tell your first lie, you will never rob or steal, and I am sure yo not intend ever to do so; but if you go on, evil doing is always powerful to increase,) will find, that to hide some of your hes, you not scruple to tell another, perhaps greater, o steal, or to do something very bad indeed. know who is the Father of Lies, and who power over liars. Is it not the Devil? sure you do not like or wish to be called one His Children. In what way did he first shew h self to be a liar? Was it not by telling the g falsehood he did to Eve, in the Garden of Ed About this true tale, you can read, or get of to read for you in the Bible. Adam and then knew no evil .- knew nothing of lies. very innocently believed all he told them. in believing him, they disobeyed God, and punished, though they had never been was against him. And do you think Boys and G who are well cautioned, as you are, against wickedness of telling lies,-and yet do he,not be punished also? Though your parent friends may not know you do so, there is one: sees and knows all things, and that is God,

"A lie may be acted, (says a learned wa Dr. Paley,) as when a traveller asks the way, you point with your finger in the wrong di tion." In short, deceiving another in any r is telling a lie.

he will punish.

But, even in this world, lies are general found out and punished; and the longer they of being found out, so much the worse for poor foolish Boys or Girls who tell them; Because they think as the lie they have told

not look like good innocent children at all .ey know themselves that they are liars, and not look their Parents, or good Boys and Girls, When Boys and Girls are found he face. to be liars, nobody believes another word reay, and they are despised by all good peoand no one will be seen in their company; not one of us can stand being called a liar. ight say a great deal more, but this letter is ady, perhaps, too long. I shall, however, add ale tale, which has often been told, but which be new to you. You know that a wolf is a i beast, which lives in some countries, and deis poultry, sheep and lambs, and even horses cows, if they are not well protected. They keir way, they would soon eat them up. front intending or supposing he did so. Per-source of trouble to you as long as you live. he might have been a good boy, if he had! told, as you now are, that it is bad to lie.parents and friends at first did not know that as a liar, but after he had two or three times d out "wolf, wolf," to make them suppose there was a wolf near, and that he or the sheep there was no wolf there, they found out that as telling a falsehood—that he was a liar.u happened next? They did not believe So, one day, even when he told the truth. of really came, and the boy cried out, but his ds thought he was deceiving them again, and ot go to his assistance; and then, alas! The es destroyed all his sheep, and ate him up. dear young friends, "Always tell the truth."

I am, your sincere wellwisher,

, 1847. VERUS.

oung Lads -Diligence.-There are many glads about our streets who have given teir schools, but who are in no particular ess. Some of them, to be sme, are sons of by parents, who can afford to keep them in es, but it may prove the ruin of the boys. e are others, however, (whose purents find it alt to make both ends meet,) who seem to be enothing from Monday morning till Saturhight. Why is it? They are too proud to

they are waiting for opportunities to present themselves, where they can get a good salary, and do nothing but a little writing. Such opportunities are rare, and these boys may wait till they are one and twenty, and yet do nothing. ness is the ruin of boys from the ages of fourteen to twenty-one. While unemployed, you find them at the corners of our streets, in low grogshops, or where soda, cakes and pies are sold, living on the generosity of their more wealthy We know several such. We see companions. them daily getting what they can from others, while their poor fathers, or widowed mothers are obliged to support them.

Our advice to such young lads, is, go to work even attack men, and if Boys or Girls come at something. Do not be afraid of a trade. - Some of our best and most talented men once l, in a country where there were plenty of sat on a shoemaker's bench, worked at something. savage beasts in the woods, there lived a You can all find employment, if you will work. Boy, who herded a flock of sheep. This You had better dig, than thus waste your prehad got into the habit of telling lies, perhaps clous time, contracting habits that will be o

By D. C. Colesworthy.

-Far. & Mech.

The Importance of Resolution.

