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Voi. I. No. 6.]

## Rotation of Orops,

In order to make a feld or farm yield the greatest anount of valuable product without exhansting the soil, it is necessary to adopt a systemiby which different crops shall be grown in regular succession. Rotation of crops is the name by which this system is usually known, and it forms a most important feature in all really good farming. Many furmers who have not duly examined and reflected upon this subject, are inclined to regard the doctrine of rotation as a fine-spun theory, or mero superstition, begotten of bsok-farming. But.it rests upon principles the most selfevident and immutable, as any perion of ordinary intelligence must see, if he will direet his thoughts to the matter. These principles are mainly the following: -1 . All arable land contains a supply of certain substances or clements on which plants feed, and by absorling which they grow. Butall plants do not require the same food, or if they crave the same food, do not consame it in like proportion. H́ence a soil may be barren for one plant, and fertile for another. There may not be enough of a particular element for one kind oi crop; while another may find all the food requisite to its pertect development. Thus a soil which will not give a second good crop of wheat, may, without additional manuring, yield an excellent crop of clover, of turnips ${ }_{3}$ or of carrots. This is the main principle on which the doctrine of rotation is based. 2. Some plants derive their nourishment from near the surface of the soil, while others go to a greater depth forit. To alternate these crons, therefore, must obviously be of advantage. Let any one pull up a plant of the grain species and observe the horizontal tendency of the roots, and then examine a turnip, mangold, or carsot, and notice the maniner in which it descends into'the earth until stopped by the hard pan, and he must be convinced that in this respect, a change of crop, cannot but be bencficinl. 3. Some plants depend mainly upon the soil for their supplies of food, white others draw largely from the atmosphere. The grains whose stalks and leares are comparatively small, subsist chicly upon-the soi ; while Indian corn $_{2}$ turnipa, and the like; Fhich have abundant - foliage, absorb much nourishment from the gases floating in the air. 4. Certain kinds of plants are infested by particular iusects, and these continue to multiply and become increasingly troublesome, if the same crop is put in from jear to jear. Bat when a crop intorvenes on which these insects cannot live, they perish for want of their proper nourishment. 5. Weeds greatly interfere with the success of all crops. They exhanst the soll, and crowd the plants intended to fill the ground. Barn-yard manure, unless thoroughly composted and rotted, almost always carries with it the seeds of many perniciots weeds. Other seeds are light, and are carried by the winds from place to place. Hand iaboar is too costly to admit of its boing employed. in pulling ont weeds from among grain crops. Ience itis of great ad-
vantage to put manure into the ground along with a hoed crop, and so to alternate such a crop with grain and grass, as to give an opportunity of extirpating noxious weeds. 6. A judicious rotation of crops renders fallowing almost wholly unnecessary. The chief oljegets to be secured by fallowing are the destruction of weeds, and what is called vealhering the land, $i$. e., exposing it to the combined influences of air, sunshine, rain, cold, and wind. Deep ploughing, thorongla tillage, and the faithful use of the cultivator and hoe, secure these results without loss of crop.
It now remains to suggest some rotations that may be advantageously, adopted. It nust be borne in mind that the same rotation is not suited to every kint of soil. The farmer must judge from his own experience, from his observation of the method pursued by others, and from his study of agricultural publicatious, what course is best adapted to the soil lie has to deal with, and the cloject he has in view. One inay prefer to make sheep lusbandry his chicf dependence, another may chooso dairy-farming, another stock-raising, white the majority will pursile a general system of farming. Each of these modes of procedure will require a rotation of its own in some respects; while all must be regulated by such general principles as we have laid down. The shoztest courso considered at ali admissible is that known in England, and somewhat frious as the Norfolk rotation. It is-1, turnies; 2 , barley; 3, clover; 4 , wheat. In some paris of Canadn noted for good crops, clover and wheat are alternated-two crops of clover and then one of wheat;-the second clover crop being ploughed under as a manure-led for fall wheat. This can hardly be commended, though the excellent crops of wheat testify strongly to the restorative properties of green clover: A longer and more varied course would be much better. On rich clayey soils in England, a course which las been much used is-1, oats; 2, rape, for oil ; 3, beans; 4, wheat sown with clover; 5 And 6 , clorer; 7 , wheat; 8, rape. On rich loams-1, oats ; 2, turnips; 3, wheat or barley ; 4, beans; 5 , wheat ; 6 , fanow or turnips; 7, wheut or barley and grass sceds. A favourite rotation in France is, for the first year, winter wheat, 20 acres.' Sccond year, beets; carrots; potalocs, 10 acres; poppy oryflax, 5 acres; colua, 5 acres. Third year, oats and spring' wheat, 10 acres; fall wheat, $\mathbf{- 5}$ acres; turnjpa; 5,aöres. Fourth year, clover or legumińous vegetables, 20 acres. Poppies and colza are specially grown in France for the oil made from their seeds, and wifich is used for light and for culinary purposes. As a good rotation in this country under ordinary circemstances, tre nay suggèst théfollowing course :-I, Yieat; 2, turnips ; 3, spring: grain and. grass; 4, grass, 5 , grass ; 6, potatoes. This gives fonr years of tilled orops and two years of grass. This mas casily be modified, and yet the genoray principles that govern the farmer's management of his land oo kept in vicv:
In the United States; corn is highly csteemed, as an silternating crop. It derives mnch of its support from
the atmosphere, and requires a constant stirring o the soil, so that though it is a white crop is regarded as improring in its effect. We bave no doubt it might be cultivated more exteusively in Canada to adrantage. The Massachusetls Board of Agriculture recommend the following rotation:-1, lolatoes; 2 , corn; 3, carrots, turnips, or beets; 4, rye; 5 , clover; 6, grass ; 7, grass. Tbis rolation is one of fire years, with grass for two years, und is, we should think, one that would work well. Manure may be put in abundantly before plonghing, and also in the hills for corn, and in the drills before fowing tarnips, beets, or car-rots,-from one to three applications being given during the course. Hincral as well as other manures may he used; thas plusler, bone-dust, and ashes may be applied with the potatoes; barn-yird manure with the corn ; and with the roots, plaster, bone-dust, common salt, and ashes.
It is proper to remark that rotation of crops is not absolutely essential to continned.fertility or the soil. It is undoubtedly on the whole the best economy of time, habour and manure. But under special circumstances, and with the abundant application of various manures judiciously chosen, the farmer may grow again aud again any particular crop that may be most proflable to him, or most in demand in his vicinily.

## Use of Gultivators, \&e.

To the Ehlilor of The Cavada Fameri.
Su, -In your issue of Feb. 15th there are two articles on which I sloould like to make a fen observations. The first is "cultivators es. ploughs." In this it is stated that the cultirator is as effective as an implement for moring and loosening the soil, as the - plough, and that it is not requisite to turn over the earth in ciltitation; as is done with the plough. This, as a rule, I believe, to be erroneous. I think it is necessary not only to stir and loosen the soil, but to invert it, so that as much of it as possible may be exposed to the fertilizing infuence of the sun and air. I well remember an observation of my father's-that the last or third ploughing of a fallow would add five bushels per acre to th ' crop. But actual experience is the only safe guide in such matters; and as I have tested it. to my own satisfaction, I believe the cultivator cannot compete with or supersede the plough. The erops of wheat after one ploughing, arid then working with the cultivator, haye notbeen generally so large äs when properly ploughed-tvico-better threo times. I do notsay the cultivato is uscless; still. Think a good gang-plough better oven'when'a cultivator may be used. Hopever, I should like to lear what has been the experience of others ; butas I said before, lamquite satisfied formyself, that in a serios of yearsit will not answer." Añold man, who lias worked for us for tears, sald to mo, referring to a cullivator, "You will gel tired of those things be forelong:"
The other article I would allude to is, "wood "ashes injarions." Now, this to me is a new inea. I
hacd alw:ys supposed wood ashes, leached or unleached. wero beneticinal to the laud, or perlhapa I alhouled say, to the crop growing on it : :and I rumol help thinking, that there were some conilitions of the soil that escapea the olisersation of the yersoan who related the facts stated by your correspondent. I will just mention two instances in which the use of nalues just mention wo nstances in which the use of nelues
proved highly benefiaial to the crop. When we purproved highly heneficiait to the crops the lack of the house a large herpo of teacted nohes, say threo or four cart loads. They were carted out on a piece of grass land, perhaps nibout three neres. It is more than twenty-flve years since, so that I cannot be very exact as to the quantlies of elther the land or ashes ; it was an old soll, nothing except a little Timothy and June grass growing on fit. Another part of the same yard was slressed with barn-yard mannre. I cannot renember if plaster was sown or not. The piece that had the ashes was covered with a luxuriant growth of white clover. so thick, that it was hard to get the scesthe through it the other part on which the manure was put, was but little benefited. I do not think there was a ton on the whule of the three acree. The other case was one in which a dressing of plaster and ashes was applied on wheat. $I$ had that season ploughed part of my summer fallow early, before it wus thorougbly dry. This we conld not get to the same condition as the rest of the fullow. though we gave it extra work with the drag and cultivator ; and when the wheat came up, we conld see all through the field the line of the early ploughing. The wheat was thin, and did not seem to grow inke the rest. I had some plaster and ashes len from like the rest. Thad some plaster and ashes len rom the spring, and told the man to sow whint there was
on the wheat where it looked so bad. Now for the result. In the spring the wheat began to show the efects of plaster and asles, and at harvest we could see exaclly where it had been sown. The wheat was more eren in beight, and the ears larger and better filled than on the other part of the field. Both these cases prove that there is some benefit from the use of ashes on the land, and $I$, for one, shall not hesitate to use them to the extent of my ability to procure then.
..

## Hydraulic Stumping Machine.

To the Elitor of Tie Casada Famuzia.
Sir,-The ordinary stumping machines which I have seen are, many of them, ineffeient, uthers, again, so clumsy and unwieldy, that, as a general rule. I beliere there is but little to be gained by using a machine at all So many more hands, horses, and other etcetaras are required, the progress made is so slow, so much trouble and time are recuired in cleaning off the soil from roots and so fort's, that a couple of stout men accustomed to tisis kins of work will undertake to stump, burn, and level per acre quite as cheaply as can be done by a machine. I speak of this township, where our stumps are chiefly pine. I bave myself paid from $\$ 25$ up to $\$ 40$ per acre for taking them out.
I have often been surprised that some wide-awake inventor never tried the water or hydraulic power urinciple for this purpose. Any one who ever saw this kind of press at work could not fail to perceive the special adaptability of its principle to pulling up stumps. It is used in England for a great variety of purposes, chiefly in compressing bale goods, and in a pariety of linen and other manufactures. Any given amount of pressure can be applicd according to the power of the press ;-five hundred, a thousand, ten thousand, or twenty thousand tons! It makes no difference. A few gallons of water does the thole business.
Without a diagram, it is not very easy to convey to persons who have never seen it a clear conception of the form of this machinc. Most people, however, hare seen a large cheese press. Suppose this and the pressure applied upwards-a bnx below for the water, and the power worked by a sort of piston something
after the manner of a small pump. This principle could rery casily be applied to pulling stumps. Have a brace of rery large and massively-strong wheels, axle to correspond, a pair of slafts, to admit a horse and the machine or press, fixed on the axle, so that the wheels allow it to be placed over the stump to the wheels allow it to be placed orer the stump to
be extractrd; fix the hooks and chains armly ; next apply the power, and the work is specdily accomplished; indeed, as oasily and quickly as a man, in the fall, can pull up cabbage roots. A strong hurse would move the machine from stump to stump, a couple of men would first apply the power-and then clear of the soil from the roots as they went along By this means the work could to accomplished very much more expeditiously, as well as at much less
cost than by any other method at present known

The next consideration would be the mattor of axpense. That would vary accoriling to the power of be land in England fur foum sio lo $£ 80$ say that for a mather of some 5.500 a mas ine could lie furnishod complete rasdy for use by which two men and a horse conld these out, with case, 6 to 12 stumps per hour. The cost per acru, my lmpression is, would thas bu reducel fully ono half. Can no one be fonnd with lugennity and spirit enongh to constrict this machife? A handsome thing might he made of it; while a great boon would bo conferred upon the country.

V'ohurn.
W. S.

## A Flax Puller Invented.

## To the Eilitor of Tur Caxaba Famyer.

Sip, This suliject of flax culture is exciting some interut in this section of the Provinct, and during the pist season is to $\mathbf{1 0 0}$ tons of the scutched fibre has been grown in Compton Connty, principally in the Township of King and vicinity, where the Commission of the 13 A. Land Company bas taken great pains to introduce it, by supplying the furmere with seed and agreeing to purchase the flax at the fair market price for exportation. The past scason proved very unfavorabile, as much of the flay lodged. In an article on this subject in your firat num. ber, yous say:-"A Flax l'ulling Machine which will suporsede the necessarily slow hand process, is greatly needed. The inventor of such a machine would be sure to make a fortune by his patent." 1 have much ploasure in informing your read. ers that such a machine has been invented and tested by practical use. Mr. James Ward, a very intelligent farmer of King, in Compton Co., eowed two arres of thax last season, and after he hail put in lis crop set himself to thinking how be could manage to harvest it without resortiug to the slow process of hand pulling. The result was that be has invented a machine, to be worked by haud, whic! will enable him to pull three to four times as much ir a given time as by the ordinary process. Ife pulled his two acres at the rate, when it was not lodged, of an acre a day, and when lodged, of half an acre a day. This Flax l'uller has been patented, and a sample will shortly he forwarded to one of the agricultural warehouses in L'pper Canada. Its price will be from $\$ 5$ to $\$ 6$.
S. Waltos

Sherbrouke, February, 1861
[Xote br Eu. C.F.-The above letter has laid over longer than it ought to hare done but for the great pressure of correspondence on onr columns. Our correspondent has just informed us that a sample of the Flax Puller abore referred to has been sent to J. Fleming \& Co., of this city. He also describes a machine in course of construction by the same party, for the purpose of preparing flax and bemp for incorporation with wool, to be manufactured into cloth. It is expected that this machine, if successful, will prepare from three to five hundred pounds of abre per day, and make it fit to be carded with wool by the woollen mamafacturer. When completed and tested we shal

## Sowing Plastor, \&

To the bilitor of Tirk Catada Farmer:
Sir,-1 have a quantity of plaster to sow, and it is a slow process to sow it by hand. Will you or some of your correspondents please inform me if there is any machine for sowing it more quickly ?
Tbat ras a good hint in the second number of Tue Caxapa Fahyer about farmers having a "neglected corner" which might be turned to good account. 1 bad a "neglected corner" of two acres that laid idle for twenty years. It was a rough, wet piece of land, sloping anay from the bara. I summer fallowed and drafned it well, snd now it raises moro than five acres of some of my land. It is so situated that I can let the liquid manure from the barn-yar flow over it in furrows, which makes it very rich.
I wish to encourage my brother farmers to raise root crops. Last ycar I sold $\$ 100$ worth of hay, and wintered my stock better by the help of turnips than I could have done by feeding them all the hay I sold. I could not keep half the stoct I do but for the turoips. I raise about four acres every ycar, and for th last threo yeara haro had $1,000^{\prime}$ bughcls por acre.

I have hath ont much moner in draluing, and I aro derived great bunefit from it. At first I mate wiono srains. but if I had had the experience ten gears ngo Thave now, I would have put all hue stones in the stone wall that are now buried in drains, nud hare put in wood pipes. These do well, are cheap, and I belleve wood ples.
will last bify yersen. I pet lumber sawn at the mill two and four inclues wide, nad one inch thick, and make pipes five fect long. buraled at the ends, to nit f .

JOIIN MLFSARH.
Otonabee, Ful). 27, 1864
Nuts: ur Ed. Casala Fanueb.-There is a machire designed to sow plaster, ushes, lime, guano, salt, or any fine fertilizer,-the invention of Mr. l'ierpont Seymonr, of Last lloomfield, Ontario Co., N. Y. It can be made to sow any desired quantity per acre, The Rural New Iorker, in a recent number, describes and commends it. The price is $\$ 45$, American money. (ireenbacks, which are legal tender in the linited stateg, can now be bought at rates which would greatly reduce the cost of the machine to a Canadian purchaser.

## How to Get Change of Seed,

To the Eulitor of Tas Casaba Fabmea.
Sit, -In your last issue appears a letter from a correspondent on change of seed. I believe there is bardly a farmer, either in Canada or elsewhere, but is aware of the importance of this subject. But the great question is how to obtain it. Changing with our neighbours is well, so far as it goes, but there is a limit even to this. What is wanted is an Importation of fresh seeds-not a few pecke, but, say a thousand bushels-from a climate similar to this. Such a climate may be found along the shores of the Mhine and Danube.

There is an extensive plain in Lower Austria extending from the last ypur of the Alps to the Carpathian Jountains; the district bas a climate eimilar to Canada, the soil varying from a light loam, with a gravelly subsoil to clay of more or leas tenacity. Great crops of very superior winter wheat are raised in this district. This I know from experience, baring travelled the entire district many times, in all seasong, and on foot. What I would reccramend is, that the Canadian Government should, through Her Majesty's Consul in Trieste, procuro eamples of grain from Lower Austria, and fromany of the numerous Consuls on the Rhine, of samples from Cpper Rhine or Central Germany. And while about it, I would recommend that samples should be had from Ieghorn, of wheat grown in Tuscany, and from the valley of the Arno: this may be done through Wm. McBean, Fsq., II. M. Consul at Leghorn. The Tuscan wheat is celebrated as contining in greater amount of brown in Britain and is bought up by the English manufucturers to be made into starch.

Yours respectfully,
G. RICHARDSUN.

Arva, March 16, 1864.

## Canada Thistles Again.

To the Eilitor of Tue Camama Farybr. ;
Sir,-I see gou have received diferent communications on killing Canada thistles, and I thonght I might as well send you my way. I plough them about six times during the summer ;-five times might do if it was a dry summer. I plough then the tirst time about the beginning of May, and so on near the first of every month till Octobor. I slways harrow them the same, or next day after ploughing them. The harrow drags a great many of the roots out of the ground. These must die. Sometiracs you must plough sooner than a month, and other times you may of taem go a litle longer, accoraing to the growth air hem. My rule is never to let them up. Keep the air from the main root one summer, and they will die.
I assure you 1 have proved it. Some will say, " what an immense lot of work to kill thistles; it won't pay. Well, If it don"t pay to kill them, it won't pay to g:ow theu. It might not pay a tenant on a thred years' lease, but it would on a fire yearr' icase. At any rate, it will pay a frecholder. The land, after such a course, will grow angthing and everytbing. I gencrally sow barley and seed down; wheat might pay as well, only for the midge. When there are but a few patches of thistles in o field, it is better to work them separately threo times, as throe ploughings are enough for the rest of the field.
York Township.
G. W. D.

## "Grasses Worthy of Culture."

Ti, the Filitor of The Casaid Fabiza.
Sur, - In the number of Thas lianusis for the ist Varch, under the above heading, are mentioned several grasses which are alremly widels calli vated, und have bean thoroughly tested, such as Timothg, Orchari-grass, Kentucky IBlue.grass, and Red-top. meaniug by the last, I presume, Agrostis Vulgaris, a common and very valuable grass, spread over hilla and vales, forming a son, lense lurf.
But are there not some olhers at least worthy of experimental culture, as l'oa Serotina, Meaduno Licellop, or Ford Mfeadoro, as it is called in Massachusetts, an excellent pasture and meadow grass, on low moist soils. It is somewhat surprising that reliable experiments have not been made with other indigenous grisses, as Calamagrostis Canadensia, or Blue-joint, Which is nuch songht nfter in our lumbering districts. Lilymus Virginicus, or $1 t^{i} i d$ Rye, nlthough a coarsegrowing grass natumally, mighit yet be madu to produce good hay. Then thero is Cinna Arundinacea found in shady places, and much sought after by cattle, that might, by cultivation, be made a valuable addition to our forage plarts.
All these grasses should be made the subject of experiment by our young farmers, the results of which would be very interesting, and perhaps prontable, to the many readers of Thr: Casida Faresir.

Quebec, 14th Maŕch, 1864.
K.

## More about Lucerne.

To the Eilitor of The Caxapa Faiser.
Sut,-laterne requires a light, warm soil ; poor sands and wet clays must be aroided. Iand requiring winter furrows will not answer. Sow in April five to six pounds of seed and one bushel of barley per acte, both linrrowed in and rolled. The lucerne requires carcfil weeding the first year, and after the barley is cradled. the stubble should be removed. If the land has been cropped to carrots for taree years, very little weeding will be necessary. In a favourable season, it is often cut ofe times. Cut when the flower forms, and always the day before you feed it. Never pasture it with sheep.

COLIS D. ANDERSON.
Eoflington, 26th March, 1864.

## Manure Erempt from Toll.

Tu the Elitor of Tie Camida Fubueil.
San, I was lately engaged inacate before a Sagistrate on behalf of a client who had been forced to pay tull on manure which he was drawing, and I noticed that tho greatent astonishment prevailed amongst the farmers present that such loads were exempt, In conversation, too, I found that they were in the habit of paying in such cases, not being aware of the wise provision of the law. A hint from your paper night save the farmers of Camada hany a pemy during the year.

Irockville, March 10, 1864.
G. M.

## Pedigree in Plants.

Tus general superiority of blooled snimals. that is, those whose pedigree can be traced through families possegsing marked and fixed points of excellence, is now generally conceded. It is acknowledged that an equal number of the Durhams, Devons, and Herefords, among catte, of Merinocs, Southdowns, and Cotswolds, anong shecp, etc., will, as a class, show superior qualities to the misceltaneous stuck known as natives. Rut the same principle of superiority from breeding among plants, has not yet been as fully recognized. Yet there is abondant reason for supposing that the same law is equally prevaleat in the vegetable as in the animal kingdoin; that "like begets like," and that oloservances of this law may he turned to most pofitable account by cultivators. To some extent this is acted unon. in saving the best seeds of grain and other products, but it is only recontly that definite experiments have indicated how great insprovement can be realized by proper and continued. splection of secd The "rperimental researches and success of Mr. F. F. Hallet, of Brighton, England,
have already been noticed in the Ariculturist. New have already been noticed in the Agriculturist, New
nterest has been excited in this subject rccently by a
meeting of a large number of the leading farmers of Eagland, to inspect his firm anil witnees the progres of his operations. From year to jear this gentleman lias selected, not only the best heads of wheat. but the best kernels of the linest ears, and used them for seed. One of the visitors says, "two or threce fiatures in the appearance of the wheat felds forcibly struck us, namely, the extrnordinary atreng thof the stems which anabled them to withatand a very severe storm occuring July 2lst, and maintain their upright position ; the uniform size of the ear, and the absence of 'under corn' (ilvarfed wheat). We connted on one stool 42 ears, nil of which were of the game size and as near as posssible, of equal hight:' In reply to the question, "Wbat was the the average product of his wheat crop within the limits of truth in stating that the maximum was gix duarters ( 48 bishels per acre), and the minimum four and-a-half quarters ( 36 bushels) per acre. Ife also gave three instances which hat come to his knowledge of large productiveness of the improved Wheat, which gielded respectively, 72 bushels, 62 bushels, and 60 hus hels per acre,-- Now what has been done in England, can be repeated here. No one can fix the limits to which productiveness may be carried by following out similar experiments. May we not hope in a few years to find improved "breeds" of whent, of corn, and other cereals in this country, as well marked, as are the established strains of horses well marked, as are the established st

## Mode of Cultivating Beans,

Tus Albany Culivalor recomments the following pian of cnltivation :-
" Many suppose.that poor land is necessary to raise white beans-only because they will grow better on poor land than other crops. Manuring the land for them las doubled the crop. Nothing is letter for them than good rich corn land. If the soil is rather heavy, an excellent way is to turn ovor clover-sod 1:ic in spring, roll and harrow it, and plant the bcans. There will be less hoeing needed, as fresh inverted sod is usually clean soil. When the soil is free from peeds, tho best way is to drill in the beans, 30 that the drills may be about $2 d$ or 3 feet apart, and the secds about 2 inches apart in the arills. If a drill cannot be had, furrow out the land, and drop the beans by nailing or tying a small tin pail to the lower end of a rod about the size of a walking stick, make a holo in the bottom large enough for the beans to piss out, and walk along shaking it over the furrow. The quiantity or distance may be perfectly regulated by miling the Lole the right size from trial, by shaking more or lexs rapidly, and walking slow or fast. If the soil is weedy, plant in hills a foot and a-half apart in the row, and seven to a hill. The beans will be yellow in three months and ready for harresting, which is done by pulling them. If the weather contimnes dry a few days they will soon be dry enough, if placed in small lecaps. If wet weather is feared, take the bunches and place them in small stacks made around a poledriven into the ground, radiating from the centre or pole, and with cither roots or tops out ; these stacks may be as high as a man can easily reach, and sbould be buile on four smatl sticks at the bottom, the size of stove wood, haid across, to keep the beans on the wet ground, and to allow the drying wind to blow under. When quite dry, draw out the pole and draw them to the barn, ithe thrash in winter."

## Thin Seeding,

Rev. Gro. Whanss in a Lecture before the hoyal Agricultural College, among other thmgs spodse as follows upou this subject:
"Ir is not the quantity of seed, but the manner in which it is put into the ground, on which sucess depends. For my part were a prize offered for the largest quantity of the finest grain of either wheat or barley. or oats, and I were to contend for it, I would not use more than two pecks of any kind of wheat an acre and of very long-strawed kinds nol so much : nor would I use more than 21 pecks an acre of cither barley or anis.
" But before I use the seed of any grain, 1 ascerLain, as I can do in fire or ten munues, how many grains theco are in a bushel. I do this because of wheat, for example, some seeds are nearly twice as large as others, and the same of barely and oats; and because I stint the number of secds to given guantities of land, patting then in one by oue, as Xenophon, the learaed Greek, describes they should bo to lis disciple Socrates.
"If men would only reflect and exercise the hrains they are supplied with, it would be impossible for them to put their 37 lushies an acre or 45 grains of seedbarley, and their 30 or 35 grains of wheat, on every scluare foot of ground, as very many do ; and some cein alvertise their doings as if they were wonderfal exploits; whereas, if it were not common, the man who shoulil use those numbers of reeds would le considered to he insane, and probably, puit under the care of a liecper, or into conitnement.

## Flax Items.

A coxpsery has been formed in this city, who infend to put up machinery in various localities in the northern part of this State, and in Wisconsin, where a sumbient number of acres can be engaged to rarrant the expunse. They will, we are told, pay a fixed price for both seed and straw, or will pay 80 much per acre for the crop, and take all risks of failure.
At Jancerville, Wis., Mosars. Mallory a Blackwell bare contracted for five hundied acres of flax, for which they furnish the seed, aut =le the rotled straw, one of their own men overseeing tis process of spreading and rotting, payifig the farmers trenty dollars per acre for the tise of land, labour in growing, Sce.-Prairit F!urmet, Chicago.
ze Har-yows shoutd always be well ventilated. and not battened or enclosed with matched boards.

厷至 Flax is getting into extensive use in Wisconsin for manufacturing purposes. At Milwaukee there are exhibited specimens of flax white as snow, and also coloured with the most brilliant hue ; calico made of fifty per cent of fax ; collon flannel one-balf flax ; relted cloths, and a variety of other manufactures of which tlax is a component part. As handsome an article of brosalcloth fs manfactured from this coltonized flax as could be desired.
Virisitr of Tixoriy Seen--It reply to the enquiry, "At what age does Timothy seed lose its vitality and cease to germinate $q^{\prime \prime}$ the Prairie Farmer says :--If well kept it will germinate when threa or four years old or eren older. Should prefer not to sow even the third year without testing it. A simple test is to place between thick cloths, kept damp, in a warm place. If gooll the seeds will sprout in a few days; if poor will soon mould. Do not let Fater collect in the vessel in which your cloths are laid. If a sancer is used it can easily bo turned oft.
Keep Stock off the Meadohs,-Many meadons are seriously injured by stock in the spring months. They are permitted to run upon them when the frost is leaving the greund, which is sof and easily cut up by the hoofs of horses and cattle. The scanty picking they get will not begin to compensate for the damage they cause the meadow. When the ground is soft, ns it nlways is in spring, stock should be carefully excluded. It is also very bad policy to pasture meadows in the fall. Every sprig is gencrally eaten off, and the ground and roots are left cold and naked. If the growth after cutting the grass had been left, it would have acted as a mulching, keeping tbe rools warm and uninjured by the severity of winter. A good coating of aftermath laying upon the ground all winter is equivalent to a corering of snow, which all know to be highly beneficial to land.
Ifoyesade Pocmaette.-A correspondent of the Working Farmer says:-"Instead of paying one dollar ard fifty cents per barrel for poudrette, I mannfactie etwenty-five barrels per year in the following mann ir: Under the privy I hare a cemented stone vanlt, fre feetsquare, aud two and one-half feet deep. Into this I put six barrels of sand, two barrels of swamp-muck, one barrel of hen manure, and some forest leaves. After four months, this is taken from the vault and deposited in the hen house, where it remains, and is shovelled orer frequently, until quite dry It is then put up in barrels ready for use."
Nors ny En. C. F.-We hare here one method of turning to good account the richest fertilizer that can be put on land. It waild be better, however, to dispense with the sand. Dried muck or soil of ordinary quality will answer every purpose. If enough be put into the well or vault, and the whole mass thoroughly stirred belore removal, all offensive odour will be destroyed. It is not a good plan to pat tho compound into the hen-honse, as it would be likely to creato an atmosphere injurions to the bealt fowls.

## Intey fiusbamay.

## Hurdles for Shoep.

The American Nock Journal has the following $n$ forence to this subject in a recent autnber :

American agriculturisis anach too hute umponzance to the beneficial effeets on the soll by kerping great quantities of live stock on their farms : and. strange as it may appear to stock farmers in the North, it is often a subject of remark that " zo and so" has too much of his grass and clover eaten off. the ploughing it under being thought to have much more striking issue than if consumed on the surface
wat the dung and wrine left thereon. . Ia wool ha tatuend slimep to be much more thought of than for murly, it in a pity that nome pruminent breedern do not introdice the use of the common. simple "sheop hurdle," which is unirecweri's seen in England, with out which no farmer there comis keep hin land in condition to bear the consiant drain apon to by the rapid sucessan of erope taken thorefrom. What a change might be produced on exhatuted light land by a good syatem of shuep husbandry, keeping the sherp a groat portion of the yoar in pens on the land ; flret pyc. thon clover, roote. de.,-adopting a courme of rotation with crops which would not onily allow of supporting a largo flock on every farm, bat
ly bringing a fuarth or fith of it in turn each year for toute a much mone numerous hend might be wantered. in alditan to the sherep than waserer thongit possible to be fed alone."
A choap. portable harile for wheep may be made with posis two taches aquare, and crose bars of inch suripn three inches wule. - the strips teitinto the post say half an finch-the whole nailed together, and strengthened with cross braces. A stronger kind is made with bearier posis, and the bare mortioed into them. Wo have seen nuch hurdles in use in the noighbourhood of Guelph, the sheep being folded on delds of vetches, Ac., and leaving the land in fine order for a aubgequent crop.


PAIR OF SHROPSHIRE DOWNS.

Mrbswiti we present a fine illustration of a breed of sheep which ranks high among Short-Wooled British varieties, and is descrvedly attracting much attention from flock-masters in this country. The Shropshire Downs are the result of several crosses and have only quite recently established their ciaim to be considered a distinct and independent breed They were first brought into prominent notice in 1845 , since which period they have rapidly advanced in public favour. In reference to their origin and progress, Mr. Charles Howard of Biddenham, Bedfordshire, in an address before the London or Central Farmers' Club, in 1860, said :-
"This breed has been established by a prudent selection of the breeding animals, and I learn from a gentleman who kindly favoured me with this information upon the point, that the late Mr. Meire was the first to improve upon the original type. This he did in the first place by the use of the Leicester; as their faces became white he would then have recourse to a South Down wr other dark-faced slieep. It was, however, left to the son to carry out and to bring to a successful issuc what the father had commenced and Mr. Samucl Meire no doubt may be looked upon as the founder of the improved Shropshire Downs We gather from his address to the Wenlock Farmers' Club that he accomplished this, not by resorting to any of the cstablished breeds. but hy using the best animals from his own large flock * * Lately a
very great change has come over the breedors of Shropshires; they have availed themselves of larger sheep of heavier flece and carlier maturaty, so that the only amnity they bear to the original Shrop are dark faces and legs; they now pride themselves in exbiluting some well fatted shoarlings (yearlings past,) weighing upon times 226 bs . to 241bs. per quarter, but this is not gencral."
The Shropshire Downs are nearly as large as the Leicesters and Cotswolds, and yield about the same quantity of wool. They bave the dark-coloured legs and face of the South-downs,-the same nice round compact frame, and even uniform symmetry of ap pearance, with the additional recommendation that they are about one-third heavier. They are remarkably free from liubility to discase, and are very hardy. They are prolific brevaers, arrive at maturity early, fatten quickly upon a comparatively small quantity of food, and their wool. when they are well fed, is of that peculiarly glosey charactor which is much desired for the manufacture of a certain class of lustroas goods. They produce a superior article of matton, and in this respect are only excelled by the South Downs. Very fine specimens of thin varicty of sheep Lave been imported into the United States and Can ada. .Randall, in his Pradical Shepherd, gives an account of a ram imported in 1861 whoso live weight is 334 lbs., and who yioldod on the 16th May, 1863, 17 lbs. 5 oz of washed wool of $11 \frac{1}{2}$ months' growth. Ho also
mentions a threeyear old ewe, whose live weight is 241 lbs.. and when shenred at the datij jast mentioned, gave 9 liss. 3 or. of wasbed $n$ ool of 114 months growth. Mr. Ceorge Miller, of Markham, gives the Shropshine Downs a very high character, and says th it for health Lardinnss, and casiness of kee, they exeel all the other sheep, of wheh he has four kinds. The Counen of the Provincial Agricultural $\lambda$ ssociation, at its recent meeting; in revising the Prize List for the Exhibibition in September next, erectod this breed into a separate class, and we may therefore expect that it will henceforth attract more notico than it has hitherto done.