"Resolution," says a writer is "omnipotem" in danger, and saw, on running to his help, 'And if we will solemnly determine to make the most and the best of all our powers and e-pacities; and if to this end, with Wilberforce, we will but " seize and improve even the shortest intervals of possible action and effort," we shall find that there is no limit to our advancement. Without this resolute and earnest purpose, the best aids and means are of little worth; but with it even the weakest are mighty. Without it we shall accomplish nothing -with it, every thing. A man who is deeply in carnest acts upon the motto of the pickaxe on the old seel: 'Either I will find a way, or I will make one.' He has somewhat the spirit of Bonaparte, who when told on the eve of the battle, circumstances were against him, replied, Circumstances! either make or control circumstances, and don't bow to them.' In self-cultivation, as in every thing else. to think we are able, is almost to be so; to resolve to attain, is often attainment. Every where are the means of progress, if we have but the spirit, the fixed purpose to use them. And if like the old philosopher, we will but take as our motto: 'Iligher-for higher?! we may rise by them all. He that resolves upon any greatend, by that very resolution a trade, or go into a shop and work; so i has scaled the chief barrier to it; and he who seized

the grand idea of self-cultivation, and solemnly re- | coustry—and this we believe will be easily ac solves upon it, he will find that idea, that resolution, l burning like living fire within him, and ever putting tembraces a great and arduous,—a mighty un him upon his own improvement. He will find it removing difficulties, s-arching out or making means, giving courage for despondency, and strength for weakness; and like the star in the east to the wise men of old, guiding him nearer and still nearer to the sun of ad perfection. If we have but a fixed and resolute bent on self-improvement, we shall find means enough to it on every side, and every moment; and even obstacles and opposition will but make us like the fabled 'spectre ships which sail the fastest in the very teeth of the wind."—Self Culture, by Rev. Tyron Edwards.

On our Prospects of Improved Agricultural Education.

Ere this, Mr. Buckland and his family are embarked on "the wide world of waters," under the liberal pecuniary assistance from an integuid-nce of HIM whom "the winds and waves obey," and to whom they have in all humility, this part of the subject, we shall more fully very properly commended themselves. favoring gales and prosperous breezes, we may therefore confidently expect very soon to enjoy the pleasure of seeing them east their lot amongst attention of our Agricultural Associations us, we trust, with profit and pleasure to all. matter; for assuredly, no subject more inter From his high standard of character, Christian as or proper to be taken up at early meetings well as Professional,-we are certain that Mr. and all of them, does or can exist. Buckland is most ciminently qualified to fill the imost thoroughly of opinion, gainsay it who chair of the Agricultural Professorship in King's that to these Associations, such an Institut College; and for these and many other weighty reasons and considerations, we make no doubt of would form the most potent and appropriate his speedy election. Be the latter point as it thary, as in it every subject and suggestion may, he has decidedly made up his mind, after interesting and not chimerical nature—but long, serious and deliberate consideration, to benefits and merits can not be sufficiently establish an Ag icultural College and Experi- or instructed by discussion, however of mental Farm in the vicinity of Toronto. We may be the reasoning, or brilliant the are delighted to mention that Mr. Buckland is guage,-could be readily and efficiently a the very individual we want and require amongst 'gated and tested by scientific analysis; and us, for he goes heart and hand into the sub- and at the same time, be brought home ject, and is determined to become a thorough student by elaborate, yet plain exposition going Canadia. in reality, as well as in name, short, for every practical purpose, this Inst though ever looking back to Britain with respect would prove to these. Associations their is and veneration, as a moral son would to a prous cleus and rallying or centre point. On the and beloved mother. His plans and appliances many other grounds, of which we share having been the subjects of many days and nights! I merely particularise the benefits thence de anxious thought and serious reflection, are well to the general community, (for which very matured; and when he comes amongst us, he has these Associations themselves profess to to merely to alter, or modify, or extend his views, if blished,) and to our young men in particular he finds them not quite stated to the character, entertain a strong conviction, that our A disposition, or genius of the Canadian people, or tural Associations will see their own interes