## Oure for Scab in Sheep.

For the benefit of Wool-Growers, I send you a recipe for tho cure of scab-which has been used with great success in this county. It has the advantago of boing cheap and not injuring the constitution of the shecp, or persons applying it, besides being a sure cure.
The recipe was procured by a shepherd of thes county from hin father, in Ireland, who lias charge of abont 600 sheep there.
Recipe-To one gallon of Tobacco water or Sall brine, add one ounce of Corrosivo Sublimate; one ounce of Sal Ammoniac ; one ounce of Arsenic ; onefourth ounce Blue Stone ; one-half gill Oil of Vitrial ;
one gill Spirits of Turpentine. The compounds to be dissolved in boiling water : the oll of fitriol to be nulded when the liguid is cold, and the Turpentine just before using. If a pereon has many shecp to doctor, the should have a yoke to linld them. $A$ very simple one is $n$ forked post. hee fork nliout two feet simple one is $n$ forketh pott. the fork
ablove the ground, with n pin through.
Befure npplyng the medicine, the sheep, when atsmasell bandy, sumfla ber scratelued with a long-loothed curry comlio or acarificu witha knifi--One man pouron the melicine, whille another rubs it in, with his lands well arenaed. A person's hands would get wore, in time, if not greasel. To make a sure cure. the sherp should be gone over a seconal time, nafer. an interval of ten days.
For snake bites, we acnilfy the wound, or where swollen. and put in salt, anit selidom lose a sheep when tikent in time.-sol. Jetedt, in California Slocl: finurnal

Cost of Keeping Various Breeds of Sheop.

## So the bilitor of Tux: Caxada Fabuer.

sili, -Lan jun ur some one of your ummerous entrefpondents inform the farmers of canadn of the diff. reme In the cust of heeping the lecicester and cots. wolds. nud the -uthalown and Merino shecep: Will


Whitchurch, March S, 1864.
To l'revent Foothot in Sheer--The North British Ayricullurist says that, thitty years ago. Professor Dick showed that, in the great majority of cases, this diacease Easilis fruat the houfs not teetug properly and r.'gularly worn duina. Un haril, gravelly pasurue the frut-rout elldinm occurs. ©n suftand rich pastures the disease may be prevented by paring the feet of the "hiule lock esery sid or eight weeks.
Varrame: Vemion Ras. The ram "Sweeputakes" was brell and is owned by Ealwin llammond, of Vermount. He is almoxt a perfect specimen of the breed, buing defective in no "essential particular. His weight is awut 1 in lims He is fully wuolled, has no es ceraal gum, but possesses abiundance of thin yolk. tie lhas produced 23 thes of wool in one year's fleece. llis constitution is powerful, and he impresses his characteristics strongly on his progeny. His owner has been offered two thuusand fire hundred dullars for him.- Maine Furner.
Sasmir and Wown- Wool at from 30 cts. to 50 cts. per pound pays, but when it figures un from co cts. to 90 cts., it tukes but a few fgures to show the result. With wool at 60 cts., about the lowest price now paid. heep that shear from 4 to 16 pounds are worth having. But many are deterred from buying, be-
cause they say sheen are high. Let ns figure. Cost cause they say sheep ner high. Let us figure. Cost
of keeping one year anil the care $\$ 2$. Wool, 4 pounis of keeping one year anid the caro $\$ 2$. Wool, 4 pounils
at tio cts. per pound $\$ 240$. Aamb, $\$ 2$ co. Total $\$$. at io cts. per pound $\$ 240$. Lambl, $\$ 2$ co. Total $\$ 0$. heaving a balanee of 8 B bexides the manure, and ill interest, as sheep are now seling. The sum of $\$ 30$ in bank pars only $\$ 3$, just what one sheep will pay above all expenses. Thas is 12 per cent on $\$ 25$, or 25 per cent on $\$ 1250$. Does any one object to investing money in other kinds of insiness at 25 per cent profit? When sheep get up to $\$ 12$ per lead. then it will do to say sheep are high. The above digures are made in reference to the common grade of shecp.--N. Y. Journal of Alyriculture.

Reginamity is Feenisa Subir-The utmost regularity should bee obscrved in the times of freeling vither store or fattening sheep, and giving them just the refuisite amount to last them until the next feeding. If permitted to waste hay, they rapidly acquire the lalait of doing so-i. c., picking out the best anil then waiting, even though quite liungry, for nnother feed. If the hay is coarse and was cut over-ripe, especially if clover hay be thus circumstanced, it is not profitable to compel the shecp to eat the oats or refuse; but even wilh such hay, sheep can soon be taught by over-feeding and carelessness, to make a most unnecessary degree of waste. All cexpes ienced flock-masters concur in the opinion that the sheep fed with perfect regularity as to time and amount (making praper allowance for the weather), will do better on rather inferior keep, than on the lest without that regularity. I prefer feeding threo times a day even in the shortest days of winte: ; but many good hock-masters feed but twice. If fed three times, it should be at sunrise, noon, and an hour before dark; if but twice, then the bast feeling should be an hour earlier. Sheep do not stand at their racks and eat well in the dark. It is not very important at what period of the day grain or roots are given, provided the time is uniform.-Randall's Practical Shepherd.


## Eltr Broclor ami Graziry.

## Feeding Stock.

It a morint moveting of the lasswnile Igricultural Isocicty, liolurt Irvinc. Eist . F If s read an inter 8 ang paper un the Raring of l'tansand dimmals The fulluning baed extate on feeding mag prove interesting

It is quite matural to suppuse that if an samat te fiol on rich food. the products of that animal es bouly must ber richer and greater. Compare the composition of hay with linsced cake.
llav-1 year old.

## Albumen <br> 13.13

Albutnen
4.00

ABh
.9 .26

| Liluspord Cak |
| :---: |
| Water - |
| (il - |
| Allmmen - - |
| Fibre and ILe:a |
| Ash - |

### 100.00

In the atso of such highly nutritious foud there is great danget 10 lo specially duarded dganst, that of portion of it pasning through the animal aithont being digested or assimilafed into its system To lead proof that such waste does ocenr is monecessary. 1 have known swine to subsixt entirely from tle fuod they could find in a dung leup. This cvil is to great extent the result of the use of such concentrated materials, and it certainly is not the proper manner to use those for cattle wihhout any alluixture of such incert materials as bran or sawdust. In Norway am cold sawdast forms a principal ingredicot in the tood of animals after being well boiled. I can imagine jou think I am now runing off the rails but strange as it may appear, pure wood savilust has so nearly the same composition to sugar, stirch and fum, as to be almost illentical. So much 80 is this the case, that for many purposes sawdust serves the same dinl as sugar in manufacturing certain cromical preparations. The stomacles of afl animals require fur the proper digestion of their food to be distended, and this you cannot do with such strong rood as linsed cake, corn, or beans, for you cannut gice them enongh to do so withont serions illnees resulting. Dilate these with bran or sawdust if you will, and the animal will thrive as you clange the composition. or lower its power to the virtual tandard hay.
Idinsecd catio for every pount used would do with six or cight of brin to bring it to the lerel of hay. Thus linseed is mucli cheaper as a fattener than even has ur grass. It might want the oil, as this tenils only to heat the blood ant form fat, which I do not holl to be the legitimate end of stock feeding. At present prices, ton for ton, wheat is as chenp as insecd, but compare its composition with that of linsced. It contains only 1 tht of the flesh forming matters present in linsced, so that it is four times more costly in real fact. Indeed iried clover or clover liay contains as much nourishment as whent.

## The Herd Book and Grade Stook,

To tice Falitor of The; Casaba Farmein.
Sint -1 ann glad to know that the Agricultural Society has in course of preparution a Canadian Herd Book, as I have long considered that such a work was much necded.

I should like to make a stggestion, which, I believe, if car-ied out, would greatly arld to the improvement of cattle in this Province. We havic many cattle here in Canada, which, though not thorough-bred, are so nearls so, that when brought among thoroughbred shoit-horned cattle, could and havo successfully competed with them, as was shown in the case of a bull, with the pedigree of which I vas well acquainted, and which was onlysix partsthornugh-bred, but which, nevertheless, carried off the first prize at one of the Provincial Shows from-three and twenty thoroughbred cattle. Now, what I think would be udvisabic, Fould bo to take cows (not bulls) that are six parts thorongh-bred, and enter them as such in the Cana-
lian llerd I Sooh. My reason for alvocating this plan is. that there are many farmers mho have grale cous pretty wedl bred who will not trouble themselves to take them to a thorough-bred bull, ns they say, "It is no goonl, the calves rill not bo worth nuth morund I shall never lie allowed to compete whth stock lired from importal thorough bred short-horned cattle. Lou will nerccive frum the abore that I consiller it takes cight crosses with a thoroumh-bred bull to make a thorougli-hrmil cow. It is the opinion of many that it is impossible for us to raise iforonghmany that it is impossil)le for us to raise thorongh-
briol stock from native cattle, fut I should like to bred stock from hative cattle, but I shonld like to
know how they were first introduced into England, if it was not from judicions crosses. mate with different crule's of cattle?

IR. G. T.
Salton, C. IV.
 suggestiun to almit cons anto our forthcoming Shorthirn ITi ril Jhwoh tha' ire not tharangh braid "nuld bo in opposition tu all procedent and experience in matters of this sort. The great ubject of such a publiration $i$ - tus suppis authersic infurmation as a cummen standard of reforence. with the viow of ascer. taining and scemring proify of $h_{\text {moml }}$ The case of the lall to whila our correspundeat refers uccarred, wo presume, sume scars lach, when a mach lueser nethou of admitting animals to competition prevailed at the Provincial Exhibitions than now exists. Crosses of short-lorn bulls from selected specimens of our native cows are frequently very fine, but it is well underderstool among practical men that it will not answer to lired from them By the frequent use of pure bred Lulls uf uiflucat lieeds with guod grade cows, the stoch of the country will become gencrally improveld and every enenuragement should begiven for the liest productions of such animals. But in our Register and Herd Book purily of blood must be regarded alsolutely as a.sine qua noz.

JudgingWeight of Cattle by Measurement,

## To the bilitor of Tite Camana Faryer.

Sir, - A better mode of estimating all cattle by measurcment than that which appeared in No. 5. is the following taken from the Catlle Keeper's Guide:-
Tahe the girth just behind the shoulder blade, measure from the bone of the tail which plumbs the line with the hinder part of the buttock along the line of hach to the fore part of the shoulder blade, say, girth 6 feet 1 inches, length 5 feet 3 inches, multiplied make 31 superficial feet, multiplied by 23 , that being the number of ponnds allowed to each snperficial foot of all animals measuring less than seven and more than five feet in girth, makes 713 lbs., the weight of the ani mal. When the animal measures less that 9 feet and more than 7 feet in girth, 31 is the number of ponnds alluwed to the superficial foot. If an animal, calf, or pig measures 2 feet in length and 2 feet girth, 11 lbs. to the superficial foot is the number. If 4 feet 0 inches in girth and 3 feet 9 inches in length, 16 is the multiplier, being the pounds to the foot. This measurement in all cases dues not include offal. If the animal is only half fat a deduction of one in 20 must be allowed. This mode of calculation makes a very near appronch to accuracy.

London, C.W., March 20, 1864.

## Dogs.

To the Eilitor of The Caxada Famer.
Sur,-I would like much to see one or more articles in your interesting journal on the dog and its treat-ment-feeding, training, breeding, de.-as a work devoted entirely to this subject is not witbin the reach of most of jour readers. There is scarcely a farmer in Canada who does not keep one or more dogs, cither for sporting or other purposes; but the circulation of your paper is by no means restricted to the agricultural class. And as the dog, above all other animals, is the chosen friend of man, in whatever sphere he may more, information on this subject I have no donbt, wonld meet rith dne attention from most of your readers, and more cspecially from

Yours respectinlly,
Hamilton, 18th March, 1864.

Poiuts of a Good Beast.



Veck . . . . . . 1-licing well sprung from shoulders and slightily arched.
Nick roill
Nhoulder and crops
Frominent and futl

13redst
Bark
l,oin ormer being well thrown back and wile at top, "points" well cuvered anil not prominent. Crops lioing very fill.
H...chs

Rumps
Quarter*
Thigh
Twists and fall.
breadhand levolness lirvallh, and beling well covered, hot iow.
Ibreallh, and bring at right anglers with backbone $2-$ Sut being drooped. 2-- Devinth, Feveluess, and being well billed up.
lloch being well heofed imward 3-Coming well down.

Flank
1-being well bent, and not mrned to.
lack rils
Fure siby
forward. 3--Meing well sprung from hack and round.

Quality and hatir kumat and comang well down.

Color in not licing too thin. hair long and silky.
lidder and milk vessel 3 - Niell formed teats and ullder; large milk veins.

- ('or. of (\%. Gent.


## Stock in the Vicinity of Quebec.

To the Ealitor of Tur: Casaba Farmer.
Sin,-The Agricultural Society of the city of Uuelsec have, with much trouble and expense, imported thorough bred animals from Enghand, both horetes and catlle. They deserve mach praise for their laudable endeaveurs to improve the breed in this vicinity. There have also been importations made ly a privale gentleman of cattle, sheep, and pigs. It is said that he will again, this spring, import sume uther specimens of short-lorn cattle and llampshire sheep. The pigs that were imported last year were the improved Berkshire.
Our cons, many of them, ate pretty good, but decriorating fast, owing to the niggardly parsmony of our breeders in not being willing to pay for the service of a good loall. I understand that the in. purted bull ". Sweetmeat, although standugg at the low rate of s3, served only twents-two cows, the majority of our farmers preferring to pay twenty-five cents for beasts not worth theirsalt. We improve slowly, I must say; but still we advance, thanks to the elforts of at few.
Quebec has always been noted for its sup. or breed of horses, and we have again to thank the Quebec City Society for the valuable addition of Canwell, a thurough-bred stalliun. He is by
Stuchwell," wut of May bell, the best bluod in Fingland. Bought last fall at a large price, and standing at the low price of $\$ 10$. I hope that the Society will be able to pay their expenses at this rate, but I fear it . Such a borse is an acgusition to any town.

MATTHEW D.IVIDSOS.
St. Foy's Road, Co. of Quebec,
19 th Felb., 1864.

## A Snake Inside a Pig.

To the Eitior of Tine Cavada Farysim.
Stu,-When I put up my hogs to fatten, I noticed that one of them had a singular sort of growl du ing the time I had them up. When I killed them, I was cleaning the lard off one of their entrails. when they happered to break, and I turned out a snake abous twenty-two inches in length. It had a solid hold upon the inside of the gut, and was full of a liquid like milk. I think that was the cause of the animal being so uncasy during the time it was futtening This I can provi by two other witnessers, on oath, i necessary.

STEWART (illl.ILAND.
Kerwood, Warwick, March 12, 1864.

## Large Galloway Calf,


Sirs, -Mr. Irthur McVicil, of Vaughan, sold a luill calf a few lags since, of the Galloway breed, to Mr Alexander Kerr, of liestminster, for $\$ 100$. The calf was only 12 months old, and relghed 900 lbs.

WHLLAM MCNAIR.
Vaughan, March 19, 1864.
Notifin bio. C. F.-This appears to us an alm st increalible weight for a yearling. Is there not a mistike: Should not the tail of the first figure he the other way so ns to read 600?
 of the Boston Cullimior says that he hat a sow which womlet bot unn her pige, aml that after trying varions things without effect, he gave her th fint of rum, which hatd the dexired resula The min was pat into the swill. anl. he says. .. she drank it like any old toper. and 14.15 perfectly quict fur atiree or four hours atterwarl." The Maine fitmer sare the same preseription will prevent sows from eating their young. We suppose the rum makea them feel comforiable.
Mank is Fons.-The following from the Albany Cullivithr will show the necersity of treatiur mares In foal with care, and avonlang rough woik:--" 1 neighbour was plunghing near to where we werent work, a fled which had never been effectually cleared of the stumps of large white oak and hickory grubs. The place hat been grubleed by job-work, nod grubs which shoulh have been tahern ous: ny the roots, had been cat off inerely at or near the surface, so that the man ploughing could not sere or shun them. Of course. every now and then the plough sould strike one. and cither severely jerk or stor. the team. One of the team was a mare not very far from ber time of fraling and whenever the plough was caught by a
 driver, as if slue would lanve liked to tell him that that was not proper work for her. Finally, after showing more and more her reluctance to start ngain, sh reroged absolutely to drawat all. She had never shown any disposition to be baulky during a service of seven years; and at our suggestion that the mare instinctively knew that the jerking was injuring her or her colt, she was released from attempts to force her to continue the work.
l'ms, mer: Res Man.-". Messrs. Eatitors.-I see an adrerisement in your last paper, of pigs for sale. They are styled the l'rince Albert pigs. New I want to oibtain some piga, hat 1 am too mich of a Yankee to buy a Prince Albert pig. If the alvertiser would give his pigs sume other name 1 would like to luy off him; name them Jerusalem, or anything but lrince Albert.

Far.
Sute: Thus raith a subscriber. We fear the name is too well established to be easily changed. l'rince Albert, the late husband of the English Queen. was a gentleman much interested in all agricultural matters, and well known as a promoter and patron of the interests of all the departments of science. Our corresponient ghonld remember that it is the thing and not the name with which we have to deal, and which we must julge.
"The naine ta but the nikhel ostamb,

- Maine firmer.

Note my Els. C. F.- We are amazed to sec our able contempurars, the Mainc Farmer, lealing thus gently with one of the silliest manifestations of republican prejulice it has ever been our lot to meet with. Instead of having a sort of pity for it, if not sy mpathy with it, the trice course would have been to ridicute and scunt it.
Sumino and Packing Pome.-A correspondent of the Anericion Agriculturist furmishes the followirg brief communication on this subject:-- I will tell you my mode, after an experience of forty years. 1 allow the bognto cool atter killing, take out the bones, (rilss and spine) ; cut off the hams and shoulders; then cut the side pork into strips of convenient width ; put a quantity of salt in the bottom of the cask; then put in a course of meat, laying the pieces on the ellyes; then a covering of salt; then another course of meat, and so on until the cask is full. The Whole is caretully kept cuvered with brine as strong as boiling water and salt will make it, shimming the boiling briter so long as angthing rises. The brime is put on cold, and I nm carefnat to know that there is always undissolved sale in the barrel. It is not found necessary to scald the brine in spring. 1 sometimes use saltpetre, and sometimes not. Hams anid shonlders are salted in separate casks. I know of no reliable method of cleansing tainted casks, and would
not take a waggon load as a gift, for storing meat."

A Nise Disorbsir ayosis Cuttis.-hl. W. Burl. of Atlantn, Ill.. gires the following deseription in the Prairic Fhrmer of a discuser nev at least fin that ace-tion:-"The ninimals nffected appeared to looh ganut, nul would more and stagger nuld fall, in fomi cases not get up again, or if they dist, ouls to fall again nal tlie. Un examination, some blood appeared ahout the noee smil nnis. The reins under the ekin were viry full; thu spleen or melt whs sery much enlarged, and on lireaking the thin skin, or covering, it neemed rotten. The liver seemed unatural. Large fine two nad three year oll stecre, and cows with young calves, secum to ho those ntincked mostly. some fifeen lare died. These catilu had beentwo or three weeks on very luxuriant clover mealows, fill of seed. The same disease has appeared on an adjoining farm." In reply, Dr. Dadd remarks:"From the almove elescription. I should infer that the liscease alluled to is, or very monch resemblex. Spleuic - poplexy, a digease which has generally bamed ho skill of thoer who, in this cantry, hase attempled to cure it. What the conditions atre which favour its: propagation, I am mable to determine, for I hnve known it to affect, equalty, those which appeared hualthy, as well as others, imhersithy in appearance ; hence it is very dinicult for any one to point out the direct canses of the affection.

Gnomuivis Honexben. Every horse should be clean al daily, and his bedaling stran should aluags be thrown behinel him in the stable during the day. Tho mangershould le kept clean and washed oncea week at least. ()ats are the best fooll for horses, according to general experience, and yet they thrive well in Arabia on larle:. A portuon of ground oats shouli always be mixel with whole feed, and for horace hav ing imperfect teeth the oats should bo crished. When the weather is not frosty, the crushed oats should be moistened with a little water and some galt added. Cut hay moistened and rprinkled with ground oats forms excellent food. The hill of the oats is hari and ofen unmasticated, nud passes undigexted through the syatem, thus taking awny instead of imparting strength and nutrition. For medhum-ahaped horses, with moderate work, nine to twelve quarts of oats per day and fourteen pounds hay are ample. For large dratt horses, cighteen quarts oats and sixteen pounds hay: Food consisting of one-third corn ground with two-thirds uats forms strong, hearty, winter food for work or coach horses ; gooll heds and good grooming are as importnat as good feeding. IIorece, liki men, want good dry, warm, clean beds. In grooming, tie your horse so he can't bite his manger, and thus learn to crill hite. Let the curry-comb be very moderately uned on the body to loosen up the scurf and dirt, but never permit one near the mane and tail. Rely mainly on the brush and rough cloth for cleaning ; combs tear out more hair in a day than will grow again in a month, and they ruin manes and tails. Hall an hour is enough for a gool groom to one horse, but one hour's time at the outside, ample to be rery complete. Always les gentlo about the horse's hody, especially his head. Ese whips as litte as possible, and never teaze a herse.-Sicientific Americtn.
Vard: of Camons--Carrols are very excellent "fodder" for horses that have been long kept on highly carbonaceons food, and whose digestive orgins may be out of order in consequence of their constant activity in reducing meal and oats into the elemeats of animal nutrition. With a fair allowance of carrota, ground oats, and sweet hay, a horse will enjoy good health and spirits, hare a loose hide, shining coat, and healthy lungs. A dally allowance of carrots nhould always be furnished to horses, tho subjects of indigestion whose food often runs into fermentation, inducing diarrhoa, or a lax, washy state of the bowels. Carrots furnish an acd called pectic, which possesses the curisus property of gelatinizing the watery contents of the digestive cavities. A few drops of this pectic acid will gelatinize both, and when mixed with the juice of an orange, changes the same into jelly. So that if the alvine discharges of a horse are watery, carrots can be used as a valuable therapeutic agent, both iti view of arresting the same and restoring the tone of the stomach and bowels. By examining the excrements of a horse fed in part on carrots, it will be found to contain no undigested hay nor oats, and thercfore we may safely infer that they promote digestion, so that by the constant ase of carrots, less quantities of hay and oats will suffice than when a larger amount is consumed. and paried with in an undigested state. For fattening animals. carrots are exceedingly valuable. It will be arged ilat carrots are not very nutritious-that may be; still, if they possers the property of gelati nizing the contents of the stomach and bowels, they aid in the manufacture of fat out of other food, which might otherwise pass out of the system.--IIorse Owner's LIand Book.


Elte danty.

## Assooiated Dairies

## 

Sta Thenecompanying letter has been aent to me. It rolater to a matter of so much importance that 1 think it ought to lime a placo in your columns, and therefore I send it to goti.

It is an impisputalle fact that weare and have been puying to our neighbours on the other sille, a irrge amount of moncy for the article of cheese which coubl be manufuctured in the country. and could the plan allulded to in Mr. Brown's letter, be brought into operation iand I know no reason why it should not), t.ae result would ber the creation of a source of rovernum to thoxe farmers that engage in it, (and it is within ise reach of all), and be the menns of keeping a rery large sum of money in the country. I am quite ecnvinced that the plan proposed will secure an artiele of a much better quality than that which now comes to the market (in very limited quantity) from our farmess generally, and I quite agree with Mr. Brown, that a large quantity of milk that now goes to waste could, by this means, be converted into a wholesome article of food and form a respectable item on the right side of the farmers' balance shect. I write these fow lines in commendation of the plan in the hope that it may be brought before the farming community and discussed through the medism of juur columas and otherwise, with a view of inducing neighbourhoods to adopt it.

It is not unreasonable to expect that partles who have seen thegystem in operation will give their views on the subject, and thus induce people to take a favourable view of the subject. Such union cheeso factories could easily be got up, say within six miles of ench other, and Canada would, in a very short period of time, export instead of import a large quantity of cheese. I am, sir, yours respectfully,
E. W. THOMSON.

## Mamifton, Feb. 24, 1864.

Mr Dear Str,-My attertion has recently been called to the eminent success which has nttended the distric: uairics for the manufacture of Cbeese in the State of New York and other parts of the United Stutes, and so much am I impressed with the advantage such fould be to our tarmers and the country gencrally, if introduced into Canada, that I am led to write you on the subject, knowing not only that you are practically interested but also becanse you have special facillites for circulating widely whatever is calculated to promote the good of the farmer.
I recently conversed with Mr. Charles Taylor, one of the mont cxtensive cheese buyers and exporters in New York, on this subject, and was perfectly amazed to learn the proportions to which the cheese trade had grown since the establishment in diferent districts of these joint dairies.
I have the best authority for saying that so cager is the enquiry for cheese made at these Union dairles that the product of a dairy can be sold before a single pound is made.

The checse from such a dairy as I have described will not only be good but it will be uniform, being manufactured by one whose calling it is to make checse. I am told that cheese made at these dairies commands ten per cent. or more over that of oven cxtensire isolated cheese makers-and all because of its reliable and uniform character.
I conld go on extending my letter on the advantages of introducing these concerns into Camada but I hardly think it necessary. One idea however occurs to me that I have omitted and it is that were such dairies established there weuld be in many country familics perhaps a more prudent economy in tho use
of nith than there is at present, as the profis on theac concerne are divlieal cach sear in proportion to the milk delivered: and then there is the great question milk delivercel a and then thercis ine great questinn
which commende itself to us all-Whas shonlit we be importers of cheese?-rather say I, should we lice expinters.
There may very soon be moilfications of the rectprocity trealy compelling our farmera to bestir themselves. Speedy action in what I have been writing abont will do good nny way anil le sure to do no harm.

Lours falthfully,
ADAX BROWN.
Col. Tllow:ons,
Jresit Irov. Ag. Assin.

Willat arf thli Bkay Pasteris for Dainy Cows ?In ansker to this quention a correspondent of the Genesee Fhrmer, in Michigan, recommends sceding down the land with one-half clorer, one-fourth timothy grass, one-eigith June grasis, and one-cighth white clorer. Ile thinks that the pastures ought not to be allowed to lie dorn longe" ihan three or four years before being again plonghed.
Cows Sumpman Milik.-Some covis teats will leave more or less of their milk to leak or run out. To prevent thin leakage, take, after cach milking, a thin plece of manlin about as large as a three-cent picce, and wel it in collodion, and apply it quickly over the orinice of the leaking teat, as it will dry immediately and allhere firmly and so prevent all cecape of milk, and, what is more, it gradually contracts the leakage orifice, and thus operates to some extent at least, na a permanent cure of the eril. This musilin covering can readity be removed at the next milking, and after it be applied again.

The Cow Milking Maohine,


Sovis of our readers haring manifested considerable curiosity to know more aljout the Milking-Machine, we give hurewith an illustration of it, by which its construction und the principle upon which it is worked will be made clearer than by a lengthy description. Its manufacturers claim for it that it will milk the four teats of a cow at the same time, that it docs its work thoroughly, that no dirt can possibly get into the milk, that it is simple in its operation as 2. commen band-bellows, requiring no particular skill, and that it is as readily cleaned in all its parts as an ordinary milk-pail. It only weighs, including pail, sis pounds. l'rice, at the Lacteal Works, Nouthwict, near Birmingham, England, £2, 10s. sterling. We publish the above merely as items of information, our own impression being, as remarked in our second ifsue, that the machine does not answer a very good purpose. It is not very easy to fit the tinger-pleces on the teats air-tight; and when they are so fitted on, a restleas arimal is liable to throw the whole out of gear. Besides which, it does not milk the cow clean: an after slripping being required.

Milax Clesas.-The first drawn milk contains only five, the second eight, and the afth seventeen per cont. of crean.

Atnerver Caeak.-A friend writes us from the city of New York:-"Have you ercr heard that cream from Alderney milt was excellent for consumptives? I am told that one of the most celcbrated physicians in Ediaburgh, whose skili in the treatment of consumption is very great, recommends it as fully equal to cod liver oil, and much more palatable. If this is a fact, it is worth knowing, wad should greatly incrense the value of this brecd of cattle." We. should be glad of the experience of our readers, medical or others, on this question.--Country Genlle-


Whe cyiary.

## Management of Bees.

To the filitor of Tue Canaim Farmer.
Sin.--There is no branch of rural cconomy connected with more ugrecable nssociations than that of bee management. The proverbially industrious habits of the insect, lis extreme ingenuity in the construction of ite domicile and the deposition of its treasures, are such as to excite the admiration of the most nuobservant. The common necessity of destroying the stock, in oriler to olstain the produce of their labours, has been alnaya matter of regrel. Hany plans have been devised for the purpose of obtaining the honey without the destruction of the bees, but they have only been attended with partial success. The object has, however, been laterly and more perfectly attained by Mr. Quinby, St. Johnsville, N. Y., a practical apiarian, whose systean of management has giren this branch of rural economy an importance and value of which it was not bufore considered susceptible, both in the greater productiveness of the bees and the superior quality of the honey.

## wisterina nefs.

Quinby says one will tell you to keep them warm, others to keep thein cold, to keep them in the sun, bury them in the ground, gut them in the cellar, in the chamber, wood-house, and other places, and no places et all, that is, to let them remain as they are Withont any attention. Ilere are plans enough to drive the inexperienced into despair.
My method for wintering is as follows:-I hare an old dwelling-house in which I formerly lived, ncross my door yard, in which I winter my bees. They occupy two bed-rooms that are well plastered and kept totally dark, no fretheat in the house. I put them up in November. Now prepare two saw horses of scantling, legs about one foot long, let those benches be the length of room, set your hives with your 30 inch bottom-hoards across them, the same as In the bee-homse, leaving the floor clear, so that you can guard against the mice; you may have three tiers of hives, one above the other, by putting blocks between the rows of hives in such a manner, thatyou can at all times take off or put on the covers that close the inch holes that lead to the caps. Those small coyers must all be of in extreme cold weather, to let the vapour or breath pass off unto the walls, or otherwise it will accumulate in the hires and drown out the bees, or smother them io death. Without air, the fountain of life, the honeg-bee rrill never subsist, they must have it at all times, in cold or hot weather. Those close rooms for winter must also have air passages, rentilation both in and out, without letting in the light, particnlarly in soft days in winter, otherwise the bees will crawl from their hives and never return to them again. I have wintered my bees in this manner greatly to my satisfaction. Muchdepends on the winter management to make it a paying business in summer.

## dee hocse

The more trees the better around your bee-house, provided they do not cast a shade over it, until after 9 or 10 o'clock; let it front the II o'clock sun. I hare three bec-houses; I find my bees do much the best in one that is only a shed, open all around, a roof sufficient to shed rain and keep of the sun. It lets in a current of air and blows the millers out. A bouse enclosed all round, as some are through the country, will destroy the bees within two or three years at most. Instead of a plank for the hives to stand upon, I substitute troo scantlings 3 by 4 inches sot up edgeways rithin 6 or 8 inches of the ground for the lower tier of hires. Now get boards 15 inches wide and 30 inches long, place them crossways of the house, on the scantling, with the hive on the back eni, leaving a large projection in front to accommodate your bees in getting safe home with their weary date your bees in geting safe lome with their weary
londs. in care of storms of wind and rain that frequently occur in the honey season. This will sare the loss of your most valuable working beca. In the meantime, always keep the ground under the house
nald 6 or 8 fret in front of 1 , clean from reeds and grass for the same purpose. Plentr of old tanbark. our perhaps leached ashes, pat on in spring, will do it. Ahonse 12 feet long, wlit two tiers of hiver, will accommodate 12 or 14 sFarms. Some authors think it better to hare them scattered promiscunusls roumd the garien ;-that is not my oplinion.