plished. The whole subject, however, ceru taking, and as it is one whose benefits are most extensive kind, and yet of the most ev and direct application to the Welfare of COMMUNITY, we feel pretty certain, under highly patrious Governor General, Lord Ele (who himself, by his establishment of the li Society in Jamaica, and other measures for ricul ural Improvement there, shews that well aware of the great advantage of agrica knowledge to the morals and happiness of a ple, so well exemplified in " his own, his r land,")-that such a scheme will not long to lowed to depend for support on one, or eva class of individuals, but that the fostering and patronage of a paternal Government, as Legislature, will promptly be extended to it With in a future number,-neartime we through these hints for the notice of our Legislators we may be allowed, now, strenuously, to ca combining, as it would do, practice and preto the position and state of progression of the nearthy and earnestly give an impetus to the

Institution, by recommending it to their bers, and making its advantages known to ritiound them.

ung men, especially young farmers, between ges of 15 and 21, are at present, greatly at how to dispose of their time advantageand have it not in their power, however et gly inclined, (and many are so,) by any s but reading, to increase their little stock howledge. The advantages of reading, we I use strongly inculcate, but yet there is a ; for these young men may be spending the ole days, months and years of their youth ^alest time for improvement,) on unprofitable r, which is so either on account of its being amed, too much beyond their comprehenor even though it appears plain and easy of followed up, they cannot do so in execution, having seen it put into practice -an Agrial College and an Experimental Farm comis the very kind of remedy for this serious in our system of Education, and social tion.

he United States, and other countries, the f gentlemen resident in Towns and Cities, n one time, having no opportunity of acg any knowledge of Agriculture or Horti-, and consequently knowing nothing of the tes of a country life—talked slightly of, or ak plainly, despised the occupation of a ,-but now, having been students in simititutions to that now under notice, and may choose to adopt, in life.

fold beaten track, or to do things in such and such a way, and at such and such a time, merely because " others ALWAYS did so before !" They will be taught to advance to a higher degree of intelligence and efficiency, and will receive a training in rural economy, pending their progress in literature, so that, when their course of study is accomplished, they may not only (as Mr. Skinner appropriately remarks in the Farmers' Library,) have achieved the usual attainments acquired in Literary Institutions, but exhibit a thorough and well grounded knowledge of practical and theoretical Agriculture and Horticulture; and possess in a high degree, the presumable addition of good health and habits; being thereby better fitted to enter upon the general duties of life, or into any profession, as well as that of agriculture."

In conclusion, we trust, that the time-years ago contemplated, - is not merely approaching, but is now quite at hand, if not altogether arrived, when, throughout the length and breadth of our land, there will prevail in the minds of all ranks, classes and conditions of our people, an abiding conviction of the mighty truth, hitherto so unhappily neglected, that the system of Agricultural Education ought to combine the cultivation of the intellect, along with that of the soil.

Fasting good both for mind and body -A degree of abstemiousness is, by all reasonable persons allowed to be favourable to mental effort; but an occasional fast is also found, incer ain constitutions, to invigorate both mind and body. seems to give time for the functions to complete their work, and then to rest for a white. Fasting, for a moderate period, diminishes the carbon in the had the "BOOK OF NATURE" opened up to blood, and thus prevents drowsiness, while premostomshed, and formerly benighted vision, ting a free circulation of highly vit lized blocd uplained to their ardent minds by plain, through the brain; and as on this kind of supply the a pleasing instruction and experiment; ready power of the mind depe ds, a clearness and rapidity of perception may reasonably be expected are thence derived such a stock of neeful under such circumstances, presided the muscles are ation, as will prove to them a genuine fund not much in demand. Those who by mental habit be to their character and conduct in whatthe greater number of persons who think themselves municon they may be placed, or prosession morally and physically in health, would find how In their greatly they are mistaken if they could be induced non, agriculture as an art and a science, wait for something like an urgent demand for nourn raised to its due and proper standard, and ishment before they indulged in eating. Instead prace of despising, they look upon and of submitting to custom, and regularly reserting to nt with something approaching to reverthe table three or four times a day for the mere and delight. With such examples before sometimes completely to break through the habit, will our Canadian youth be found lagging nd enjoy the quickening powers of a rational wil We answer for them, emphatically, no! triumphing over animal appetite. Thus health of do so with entire confidence, as we are the dy and mental fortitude, which tegether constitute the best assurance of intellectual power, may be equally it moved. The lody in relation to the they will be taught not to follow up the Mind, by G. Moore, M. D.