## sprina.

Withia a week or ten dajs, aner puiting my lives out in epring. I commence to no to them erery mortiing curly anid ralise the front of each hive geritly, and Ifind more or less worms to dispatclt, which is lulispunsable to, good sucerss for the seavon.
last the hives at this scason stand nat on the bottom hoard withous blocks to the comers, they should ber as warm as posible for the young broois. This raising of the hires to senreh for womms shoutid continue until the fore part of June, when you will find the hees begin to he very minmerons on the bottom beard. If the weather is uct. raise the two front corners of your hive noul put under eneh a block ${ }_{3}$ of an inch thick. snd by about the 20it of June pitt two blorks uniler the bick corners, anal your hees will be apt to put out the worms the remainder of the sellson withont troubling gou much.

## Sw.anaivo

Watch gour leres from $100^{\circ}$ clock to 3 on plemant days from the 3 th of June to the last of the month. When they commence to asnrm, keep yourselfas quiet possible; don't be alarmed, rou will not lose them If you do sourduty, -that is, Iet them alone, they will sothe in a formoments in a place to suit themetwre. Nor place your hive near them, and by gentle means get them into it, or the majority of them, and within one bour from the time they lof the old bive, have them in the be-house out of the sun. Don't Le afraid if you are decently clean and not sweaty. If the bot-tom-board is covered with bees, carry them careffllly unal jou are in no danger of being lurt. or of your bere leaving gnur hire for a honse in the wouls.

## Hisfes.

According to Quinlyy. 1 make my hives 12 inclies Square and 14 inches deep, inside mesaure, which will hola plents of hones to winter any swarm, if properly filled. I have 12 one-inch holes on the top of each hive, $G$ on each end in a row across the top : 1 cover these holes with a $\frac{1}{}$ inch board tached on, and it is then ready for the weece. Thits hire is made of good one-inch pine boards. Never plane the inside of hive or cap, or the bees will heave $\mathfrak{i t}$, they can thold on to a smooth board. My caps are made of buss wood of an inch in thickuess, 14 inches long, 6 inches wide, and 7 inches deep. They are made withont corers, and inserted across the top of the hive ; they hold from 16 to $20 l \mathrm{hs}$. of hones. A yood hire that has cast no swarm will fill those 'caps by the lith of July. Take them on and put empty ones in their place, and take of all craps, as by the joth of August their work is done for the season. I hive that has cast one sirarm will fill the caps Luit once, and should not be removed before the midule of August.

## F.SLL

In Scptember yout can take the blocks from the corners of your hives and let them down on the board: and as the honey is getting scarce, perhaps they may cormmence robbing. You can generallv pata stop to that by closing the passage so that but one bee can pass ata time.

## location ror mees.

Much depends on the section of country for the apiarian. The borders of a large upland forest will produce the most and purest honey. The Iynden of liossia is more celcbrated for the ribundance of its delicions virgin sweets gathered by the boney-bee than any other place I ever heard of. Pine plains, with buckwheat fields abounding, nlways produce honey of a dark colour, of seconal quality. The shores of large lakes or rivers will subject the apiarian to heary losses of his best wees. The forest is the natural home of the honey-bee. Where the bass-wood or lynden, and sugar mayle abound at a convenient distance, no one need fail of a goold supply of a firstrate article. It will be understood that I have two of those small caps on each hire. By the help of a good veil and long gloves, I have removed 18 caps, and had all the bees out of them by 9 oclock in the morning without help, excepting a quill or wing in my hand. I hare known people to take off the cap and set it on the ground near the lisice, expecting the bees to leare it; and so they dill, but they took all the boney out first. The abore shows plainly the means I used to obtain, during the past season, from 26 swarms, 9001 hs ., and the season before jicolbs. from 20 swarms, of pure white cap honey that can't be excelled.
W. II. SIIERWOOD.

Portland, Leeds Co.,'\%. W.

## Cortespotictucf.

## Whitefish of Canada

To the libifor of Tus: Canada Fanusbr.
Stin.-For the information of II. P. II., I beg to say that whitenth are caught by means of gill nets, lurlng the whole of the summer monthn, at all points on the north shore of Lake Ontario, at distances rarying from tro to tre miles from the land.
From specimens brought in on the nets, their fool appears to be $n^{\circ}$ small matine worm about threcquarters of an Inch in length.
The sparning senson is in the month of November, at which time they more in to within a yuarter or half a mile from shore, and duposit their ova on the rock:
In idir monthe of . mpril nad May, harge quantilly of minnll whitefish. from one and a-half to three inches in length, are amulally destroyed hy seines at Toronto point. Igain in July they approach the shore, nan aro caught in immense numbers nt l'resque Isle, Toronto point, Burlington Reach, and various other places. They are then about half grown ; but whether the fish then caught are those spawned tho Norember previous, $I$ am unable to say.
Sewcastle, C.W., 14th March, 1864.
J. J. 12.

## Rossn and Thurpentine,

To the tilifor of Tus: Caxada Fiarmen.
Sir.- At this season of the year our maple fimber becomes a source of wralth to the conniry, by its proinction of sugar; and it nypears to me that out Iimnense " pinterics" might be made to ndd to the wall! of the country. too, by produciug rosin and spinits of turpentine. Rosin is worth about $\$ 20$ pur 100 lba., and spirits of tnrpentine abont $\$ 4$ per gatlon wholesale. These are prices that ongit to stimulote experiments in their prodiction.
l'ine Woods; March e, 1Sct.
Nutr: bs Ed. C. F.-A recent number of the Galt Refurner states that the Elitor had lately been shown quantity of rosin manufactured isy Mr. James Mand, who lives near Galt. Onr contemporary remarks, in reference to the sample: "It is softer than the imported kind, the turpentine not being so well extracted, but of course this would be remedied as the maker required experience. We hope the manufucture of this material will be entered into extensively, and at the present high price it will no doubt prove excecdingly remunerative."

Naw Fis~Muln-Mr. Charles Grant, of London, C. C., writes to say that be is erecting a Flax 3 inll. Califorsia Potatoes:-" M. M. ${ }^{7}$ of Braniford, wishes to know where this variety of potatoes can be got for seed.
Washisa Sumer for Eximition--"E. S." ngks, " Will some of your numerous correnpondents please inform me how to wash sheep for exhibition!"
Mow:L Pocitny Hocss.-S. S. Southworth, of Frankville, asks for a "cht" and "description" of a good hen-house." We will keep the request in view, and endearour to fullat it in a future issue.
Questios for Bex: Kexpersi-A corrcspondent asks:-"Why is it that bees will not ulways work and fill the boxes placed on top of bee-hices? We prepare every box alike, jut only half are filled."
Threaung andsaimag Macunes.-We bave reccived a communication from W. Best \& Co., Mount Hleasant, Cavan, in reference to these machines which is only suited to our adsertising columas.
Bees and Ber-Hives-We hare several enquirics as to where swarms of bees, and good bee-hires can be hal, and at what prices. l'arties having these for sale, will do well to adrertise to that effect.
Rotatios of Crops.-"Junot," of Bidaulph, and A. S. B.," of Compton, C. E., will find their zaquirics answered in an article on thls subject upoa our arst page.

Vistenes and Hors.-In order to reply in fall to enquires $r$ do by correrponilents about theso crope, we prog-an deroting na articie to cach in our next issne.
 that we do not know the $F$ ety's nduress. An adrerthement in Tin Casama tiabyer would doubtlens reach him.
 letter for publication, and apologizes for it as haring been "hurricelly throum togither." Justice to himaelf as will as his readers rould suggest more deliberate, careful preparation.
Govemsumst lensin.-A corteqpondent auggests that the nuthor of the letter on page 79 of Tuk Caxsina Fanx:a, headed "A new hone wanted," may get some caluable information by writing the Commissloner of Crown Lanils, Luebec, for a pamphlet containing an account and map of the public lumids that are for sale.
Whobst versis Coxpacterss.-.."A Subscriber" writes, "I am sorry to observe that our judges at the Provincial Fair generally look more at aceight than conguctetness in the animals they examine. Every practical farmer knows that any nnimal with a compact form will increase in weight faster than a longlegged, flat-sided one."
 says, "Always feed the cows their turnips just after milking, and you will nerer be troubled with any turnipy tast in milk, butter, or clecese." Another correspondent, ' X ." says, "cut the turnips twentyfour hours before you feed them to the cosss, and you will ind it a sure remely for the taste of turnips in bulter. se."
Tanise of Contantw.-Several correspondents hare suggested that a table of contents to each number of Tue Chanda Farxiar would be conrenient for reference. In reply we would say that a large amount of valuable space would be therelly consumed, and as we intend glving a copious index at the end of the sear, we hare thought it companalively needless to have one to each number.
Cent for Brte or a Mai Doa.-" C.-Y." of l'etawawa writes to say that he has a certain cure for the bite of a mad dog, and adds, "I wish you to try this cure for the eake of humanity." As the trial of "C. Y: 's" cure implies being previously bitten by a mad dog, we must rexpectiflly decline the experiment. We shall be glad, however, "for the sake of hamanity," to publigh the recipe, ifit be really an efficacious one.
Tensir Fix.-A corrupondent sajs, " Last season, I sowed my turnips twice on new land, and like a great many others in this neighbourhood lost them by The Fly. 1 have seen the following remedy recomreen ed:-Soak the secd in sulphur water at the rate of one ounce of sulphur to a pint of water, which will be sufficient for three pounds of seed. I should like to know the opinion of practical farmers upon the matter."
Sitcation for Dess.-"B3." asks, "Should becy be kept in a situation exposed to the full glare of the sun or in a rather shady corner or nook !"
A.s. - A rather shady place is to be preferred. See etter on Dee management in another column.
Stocima Frayes.-"J. T." enquires, "Can you inform the where I can procure Stocking Frames (for stocking and hosiery weaving) in this country ! have an iuea that there were some shown at one of the late Provincial Exhihitions."
A.ss.-We cannot furnlsh the desired informa ion, but perhaps some of our readers can.
Instimasee or Cattie.-"A. F.," of Warwick, asks "Can you inform your numerous readers if there is any Insurance Company for insuring cattle, and upon what lerms?"
Ass.-We are not aware of any Compang that insures cattle exclusively, but all Ipsurance Companies that take risks on farm bulluings and other property, insure stock, the terms bolng regulated by the character and situation of the buildings, \&c.
"A Toma Fanyen" assures us that the ngures in reference to the pronts of his flock of sheep were c. receliy staterl in ous thiri number, nnil expresecs his readineses to gire the Intalla. We think it rould be well for lime to do $\mathbf{s o}$.

Brask J. Fifing, of Girecnbank, naks. On page $3 t$ of Tus Ca:abs Fanuin, to you mean the small white lleans os the" dwarf kind: $:$ [ANs.-lies.] II procects in say. "With reapect to the llean grownin Einginnd as a field crop, 1 hare tried it again and again. One grar I got the seed lirect from Fingland, lut the crop was n failure. The stalks willed nway at the top, probucing little more than two poiss each mil those of a diminative siz.c."

Skriktos Fonma.-A curresporilent nuggeats tho proparation of siedeton forms to lue published in The (asaja Finneble, showing the particulars which roguire to be moted in making experiments with varions crops. We think the suggestion a gool one, and slall be gial to receivo fiom jim or othera $n$ draft of such forms, cmbracing the various pointer which it is desiruble to have registered for general information.
 Euphemla, wishes to kuow the price of this fertlizer, how much it takes for an acre of whent or roots, how It ahould be applled in both cases, and whether it will benefit spring as well as fall wheat.
A $\mathrm{Ns} .-\$ 50$ per ton in barrels containing about 250 llis. cach. Small quantities for experiment can be hat in boxes containing sollis., at $\$ 1.50$ por box. From two to thee hundred lbs. per acre is considered by the manufacturer a sumicient dose. Ipply in Whent by sowing biroadenst; to turnips and other green crops, by putting it in the drills. It is bene ficial to spring as well as fill wheat.
 Shisler, of Sterensville, writes:-" It being my desire to have cach rolume of The Fanxsiz hound, I wiah you to shate through its colunns whether sou will have at the close of the year all the numbers of Ture Fancer in reserve, and also what they will cost? Those I am receiving are read by some of my neighbours, and get soiled ; thereture, I sliould like to procure them fresh at the close of the year."

Ass,-It is our intention to keepa full supply of bact numbers on hand, and to preserve the stereotype plates, so as to reproduce any number that may run out. Our correspondent may, therefore, rely on being able to get thu complete volume at the years end. The price will be the same as for a year in adrance- One Dollar. If bound, the cost of binding will be additional.
" Besuwitacker Bili."- We hava at length found time to read your manuscript carefully from beginning to end; no small feat considering that it consists of fourleen closely tritten foolscap pages ! You hare certainly brought out a great many racy; cons-mon-sense ideas by which we have hecn bothamused and instructed ; but of course you never expecticd we could find room for an epistle of such prodigious length. It does not appear to admit of condensation or extract-making, eo that all we can do is to thank you for the trouble you have been at, and request ynu to send us future commnnications, brief, pithy, and pointed,-such as you are cvidently able to pró-duce,-and we shall be glad to insert them.

A Bor's Questionx-" R. J. C.," of Crumahe, sends a couple of questions, and sass, "I do not know Whether yon allow boys to ask questions."
Avs.- : artainly, we are highly pileased to have thein take aterest enough in farming matters to do so. Sore Mouth in Sheep.-Our young friend asks "What ails a fock of sheep witt-sore and swollen months?"

Ass.-If hio will send us a more particular account of the symptoms and appearands of the soreness, the way the sleep have been fed, de., we will try to solve his puzzle.

Wolf Teelh.-Our joung correspondent fuxther enquires, "Will horses thrive that have wolr teetip"
Ans, Yies, If you give them plenty to cat ; but as the woif tceth arè uselesi, and gometimes tronble--

Nor a Scasom Plocan. - Wio bave recnired a reply to the question of "G. Y.," in our last, in which the party descrilies a plough of his manufacture, which, he sags, is "n doublo plough; the first turns tho grass or stubble into the furrow, the secomd plough following in the aame track, will plough to ang deaired depth nud turn the mubsoll to the top, giving to the firli a beantiful appearance for receiring the sced." Sow, such a plough, though an excecdingly gond one for ploughing cild sod land, is not, properly speaking, a suhsoil plough. A subeoil plough atirs the subroil, hut does not throw it to the surface The impleinent described by our corresponient is n Double Michigan plough.
Gnirowar Hzat 3ook.-d correspondent asks, whether the Galloway IIerd Book for Canada liest has heen issued fom the press?"-[Ass.-We finilupon quiry that a considerable number of cattle of this breed, as also of the Deron, has been entered on the Canala Register of pure bred stock kept at tho onice of tho Doard of Agriculture in this city. A good sized volume of Shortharn pelligrees will shortly be realy for the press; but wo have no information that the Hoard have any present intention of publishing a Galloway Herd book; the number on record, we preAume, is not sumficient to call for or warrant such a step. Indecd, it is only within the last few sears that any recorded pedigrees of this breed, or of Devons acd Ilerefords, hare been published in Eingland.

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TORONTO, UPPER CANADA, APRIL, 1, 1864.

## The Anti-Canada Thistle Bill.

A yescit me ia now before our Provincial Parlinment having in view a highly needful and mose laudable object, viz: to prevent the spreading of the Cannda Thistle in Upper Canada This pernicious and troublesome weed has become so widely diffused and so leeply rooled in variour parts of our I'rovince that it may well be regarded as an evil that must bu cradi-cated,-a nuexance tha: must be abated. The most serious consequences threaten some of the most valuable agricultural sections or the country, unless something effectual be done in the direction of this proposed enactrient. It may perbaps be urged that selfinterest, without legislative interferense, will prompt the Canadian farmer to do all in his power to get rid of this weed. But as a matter of fact this incitement is not found to be potent enough. For years the mischicf has been diffusing itself and very little efrectual check has been interposed. From the nature of the plant in question, effective measurcs must, of necessity, be simultaneous. The seeds of the Canada Thistle are so light and downy that the winds readily con:cy them great distances. Nine-tenths of the farmers in a given locality may be vigilant and active in their eradication, but if their neighbour is negligent, tacy labour in vain. We have now in mind the cass of a mest enterprising and intelligent farmer who as fought this enemy with praiseworthy perseverance for years, but bis next neighhour makes no exertions whatever. When the crop of thistles is fully ripe, and the west wind blows, the dreaded seeds come over the boundary line like a miniature snow-storm, and on an eserage it takes three men a fortnight annually to destros the young plants that come from this seeding. Our lines of railway are in danger of beceming, to a large extent, seadbeds for this weed. In rarious localities, each side of the track is one dense mans of Canada Thistles. The value of farm property is beginning to be affected in some locilities by the existence of this pest, and we know of neglẹcted domains that are quite unsaleable bocause so overrun with this weed. It is manifest.that the ouly way in: which the conntry can be tided over
this rery serions dramback to lie agridultural progress, is by "a long pull, a strong puit, and a pull altogether." We cannot perceive any method by which this is to be accomplished exceplby iegistation ofsome sort, and Mr. Stirten's Bill which we give entire in another column, ecems to us not onir a more in the right direction, but calculated if properls carried ont. to go rery far torards securing the desired realis.

## Disastrous Fire and destruction of Buildings, Grain, and Stook,

Wi: greatly regret to lare to record the occurrence of a most scrious calamity by fire which has befallen Mr. George Miller, of Markham, one of ourmost enterprising stock fartners. Un Saturiley mornag, the 19th ult about day-brenk, while the family wereat breakfast, smoke was observed to be issuing from the horsestable, and in a few minutes the entire building was in flamex. The fire rapidly epread to the anljacent buillings, and the eatire pile wie quickly cona:med. Along with them, melanch is to relate, a quantity of mos' valuable slock was destroyed. Ten hores, inclacing " lifird Catcher," the lrish blood Stallion imported two years ngo ly Mr. S. Beatie, 18 heal of thorough-bred cattle, 40 pure bred sheep, 12 or 15 pigs; and n number of choice fowls perished in the flames. lkesides the animals lost. 700 lushels of oate, 505 bushels of barleg, 300 bushels of wheat, is of 20 tons of hay, two reaping machines, onet threeher, way. gona, aleighs, nul a large number of raluable implements trere consumed. The slock is indeed aserious loss not only to 3 ir. Miller, lint to whe comntry it large. It consistell almont wholly of brealing animals, and comprised some of Nr. M.is boat ppecimens. such indeced as cannot be casily replaced. The carh value of the property destroged is extimated nt $\$ 12,000$, on which there ras onty the trifling insurance: of Sl.kio. Sle underatanal the fire is atppined lu have been caused by seme of the men emoking while feeding the atock before breakfist. This calamity teaches at leart three important lessons. 1. Jlu' wisdom of ceffectiug full insurance on valuable farm property. 2. The importance of so constructing farm buiblings, as to admit of ready egress of hories anul catte in case of firc. 3. The impropricty of smokith in larns and stables. The minht perhaps add the value of presence of mind. of which we are toll there was great lack at the fire in question. Ji. Mitler hiuself has been on crutches for rome time past in consequence of an accident, and was therefore unnble to livect and aid in the extrication of his stoek, or donlttless much-more of it would have been eaved. Wo sincerely sympathize with our enterprising friend, and are glad to know that fotwithstanding his heary loss, he has still a largeamount of valuable stock ten. and ample means to replenish it. We expect he vill soon riso Phocnix-like from the ashes, in more than his former glory.

## Meeting of the Board of Agrioulture,

A neztiva of the Board of Agriculture took place at the Agricultural Hall, Toronto, on Tuesday 2 ?!th ult. Present Messrs. E. W. Thomson, Mon. G. . Hex:mder, IIon. Asa A. Burnham, Hon. D. Christie. I:. I. Denison, Dr. Richmond, Professor Buckland, and J. Sohnson, President of tbe Agricultural association. The Secretary submitted a cony of the Officin! Guzette showing that the following gentlemen haid been elected members of the lloard for the ensuing term of two years, viz.:-Hon. G. Alexander, E. W. Thomson, Esq., R. L. Denison, Esq,, and IIon. H. Ruttan. The Board then procecded to organize fer the current year, Col. Thomson Jeing re-clected President, ani the IIon. D. Christic reelected Fice-Iresident. The minutes of the previous meeting were then reaii and confirmed, and the Secretary sabinitted sereral communications and reports, after which it wos-

Resolved, -.. That assistance be given to Mr. B. Walker, of St. Thomas, in bis project of Wcturirg on
the cultivatiou nad manufacture of Flax in the different towns und villages in the Prorince, to the numount of one humdred dollars, on a statement being furnibled by bina.
That the thanks of the Board be given to Mr. Waller Riddell of Cobourg lior superior sanmples of sceds for the Museum, and io Mr. Denison of the Board, for his present of a Irrize Durham Heifer's Head, carefully prepared and stufed, also for the Mиясит.
That the Secretary bo instructed to apply to the Bureau of Agriculture in reference to an appropriation for procuring Flax Seed, and that the l'resident and Professor Buckland be appointed a Com mitte to take charge of the distribution of the seed if obtained.
That a Board be appointel to examine the pupils of the Veterinary School who shall bave attended the lectures of that Institution for four winters and two summers, and that the following gentlemen compose such Board, riz.:-Col. Thomson, Profesor Buckland, James Borell, Eeq., M.D., and Mr. A. Smith, V.S.; That when a student is found duly qualified as a veterinary surgeon, he shall receive a certificate from the Boarrl of Examiners to that effect. duly signed and sealed, which certificate shall bee considered a proper qualification to practise in Upper Canada.

## colscil of the assoclation.

The Board then proceeded to business as Council of the Agriculturai Association, the same members being present as above, with the addition of Dr. Beatty, President of the Board of Arts. Sever.al communications and reports were submithed, anongst which was the Regort of the Committee appointere to revise the Prize List for the next I'roincial Ehiobition, with the draft of prizes as propused to be amended by them. In the following points the rules and list as revised by the Committee differ from those of previous years, siz The charge for almes sion to the show, making a uniform rate of 2.5 centeach time for non mermbers luring the weck, instrath of $\mathbf{i 0}$ cents on two days as formerly : demanling proof that a brood mare has raised a foal. instewd of proof that the foal has been lost, as heretofore, a nees class for angus catte. 12 prizes; a sepurate class for Shropshire sheep. 6 prizes, medium wouled and fine-wooledsheep to be all for pure distinct breeds instrad of practically admitting cross breeds as formerly; sherp for axhibition to be fairly slorrn bare after the list of April, and a certificale to be producen to that effect; some changes in the chass on Poultry: a revised list for fruit, recommended ly: the Fruit Growers Association ; a Ploughing Match during the show week with a very liberal prize list : also some changers in detail in the Arts and Mann factures Department.

The Report of the Committee was received and considered, when the fiollowing additionsand amendiments were malle therecto. viz: The l'rince of Valu- Prize $\$ 60$, to be given for the best portable stean engine for agricultural purposes, not less than siv horse power, to be exhibited in operation on the grounds: two prizere of $\$ 60$ and $\$ 10$. for the beet assur turent not lens than sir varimies, of linen gooils, mamufac tured in Camada from Camadiangrown flax, wish sprecimen of cluth to contain not less than iwelte sards , the ploughing match to takrplace on Tuesdivy of the Show week instead of on Friday as before docided The Prize List as amemed was then adupted. In all tespects exceptas above stated, the Prize Last remans ats in former gears. The whole amount oferwh in prizes is orer $\$ 12,000$.

Ther dasposing of some routhe matters the Roard aujuinrned.
We would call the attention of Sheep breceders to the clause abopted by the Board in regard to shrar me This matter has hew the occasion of considera bir diniculty heretofores, and we understand the new rule will be strictls enforcera.

## Mr. Stirton's Bill to Prevent the Spreading of Canada Thistles in Upper Canada,

If:an Majesty, by and with the advice and consent of the Legishtive Council and Assembly of Canada, enacts as follows :-

1. It shall be the duty of every uwner. possessor. or occupant of land in Upper Canda, to cut, or canse to be cut down, all the Camala thistles growing thereon, so often in each nud every year as shall be suffcient to prevent them going to seed ; and, if any owner, possessor, or occupier of land shall knowingly suffer any Canada thistle to grow thereon, and the sced to ripen so as to cause or endanger the spread thereof, he shall, upon conviction, be liable to a fine of ten dollars for every such ofience.
2. It shall be the duty of the overseers of hiphways in any township to see that the provisions of this dict shall be carried ont within their respective highway districts. Dy cutting or causing to be cut all the Canada thistles prowing on the highways or road allowances within their respective highway districts, and they shall give notice to the owner, possessor, or occupier of any land within said district whereon Canada thistles shall be growing and in danger of going to seed, requiring him to canse the same to be cut down within tive days from the service of such notice ; and in casesuch owner, possegsor, or oecupier, shatl refuse or neglect to cut down the said Canaila thistles. within the perind aforesaid, the said overseer of highways shall enter upon the land and cause such Canada thistles to be cut down with as little damage to the growing crops as may be, and he shall not be liable to be sued in action of trespass therefor ; provided that where such Canada lhisthes are growing upon non-resident lands, it shall not be necessary to give any notice bufore proceeding to cut down the samie.
3. Each overseer of highways shall keep an accurate account of the expernee incurred by himin carrying out the provisions of the preceding section of this fet, with respect to each paree of lavd entered upon therofor and shath affir atatrment of such ex
pense. describing hy its logal di-cription the land pensed
entered upon, and verified by onin, to the owner, poseesur, or occupier of such resident hands, requiring him to pay the amount: In case such owner, possessor, or occupior of such rosident lands, shall refuse or unglect to pay the same within thirty days after such applicaton, the said claime ghall be presented to the Township council of the Township in which such "xpense was incurred, and the suid Township Council is hereby anthorized and recpuired to credit and allow sach claim. and order the same to be paid from the funds for general township purposes of the township. The sidinowerserer of highways shall also present to the naid Trownhip Comacil a similar statement of the expense incurred by him in carrying out the provisions of the sidid section upon any non-resident lands; and the said Township Council is hereby authorized and cmpowered to audit and allow the same in like manner.
4. The Mrnicipal Council of the township shall c:use all such sums as have been so paid from the township treasury ander the provisiens of this Act, to be severally levied on the lands described in the statement ithe overseers of highways, and to be collected in the same manner as other township taxes lected in the same mamner as other towasbip tares
are levied ; and the same, when collected, shall be paid into the township treasury to reimburee the outlay therefrom aforesaid.
J. Any person who shall knowingly rend any grass or oher seed among which there is any seed of the Canala thisthe whall for every suchoffence, upon conviction, le liable to a fine of ten dollars.
(i. Every overscer of highways who shall refuse or neglect to discharge the duties imposed on him by this Act, shall be liable to a fine of twenty dollars.
i Fwory uffiner against the provisions of this Act viall be punished, and the penalty hereby imposed fire warh offines thall le recovered and levied, on convirtion bufore any Justice of the P'ace; and all fin's imposens shall be paid into the treasury of the township in which such conviction takes place.
 Wr gute the summing up of the 3fark lane Express in reference to the cereal and potato crops or England for the past year A subsequent number of that paprer enntains an abstract of the remaining crops, cronsisting of beans, yeas, turaips and mangolds. Omitting the figures, we quote the editorial remarka on the gencral recults made apparent:-"It will be surn that whilst the beans and pease have proved a good crop, the turnips and mangolds show a large deficiency, and in many cases the mangolds under
the figures of "two-thirds under average" were almost a total failure. Inded, in some parts of the country the furmers have abandoned the culliration of this ront, having repentedly lost the crop, or hat it so inferior as not to pas. The turnips are not quite so defleient, but, at the same time, between the two, the loss of catte-food is sery great. The graziers, therefore, will have to resort to a much greater extent than usural, to the use of artificial food or corn. Alreaby many have been giving their cattle both wheaten and barley meal, ns well as vilcake in an increased proportion. The eacellent crop of inferios grain will, in this respect, prove a great relief, and in a measure make up for the deficiency in the root crops, which must be chiefly reserved by the flockmasters for their enes and hambs in the spring.

## Book Notices.

The: Canaman Evighant Hucsembeirir's Geme.Toronto: L.ovell. By Mrs. C. P. Traill. 150 P'ages. Seventh cultion. Price 50 cents.
This unpretending publication is it. ced a "guide," and a most useful one, not only to the class for whose benefit it was specially intended, but to every Canadian housekeeper in her city, town, or country home. To the newly-arrived emigrant, it is invaluable, answering those questions which new-comers ask so anxiously, and supplying a vast amount of needed information in small compass, and for a very tritling outlay. This book may be obtained by addressing " l'ublisher of Canadian Honsekeeper's Guide, Toronto."

Books Recenvib.-We gratefully acknowledge inaving received from Charles L. Flint, Esq., the able secretary of the Massaehusetts State Board of Agriculture, copies of the following works, of which he is either author or editor:-Manual of Agriculture; Milch Cows and Dairy Farming ; Grasses and Forage Plants; Insects injurious to Vegetation; and two volumes of Reports and Transactions of the Massachusetts Board of Agriculture. They are all valunble books, and we shall have pleasure in giving them a fuller notice at some future opportunity. We may add that these works came to us through Mr. James Bain, bookseller of this city, who always keeps a good supply of agricultural works in stock.
heromt of Hamhitox Horticcliteral Societr.-Wo 3re in receipt of the 14th Annual Report of this Society, from which we are gratified to learn that it is in a most prosperous condition. The entries at the September Exbibition were 806, being 300 more than the entrics in the Horticultural Department of the last Provincial Exhibition. It numbers two hundred and forts-three members, and its cash receipts from all sources a:nounted to over a thousand dollars, moro than hall of which was expended in premiums. The Exhibitions for 1864 will be held on the 24th of May, the 13th of July, and the 21st of September. These Socicties do much towards creating and difusing a taste for horticulture, and deserve every encouragement.

## Officors of Agricultural Societies for 1864,

> (Conlinued from page 42.)

Darlinoton Brancti Agricultifal, Societt.-Prestdent. R Bcith ; Vicc-President, u. Joness ; Treasturer and Secrelary, R. Windatt.
Cormtr Duriay Agrictititur Sociert.-Presiden' T. Tamlyn; Ist Vice-President, G. S. Shaw ; 2nd Vice-President, D. Deacon ; Trcasurcr and Secretary, R. Windat.

Coxino Falrs.-Frankford Spring Fair will bo held the first Tuesday in April. Frankford Fall Fair, the first Tucsday in October.

3 The half-jearly Agricultural Fair of Chatsworth Village, Garafraxa Road, Molland, nine miles South of Oren Sound, for the cxhibition and sale of Live Stock, Produce, Implements, \&c., will be held on Wedacsday, tho 6th April next.

## atetrinary departument.

## Distemper or Strangles in Horses.

A veiry common ailment amongst horses at this season is an affection knows as Distemper or Strangles. It is an eruptive fever peculiar to the horse and occurs chiefly in joung animals, and at the time the coatis shedding as they are then naturalty weaker. This disease is said to resemble meashes in man, and shows itself liy the formation of a hard knotty tumour between the angles of the jaws, which in time matures and bursts; this is the normal form of the complaint; but in many cases it assumes various irregular forms, und tumours will appear on varions paris of the body, as insite the thighs, or underneath the shoulder blade. At other times it forms in some of the internal organs and in these cases gencrally leads to a fatal termination. Some seasons are worse than others for causing the discase to take an irregular form as for instance in the Spring of 1863, out of about forty cases of Strangles coming under our notice, onefourth did not exhibit the usual, or so to speak, the natural symptoms of this complaint. In several of these cases the seat of the tumour was in the groin. in others on the anterior part of the shoulder and in two cases that proved futal we found, on making a post mortem examination, tumours on various parts of the mesentery. Within the past two montis we have been called upon to treat a great many cases of Distemper, and with two or three cxceptions, all of them presented the usual form of this diseas:, differing however, considerably in the length of time betwixit the forming and the healthy maturation of the abscess.
The early symptoms of Distemper vary sometshat. In many cases we find it usherea in by colds and a watery discharge from the nostril ; in other cases we observe the animal feverish and dull, appearing Weak, and unable to do his work with case, the coat looks dry and starving, the appetite is impaired, and perhaps lie coughs now and then, the circulation is quickened, the mouth hot. dry and sticky, and the mucous membrane of the nose somewhat reddened. In some cases the throat becomes verg tender, end the animal is unable to swallow, which is readily seen when he attempts to drink, large quantities of the water being returned through the nostrits. These symptoms occur to a certain extent in laryngitis or inflammation of the larynx, and at this stagt it is often dificult to decide whether it is a case of laryncitis or likely to end in distemper, until we observe the formation of a tumour betwixt the branches of the jaw-which plainly tell us the true character of this disease.
Usually the disease is slow in its progress, in other cases the sweiling enlarges quickly and is not confined to the angle of the jaw, but is spread all over the side of the head and even to the nostrils, the month, the tongue, and in some riolent cases, the whole head appears to be involved in nne mass of thmefaction. The tumour when first formed is hard but soon becomes son and fuctuating, and finally pointing : that is a healthy abscess. At other times, the tumour gratually disappears without discharge, having becomo absorbed, and this generally happens when the swelling is small.
In general the treatment of distemper is simple, and in fact it is most successfully treated by simple measures. Blooa-letting, purgatives, and irritant dressings are all of them bighly injurious, for they tend to interfere with the natural cout se of the malady, and prolonging the diserie, whi. h, like owher cruptive diseases, such as scariatina and measles in manh, cannot without danger to the patient, be arrested. Distemper is best treated by placing the animal in a comfortablo, well-ventilated looso box, clothing tho body well, and londaging the legs with flamnel, which should be removed twice a day, and the body and legs rubbed over. The animal should beallowed a liberal supply of nutritious food as bolled oats or barley, linsecd, carrota, dic. If the bowels appear constipated, injoctions of soap and water should be giren. Appls hot fomentations or poultices to the jaw to encourage the abseces to form. Poultices are better than blisters, which in many cases retard the healthy formation of the tumour. It is also useful to give small and repeated doses of diuretic medicine, Ws the kitidacys in this discaso are rather inactive. When the tumour feels sont, fuctuating and pointing,
make an incision with the lancet or knife, so as to make an incision with the lancet or knife, so as to
allow the matter to escape. Anterwards apply hot poultices over tho wound, sind nllow tho pus to come forth by gravitation. Fhen there oxists a discharge
from the nostrils $i_{v}$ should be promoted by stenming, which is commonly done by means of a nose bag and hot bran. In severe cases steaming must be used with caution, as many animals are sufiocated frou carelessness in the operation.