Ice Gream.

This is a cool and pleasant refective, exceedingly agreeable in social parties, small or large, at all seasons of the year, and especially so in the hot weather of our summers. Though it is a preparation more especially kept in cities and towns, and dedicated to the refreshing of attendants on the aforesaid gatherings, yet we cannot see why it cannot become a common dish on the tables of those cultivators of large farms and keepers of large families who have the ability and disposition to attend upon the pleasures of taste.

In describing the process of making it, we shall not, as is often done, by those who give information to others, proceed on the supposition that every body knows as much of the matter as we do; but shall take it for granted that they know nothing about it.

As preliminary to its manufacture, there will be needed an article called a "Freezer," which consists of a cylindrical jar, made of block tin, and fitted with a close cover, which is so fastened as that the whole can be turned by a large strong handle, with which the cover is furnished. This can be had at the tin shop for, from one to two dollars.

To make four quarts of ice cream, which will be sufficient for a party of about a dozen persons, put three quarts of mulk into a tin pail, and set the pail into the kettle of boiling water; add to it three pounds of loaf sugar, and when bloodwarm, add nine eggs well beaten. Then stir the whole till it becomes of the thickness of sweet cream. Take it from the kettle, strain it through a thin cloth, and add one quart of sweet cream, flavored with one Vanilla stick. The bean is purchased at the drugist's, broken into small pieces, and steeped one hour mantk. The essence of lemon may be substituted for Vanilla—the taste being the guide for the quantity.

If it is desired that the cream shall be very rich, use the proportions of four quarts of milk, two quarts of cream, and twelve eggs, se-soued and prepared as before. The more cream there is, the more difficult it will be to freeze it.

The freezing is done as follows.—Pour the mixture while warm into the freezir. Then take a common nail keg, or any cask holding about twelve gallons, having only one head, bore two or three holes through that head, and place it in a wash tub. Then being provided with about a half bushel of salt, and about two bushels of ice-

pound the latter into pieces as large as waining put a layer of salt of a half inch or more in thick ness in the bottom of the cash, and on that a layer of an inch of ice; then set the freezer indecentre of the cash, and place another layer of a about it, alternating with ice, till the cash is fillefull. Then taking the freezer by the handle, turn it back and forth horizontally right and left, few times every few minutes until the cream a frozen.

The effect of mixing salt and not will be a melt the ice. This will evolve an intense colso that if a thermometer be placed in the liquiwhich flows into the tub, the mercary will such eight or ten degrees above zero. If the creamnot too rich it will be frozen in half an hour; be otherwise it will require an hour or more.

If it is not to be used immediately, let it standshere it was frozen till wanted, as a temperature of 39° or less will thow it.—Amer. paper.

Invaluable Remedies.—Here are some simple remedies, for every prevalent disorders, that a have no hesitation in recommending as infallible Try them.

For sea-sickness, stay at home.
For drunkenness, drink cold water.
For health, rise carly.
For accidents, keep out of danger.
To keep out of Jail, pay your debts.
To be happy, be honest.
To please all, mind your own business,
To make money, advertise.
To do right as d have a good consience,

Subscribe for a paper, and pay in advance

To-Morrow—And what is to-morrow? A to that always is coming and never is come—it is to part of eternity that lies beyond eternity—it name, a phantom, a misnomer. Does it decir us—why? Because we depend upon it—and is get that whatever we do, we must do to-day. Is member it—ail your labour in thes were must do not to day—there is no te-morrow.

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