If there is much debility, stimulants and tonics must be lad recourse to. Give a quart of ale twice a day, or a pint of the best port wine twice or thrice a day. When recovery is taking plaçe, the sulphate of quinine in one drachm doses twice a day is exceedingly beneflilal, or some one of the compounds of Iron. When the tumefaction is great and the animal likely to be suffocated, our only chance of saving the patient is to open the windpipe and insert a tube until the swelling somewhat abates. Distemper, when neglected, or hadly treated, often gives rise to roaring,
whistling, de., and also' in some cases, to a disease Whastling, dic., and also in some cases, to a disease
called nasal gleet, which asslunes a chronic form and is very unsatisfictory to trent.

## Paring Horses ${ }^{\text {H }}$ Hoofs,

To the Elitor of Tus Canada Farmir.
Sur,-I beg leave to bring before the public a difference of opinion between the rules of W. Jones, a veturinary surgeon of London, as stated in your second number, on the subject of shoeing horses, and a very excellent writer, Mr. Blaine, in a general treatise on that noble animal.

It is to the first rule by Mr. Jones that these, remarks apply. Accepting as good and sound the four subsequent ones, he says :-
"Alter having taken off the old shoe, shorten the "toe and remove all the dead and loose parts of the - hoof. Do not cut the sole or pare the frog, except " when the foot has received an injury from a nail or 'otherwise, when it must be cut out."
Mr. Blaine, when treating of the foot of the horse, Las given a long and correct list of the causes of injurious contraction, and most of them are fortunately under the control of the oivner of the animal. He places at the bead of them neglect of paring. The hoof is continually growing, the centre is lengthening, and the sole is thickening. This is a provision for the wear and tear of the foot in an unshod state, but When the foot is protected by a shoe, and none of the horn can be worn away by coming in contact with the ground, the growth of horn continues, the hoof gets high, and the sole gets thick, and in consequence
of this, the descent of the sole and the expansion of the hecls are prevented, and contraction is the result. The smith might lessen, if not prevent, the evil by carefully thinning the sole and lowering the heels at each shoeing; but the arst of these is a considerable labour, and the second could not be done effectually without being accompanied by the first, and there-
fore thos areboth neglected. The prejudices of many owners of horses assist in increasing the evil ; they imagine that a great deal of mischief is done by cutting away the foot. Nischief may be the result of injudicious cuting when the bars are destroyed and the frog is elevated from the ground, but more evil results from the unyielding thickness of horn impairing the elastic and expansive principle of the foot.
This is not the only canse or source from which is derived serious disease of the foot. I might mention many others, but my object is not now to treat of a subject the importance of which is better suited to a professional pen, but merely to invite attention to the point at issuc.
Qucbec, 29th Feb., 1864.
TAKE GARE.

The Proner Way to Brt a Colt.-Fermers often prt a bitting harness on a colt the first thi: g they do to him, buckling up the bitting as tight as they can draw it, make him carry his head high, and then turn him out in a lot to run half a day at a time. This is one of the worst punishments that they could infict on a colt, and very injurious to a young horse head down. A horse should be well accustomed to the bit before jou put on the bitting harress, and When You first bit him You should only roin his head up to that point where be naturally holds it, let that bo high or low ; ho will learn that he cannot Inwer his hesd, and that raising it a little will loosen
the bit in his month. This will giro him the idea of raising his head to loosen the bit, and then you can draw the bit a little tighter every time jon putit on, and he will still raise his bead to loosen it By this
mieans you will get his head and neck in the position you wish him to carry it, and givo hima graceful carringe, vithout hurting him, making him angry, or causiug his month to bo soro.-Rarcy.


> Eoultry xara.

## Review of English Poultry for 1863.

We extract the following from the Collage Gardener. the organ of the English poultry keepers. "Our review of the different classes will be a laudatory one. Mang have improved greatly. The least favoured have beld their own as compared with hast jear. Certain breeds would appear always to be in favour, like some useful colours in dress, as black, some shades of brown, and slate; while others reign for a time and then suffer eclipse, like mauve, magenta, cuir, \&c. Dorkings are always looking up. They increase in size, entries, and popularity. They contribute more than any other breed to the amounts at the sale office. They are, more than any others an epitome of poultry shows. The bird that won easily ten years aso, and was unquestionably roupy at the end of two days, has disappeared to make room for the hardier, handsomer, and heavier bird that now wins with difficulty.
Some breceds are intimately associated with names, and when their support is withdrawn the classes suffer. Spanish first lerant on Captain Horyby. They attained their apogee at the hands of Mr. Davis ; they maintained it with Mr. lake, but since be las given up theq have not been so popular. We look for their revimal.
The good old Cochins "keep on the even tenor of their way." Through good and bad repute they hare held their own, and good birds make good prices. They are still favourites, and they deserve to be so. The Phiff and the Partridge are decidedly better than the White.
Imama lootras are established, amd maintain their right as a distinct and very valuable brecd. They fill good classes and are attractive. Our own opinion remains unchanged-they are among the bust owls ever introduced.
Malays were never bettet than they are now; but their entries harily justify the amount given to them in aprize list.
We have been exens where disappointed in the entries of Creve Cours. There is no llonbt they are a valuable importation; lut the Various class must be their home until they cin show in greater numbers.
Among the Pencilled Ilamburghs the Golden are far in advance of the Silver. The latter want the care and knowledge of Mr. Archer. The Spangled have been very good, and the Black a great succers at Birmingham.
All the Polamis have exhibited jeens of malemiable merit during the year. Mr. Allins' Silvers are, perfect, Mrs. lettat's Golden, and Mr. Edvards: Black deserve the same praise; but they are not suficiently numerous.
It is only necersary to say of the Game that they are perfect.
Bantam's are still favourites, especially the Game Their numbers throw the Selrights into the shate. All that can be said of Aylesbury Ducks is, they have held theirown. The ycarshows no progress. Louens have beaten then in numbers, and they tread on their hecls in weight. The Black Ducks have throughout the year been bumerous, cxcellent, and attractive.
The average of Geese and Turkeys has been al olli the same as former years; but individual jens lare not beca so heary as ihey are sometimes. We have far more pleasuro in chronicling a large average than a few yery heavy exceptions.
Poultry shows remained popular through the yenr. Some die annually, some start afresh. sad others spring from the ashes of their predecersors; but it is become a pursuit Poultry sales hare much increased all orer the kingdom. There is evergwhere a se: eally and good demand for nverage ponltry. On wo points we are stationary, the quality of the poultiy at country markets has moreased. but he quaniuy :s ethll small-not sufticient for the demand in many phaces.

Sex in Grene. - The goose is heavier hehind a: nearer to the ground. than the gander. There is an-w. a difference in roice, which may be fusted by slumbus them up apart. where they can hear withont seem: each other.-The Ficle.

## Duoks．

Dees possess many excollent qualities，such ns justly eatitle them to a place of high disthe－ tion among the tenants of the ponltry－yard．They are quiet mat harmiess in disposition，so hardy as to require but little of that cate withot which fomls droop and perinh，white they will subsist ha－ on almost any sort af food，eud are exeellent scavengers．dieghos－ ing of all offal amil waste in a most smmmary mamer， 1 fence of or－ thary heoght eomines theon by das，and an open shed wall the shelter they ask it night．Their fesh is dencrvedly estecmed for the table and a given numiner of their eggs，is equal in cuhamery rahe，to trice the number of hen＇s engs．

m．
Satmative comat nearly a bun－ thed species of the duek gemes scattered over ath parta of the word，but there is not a great viriety in oun domestic dums The following siv kimis comprisu all fiat ponlfry－kevers in gem－ exal regard as worthy af attention． The Common，the Muscory，the dykeshury．the lomen，the＇rest－ rib．and the Bucmos－Ayrean duek． The fro last mentioned marienies are chielly valued as ormamental hirik．one somh ahoust as seon think of cooking a prold fith for hesakfant an of dooniug one of them to the spit．The comunon dack is wedl enonght known to Het to dhacription，and we pro－ eral to give illustrations of the remaining thee kimas just maned．

We begin with what is usually known as the Muscory duck，shangh its more correct mane is the Musk，or Brazilian duck．It has liy com stramge means cone to be called after a country which certainly never wimessel its exist－ ence in a wild state，it being only fonnd widl in Somb diarrica．It is called the Musk duck from the sup－ position that its plumage cmitted the outour of mask． This species is of varions colours，commonly vari－ gated with bhack predom． inant．The mals attuins a much larger site than the female．The drate liss on the chereks carmbeles as rime as those of the turkey． Thes have a strange arer－ sion to the water．sodiom groing mar it＂yerpt to drink．If thrown into a stream，they will seramble ont ugain as ryickly as pusibll．They hay about the same number of exgs as common ducks，and are predsathe to thataty for

 sid roble powers of thight；but her mate＇s heavier batk is mafarourable to his accompanying ber upon arral excursions．Contrary to the usual habits of this gems．the top of a wall or the branches of a low tree are favourite resting places．Their feet ame somewhat more adapied to chah wess than thuse of oher dneks．If allowed to spend the night in the hen－ honse，the fumale will gen emally go to roost beside the fovls，but the drake is two beay and clamey to adait of his duing so with ease．
Travellers assert that these birds，in their widd state．perch on large trees that border rivers and mar－ shes，that they build their nests there，and when the dackliugs are hatehed，the mother takes them one by ove and droys them into the water．

Our second illustration is of the tybebury duck a mach－steremed varicty wherwer it has been teated．Its phomage is snowy white．amit wonh be very valmable for the pure white dawn with which it is thickly covered． if it had no other good qualities．But it is a gond layer，and a large and exeellent table bird．It is thourgh by many brecders that the Aylesharys con＊ sume less food than the com－ mon duck．They are very quiet in their hatits，and do not keep up the constant ＂quack，quack，quack＇！of the bird just mentioned． The dincks represented in ons che were drawn by out artist from like，and ure por－ traits of birels in the pos－ ression of a gantluman who resides nuar thine city The －pecimens dramn averaged ullss．earh，and were in ho．ordinary comblition in which they have been kept ．II wiater．Hed for a mates

yaths．the trio，the weight of the first－prize Aylesburys at the late poultry show in Birmingham，Eugland，said

KOUEN，OR RHONE DUCKS．

The great iventy of this bred consists in its snow－ white plumage，－the deli－ cate nesh－coloured bill is also much admired．There should be no stain or ble－ mish，－wno yellow tingo any＊ where on the body of the bird，sunt the bill should be of pure roso－colour， without spots of black or yellow．The Aylesiburys are early layers，－hence their anchliage are always first in the market．The cggs are white and of ex－ cellent Anvour．
Buckinghamshiro，in Eng． land，has long been cele－ brated for the great num－ bers of this breed，which are reared there，many of them by the peasantry．
 ysefel and hardy varincies，somewhe harger than the ．iglesburys．nut very

tribes－anaily fattened and of good layour．Their usually dark plumage is rich，and verg pearly resembles that of the original wild duck．A well－ bred loum drake is a very fine looking bird．


## Dwarf Fear Trees.

As exteened correspondeat resiling in the comnty nf Muron inquires, "Whedher is it ante proltable for a firmer to plant dwarf or standurd pears?" The answer to this question camot be positive ; circumstances will so modify the aspect of the guestion that what will be true under certain conditions woald not holl good under a different state of things; and as this is a question of such general interest, in some degree athocting all who are planting pear trees, we shall devote a littlo space to its consideration.
There is an erroneons idea very commonly entertained by parties not as well informed upon the cul ture of pear trees as is B. R.S., which must be cor rected at the ontset. It is that the Dwarf Pear is a particular kind of pear, differing from ath others, bat swall in tree and fruit, concerning the qualities of which wery vague and often contradictory opinions preval. Now, a Dwarf Pear iree is not a particular kind of pear. Any rariety of pear may be made to become a Drarf Pear tree. The pear is mado to grow as a dwart tree by buduing or gratting the pear apon a Quince stock. The Quince does not becoma alarge tree, nad the pear scion by being grafted upon a Quince stock is thereby made to partake in some measure of the babit of growth of the Quince. The result is a tree of less size than the mathal pear treo, and to distiaguish it from one growing on a Pear ${ }^{3}$ che, it is called, from its diminished size, a Dwarf. The size of the tree being diminished, it consequently atioias its full growth in less time than a standard or one grown on a pear stock; from which it follows that it soon comes into bearing. It will ho seen from this explamation that any kind ofpear may be dwarfed at the will of the cultivator, siaply by taking a graft of the kind he desires to drarf, and inserting it in a Quineestock. Theoretically, thisis true, but some dif heulty is found in peactice, arising frora the faet that some rarieties of the Pear refuse to thrive when workel on the Quince. This didienty is partially overcome hy first grating upon the Quince stock a varienj of the Pear that is knowa to thrive well on the Quince, and afer this is established, then grath upon this the olher rariely that will not grow when worked directly upon the Quince. This is known as double working, and is practiced when for some reason it is especially desirable to dwarf the unwilling variety.
With this explamation of the true character of the IWrary Pear tree, the consideration of the question asked by our correspondeat can be entered upon maderstandingly. In the different sections of the Yroviace, involving diference of temperature, of soil nad of exposare, it is found that certain pariecies of the I'ear itrive better in one locality than in another; consequeatly that the farmer, intending to plant, has first to make selection of those carietics that will thrivo best on his farm. If, then, these rarietles are such as will not thrive woll when grafted on the Quince, it follows that he shoud plant standards; but if they sre those that grow vigorously on the Quince, and are improred bolh in the size and flarour of fruil by dwarting, as is the case with the Duchess d'Angoulenc, Louise Bonno do Jersoy, and some others, then it would be more proftable for him to plant dwarfs. Again, the object which one has in view has somelhing to do in framing the ansmer to this inquiry. If it is desired to makor largo collectivn of diferent sotts from which to obtain specimens of fruit ns soon as possible, the drarf treo will usually be found preferable. In shori, whererer
(emomy of time or of ghoull (for bwar lear tress can be phated ten faet ghart each way) are rey importint objects, it will be more proflablo to phat the dwarf tre. If the object in planting be to grow pears for martel, then the whole question furns upon the vainins fo be phamed. If they are sarieties that are improved in site and theore of frut hyd warthes and at the sume time vigorous and henthy when grafted on the Quinee, it will eertainly he more prodtable to plantawarf trees; but if the varieties are those which do not thrive well on the Quince stock, as the Barthet, Shohton, and some others, then it will be nore proftable to plant standards.
There is mother point from which some, wo know, vien this gucstion, but it is ono of which every farmer ought to be ashamed. They who take that view of the sulgeet belong to the class of ship-whod cultivators whose farm-yard is the highway, whose cattle thed is the lee side of a sail frnce, mon who, if they phat a tree, set it as they wonld a rence post. With them the question really is, "Wheh kind of pear tree, dwarf or standard, can I phant in hand which has had no preparation, and which will have no proper cultivation afterwards, and leave the trees to take care of theuselves, with the most profity It is not the province of The Camad Eamen to dibeuss such a question. Hoth dwarf and standard pear rees, of varicties suited to the soil and elimate, will amply repay good cintivation bothwit punish their owner for neglect. Hithout proper wate, neither wall be proftable; if there be any difference, the dyarf tree will show proper resentment soonest, as it also responds mure promply to gescruas treatment.
The resulf, then, sems to be this, that it is more profitable to the geneml planter to use both drarf and standard pear trecs, phanting as duarfs those varietios that are known to bo preferable when worked on the Quince stock, as standard those which do not thrive well on the Quince, and those that are equally desirable on I'tar or Qaince, to plant dsaris or standards according to circuastances.

## Grape Vine Culture.

mamting, phesise, and thanivg.
Tur plants should be strong, healthy, well ripened, and not less than two years old. They shond be set in rows, from east to west, six or cight feet apart from row to row, and the plants from iwo to three feet apart in the row. Allow no other crops to occupy the ground, and cultivate thonoughly to keep down weeds.
Before planting, ext down the stem to two or three eyes. When the vines lireak, select the strongest, giviag the preference to the one nearest the gromad. Pinch of the others.
Plant in a slauting alirection, abont four inches under the surface, elose up to the young wood of last years growth. Set each to a stake, say four or fre reet high. When the wine reaches the top of the stake, pinch in and stopall laterals back to one point, contianiag so up to midde of August. If the plant grows very luxuriantly, the latemls may be allowed to cxicnd to two joints, leaving one new leaf on each joint each time. After midale of August, it may bo allowed to grow withont further care. When the leaves fall, cut down every other cane, or every other row of canes, as may be delermined upon, to wilhin two cyes of the ground. Cut back the canes inteaded to be fruited next year to the top of tho stake or trellis, and cut of all the laterals to within an inch of the min stem.
For trellis or vinegards, wo recommend cedar posts of good size, six feet ligh, ten or trelve fect apart, will wires runlengthwise the ronts, six or eightinches apart. No. 12 wire will be saficient.
I: is fery usefal to lay duma eren the wery hardiest Fincs in the fall, nad cover with an inch or so of soil, according to the plan pursued with raspherry vines. Mulch with manare or compost.
promave.
In the spring. Then tho budg logio to staxt on the fruit trees, wicover tha fruiting contes. Sling them
horizomtally on the lowest wire till the shoots have mado a growit of two inches, then tie up perpendiculat. When the frait buds begin to torn-there being generally two together,-select the gtrongest beick generally tro together,-senect and stop the latern, or branch pricking of the other and stop the lateral, or branch twa joints from the bunch. stop atl other laterals,
lenving one new leaf every time till the fruit takes its second swelling; then allow the foliage to grow wihhout further check.
Vines may also be rrown in this way, tiel tostakes or upon arhours, nad be allowed to extend 16 or 18 feel, so as to cover the whole with foliage, wilh nearly as good results.
sonts of ranis.
The sorts of yines we wouh recommend planting are very limitel. Cet the best two year old and wed ripened. Plant carefully. If zell done, it matiers bat hitle wheder the phanting be dune in the spring or the fall.
tsabelen.
This is more genorally kaown than any other varicty. Colour purplish black, covered with bhe bloon. Flesh tenderand srrect. The vines are hardy and productive. Ripens from 1st to 15 th Oct.
catamba,
The celebrated wine grape of the Wextern States. Large bunches somewhat loose berries. When ripe, deep purplish rea, fesh juicy and areet. Matures from listh to 20 h Oct., 10 dayslater than the lsabella.
cartos.
This is a vigorous, exceedingly hardy, nnd productire variety. Bunclues medium size, very compact, berries small to medium ; colour blach, flegh rather acid, with an exceedingly brigk and sprightly favour. Ripens midde toend ofseptember-tivo wedis earlier than the Isabella.
dejawabe.
This is exceedingly hardy, early, and very productive: perlaps the very best of all the hardy American varielies. It is very delicate, $3 w e e t$, sprightly, and of high vinoms favour. It has been known to stand the severest Northern winters, beside which the Isubella and Catawba were hilled out. Ripe fully three weeks carlicr than the Isabella.

## coscorn.

Bunches and berries very large, almost black, bickly covered rith beautiful bloom; very hardy, second only to Delaware, and excecdiagly vigorous and prodactive. Jluch less liable to milders than cither the Isabella or the Catarba. Stmilarin quality to the lsabella, but ripens two weeks"earlier.

## masa.

Buaches large, berries similar io the Catamba, reddish colour. The fruit is rery fine, rich, juley, viaous, and aromatic, second only to Elaware. Xlore slgorous than either the Isabella or, Catarbi, and ripens a week or ten days earlies.

## zantrond molific.

Bunches large and compact, berries large round, shin thick and black, very juicy and sweet; an ex: ceedingly hardy and productivevariety. Ripens two weoks betore the Isabella. A very valualle sariety for Comada.

## merneyont.

Bunches very large and compact, berries large round, vialet blue, feshassect, aprightly andaromatic. it is of great rigour, excelliag any other native rafiety in this respect. Rather tender in Canada, and requires good protection is winter. Ripens end of Scptember.
chion mhinge.
Munches and berries very large. An unusually rapid grower, but sormembat tender, and requires good winter protection.
mebecca.
A pale green grape. Bunches compact, medium size ; the besh juicy, sweet, and deliciona. Grows freely, bat rather slender. Ripens ten days carller than the lsabella
A few obscrrations on grape culture in general, and select varieties for culture wailer glass, must form the sabject of anotherarticle. We hare alrcady more than cxhansted the space we intended to occupy.
Woburn.
W. S.

A Hot Bed ns tus Fricuen--A peck measuro, in old box or carthen pot, may be alled with propersoil and tomatocs, lettuce, radishes, cabbages and other cdibles, started anccessfully withont the cost of anything but a litile pleasant care; and the pleasure of secing them burstiato lifo and grow, fill repay all this, to say nothing of the fua of eatiog them. Fill tho women see that this in docio?

## Hardy Ornamental Shrubs.

To the Elitor of Tin: Casima Famam.
sir,-As the semson for planting is fast approaching. perhaps the following remarks will not prove unaceaptable to your many readers. Many of the shrubs sent ont by the murserymen are entirely too tender for the climate of Canada, but being easy of propagation, they are put forward as being all that is desirable.

The following list consists of really ureful articles, all of which may be depended upon for ormamentation, wither in the alurubbery, the horder, or the lawn:-
Wiegelia Rosea.-This is a native of Japan, and is one of the handsotestand hardiest shrubs knowna free, vigorous grower, and verg nut in its sigle. The tlowers vary from whitish to dark pink, and are very freely produced. When in full blossom, it is a
striking and beautiful object. Should be planted striking and
universally.

Pyrus Japonica.-Japan Quince. another Japanese. but totally different in every respect to the preceding one, being a low prostrate grower : but, withal, stout and very hardy. The rood is furnished with long thorns, and were it not difficult to propagate it, would make a good hedge plant where height was not desirable. Its bright scarlet flowers are produced early sirable. ts
in spring, and are sure to attract attention. Should
be much more widely planted than it now is. No be much more widely planted than it
garden or lawn is complete without one.
Deutsia Scubra.-Rough-leared Deutzia,-a fine erect growing and rery useful shrub, not half as well known as it should be. It produces numerous spikes or racemes of white flowers, nearly resembling orange blossoms, and ought to be a farourite.
Spiraza Lanceolata.-Lance-leaved Spircea, a most charming and graceful shrub, and one that should be in every garden. It is hardy and rigorous, altho a slender grower; in its outline, clegent and airy, a sud a striking contrast in habit and growth to the ont above mentioncd. It produces ar profusion of one above mentionern in panicles, early in the season. and whereser known is always a favourite. There is a double variety of this species- Spiraza Lanceolata, ai. pl.-w ich deserves special altention for its great ieauty and the profusion of its flowers.
Spircea Colossa.-Another beautiful Chinese shrub. introduced by Mr. Fortune, and one of the mose charming of this extensive genus. It is perfectly harily, and gowers later in the season than any of those preciously mentioned. The blossoras are borne in large corymbe, and are of a dark rose colour; altogetber, a very showy and desirable plant. It has become a great farourite in England, and is considered by some the handsumest of all shrubs. Should hidered by some the hand collection.
Spirata Sorbifolia.-Menntain Ash-leaved SpireaVery distinct from either of the two last abovermentioned, although belonging tu the same genus, its white, feathery inforescence being very graceful, although the plant itself has a somewhat uncouth
hatitit of growith. Its principal fault is the tendency lahit of growth. Its principal fauit is the tendency
it has to throw up suckers: nevertheloss, boing a it has to throw up suckers: newertheloss, boeng
hards, useful plant, it should not be neglected.
I do not mean to say that the above list comprises all the bardy shrubs we now possess, but it will be found to contain the cream of the collection, and all the varieties mentioncd mas be relied upon, looth for hardine:s, beanty and utility. If it woild prove acceptable to yutr readers, l shall be ptad 10 give a
short list of some of the half-hardy or tender sorts, short list of some of the half lardy or tender sorts.
and which. if care be taken of them. are very usefnl and ornamental.
H.T. G.

## Planting Apple Trees,

To lhe Eititor of The: Casada Faimer.
Sin,-In perusing your second number I see new ldeas on planting apple trecs, to which it would be well to draw the attention of the public. It is wise to guard against planting too deep which is ruinous sooner or later to the tree. Shallow planting to the incxperienced wonld be a dangerous operation, dependirg on a small mound of loose cartb around the tree. It is well known that the frost and winds hare sonue action on a newly planted tree, which if not guarded against would have a tendency to lift them hefore they became established. Hy digging a lole large enough to take he roots in withom crowd
ing, placiog the tree an inch or tro lower than it was ing, placing the tree an inch or two lower than thas is filled up quite rounding to allow for its sething,
and with at slight mulching of some litter, you maty expect the trees to stand the droughts of Camala.
Ilanting only cighteen feet apart may look very well at the end of tive years, hut where will they be in ten years if they grow as they should grow with horizontal brauches and.only rine feet space each way? IIow is the atmosphere to have an influence on the soil so densely shaded as it must be. It is well known that apple trees will not fourish in this climate with the branches entangled one with another, and to tike a natural course they will in treenty years have t e appearance of a natural forest with dead side branches, and their only fruit or foliage on the top, being the only branches exposed to the sun. Shelter is very important, but to plant apple trees for shelter and to go in with the axe when they become too thick, it would make it a difficult matter to decide which should be the victims, after bearing theirgole in fruit for many years. A forest tree in open ground, the beech or butternut for instance, will bear four times as much as it will in close woodland. The largest apple trees that I have seen were growing where they had plenty of space to stretch out their branches and form a round top, which gives the greatest surface possible. I have measured apple trees with trunks six and seven feet in circumference, but to attain this size it is not expected to get three bushels per tree five years from planting. It would be better to let a tree have its own natural time to come into bearing, some sooner and some later. Early bearing kinds do not attain such large size as those that form a top before they commence bearing. Before planting am orchard it wonld be well to weigh these mitters, when once planted it is done for a lifetime, and not easy to be altered or improved.

Cobourg.
B. L .

Note by Ed. Casada Farmer,-Will our correspondent please explain why be would plant the tree deeper than it stood in the nursery?

## Queries about Grape Culture.

To the Falitor of The Canaba Fabielt.
Sil:, Having read an interesting article in the last number of Tise Fanyer on the "culture of the grape rine," by W.S. of Woburn, I would esteem it a favour to be informed by your correspondent, through the same medium, of a few particulars regarding his " single short-cane principle:"-
lst.-What distance apart should the rines be planted, so as to have no waste space on the trellis or walls, and yet sufficient?
2nd.-To about what length should the " short cane" be pruned?

3rd.-What length should the "rery short lateral branches" be left, or how many buds or bunches of fruit should be allowed to each?

4th. What five or six rarieties wouk he recommend as the earliest and best for open-air culture in this country, taking into consideration the fact that many parts of Western Canada are not as favourable for the ripening of the fruit as that of Voburn?
Lindsay, 24th March, 1864.
J. K.

Note: ur Elo. C. F.-Our correspondent will find these questions answered in the communication by - W. S." headed "Grape Vine Culture," in the present number.

Tus: Way they Mare: Mut-Bens is Gerxany.Take white cotton cloth ul a close texture, stretch and nail it on frames of any size you wish; take 2 oz lime water, $\ddagger \mathrm{oz}$. linsced oil, 1 oz . white of Cggs, 2 oz . Folk of eggs; mix the oil and lime with rery gentle heat, beat the eggs well separate, mix them with the former: spread the mixture with a paint-brush over the surface of the cotton, allowing each coat to dry before another is pus on, until they become waterproof. The following are advantages this shade pos sesses over the glass one: First-The cost is haruly one-fourth. Second-Repairs are casily made. Third -they are light; they do not require watering, no matter bow intense the heat of the sun. The plints are nol struck down or burat, faded, or ch cked in growth; neither do they grow up so long, sickly and weakly as they do nnder glass; and yet there is abundance of light. Fourth-The heat arising entirely from below is more equable and temperate, which is a great object. The rapour arising from manure and earth is condensed by the conl air passing over the shade. and stands in drops on the inside ; and therefore the plants do not require as frequent watering.
If the frames are large, they bould be intersected by If the frames are large, they should be intersected by These articies are just the thing for bringing forward geeds in scason for transplanting.--Scientific American


## 

## Ohildren's Feet.

Lare long discomfort, disease, and death ofteu come to children through the inattention, or carelessness of the parenta. A child should never be allowed to go to sleep with cold feet; the thing to be last attended to, in putting a child to bed, should be to see that the feet are iry and warm; neglect of this has often resulted in a dangerous attack of croup, diptheria, or futal sore throat.
Always, on coming from school, on entering the house from a visit or errand in rainy, muddy, or thaving weather, the child's shocs should be remored, and the mothershould herselfascertain if the stocking: are the least damp, and if so, should require them to be taken off, the feet held before the fre and rubbed with the haud until perfectly dry, and another pair of stockings be put on and another pair of shoes, while the other stockings and shoes should be placed where they can be well dried, so as to be ready for future use at a moment's notice.
There are children not ten years of age suffering with corns from their too close-fitting shoes, by the parent having been templed to "take" them because a few cents were deducted from the price, while the child's foot is constantly growing. A shoe large enough with thin stockings is too small on the approach of cold weather and thicker hose, but the consideration that they are only half roorn is sufficien sometimes to require them to bo worn, with the result of a corn, which is to be more or less of a trouble for finy years, perhaps; and all this to save the price of a pair of Lalf-worn shoes! No child should be atted with shoes without putting on two pairs of thick woolen stockings, and the shoes should 50 on moderately easy even over these. Have broad heels, and less than half an inch in thickness.
Tight shoce inevitably arrest the circulation of the blood and nervous influences through the feet, and directly tend to cause cold feet; and health with habitually cold fect is an impossibility.-Dr. LIall's Journal of Ifeallh.

Bracking yon Stovzs.- Mix the lustre with the white of an egg; hare your stove cold, apply with a brush, rub till perfectly dry, and you will have a lustre nearly equal to that of a new store.

Frosted Fret.-Raw cotton and castor oil are said to be an infallible remedy for frozen limbs, and to have effectged a cure when ampntation was thought to be necessary to save life.

To Destroy Bed Buos.-These troublesome creatures can be effectually removed by occasionally applying a small quantity of turpentine, by means of a feather, to all parts of the bedstcad usially infested ly them.

Usercr. Mints.-Never enter a sick room in a giale of perspiration, as the moment you becone cool your pores absorb. Do nut approach contagious discases with an empty stomach; nor sit between the sick and the fire, becauce the heat attracts the thin vapour.
A Novel Cure.-It is said a poultice of onions, tobacco and salt, mixed in equal parts. bound tightly upon the part anficted, is effectual in curing the bito of a rattlesnake or mad dog. It is worth remember ing, as it may do good, and cannot do tarm.
Domestic Sweatufata.- It is a singular fact that many ladies, who know how to pregerve everything else can't preservo their tempers. Fet it may casily be done on the self-sealing principle. It is only 10 "keep the mouth of the vessel tightly closed !"
Quice Astidotzs.- If any poison is swallowed, drink instantly half a glass of cool water with a heaping teaspoonful cach of common salt and ground mustard stirned into it; this vomits as soon as it reaches the stomach, but for fear somu of the poison may still remain, swalluw the white of one or two ruw eggs, or drink a cup of strong coffec, theso two being antidotes for a greater number of poisous than any other article known, with the aurantage their being always at hand, if not, a half pint of sweet oil, or "drippings," or melted butter or lard, are good substitutes, especially if thes vomil quicily

## ghtisthimurons．

## Riddle．

## 

Wiat＇s that whict，ofenset at nought， Would grace tho mightiest monarch＇y hand，
For wounding jurpores＇tis wrought， The alliad to the butte branis．

Though on if whunte，it slieds no blood， It weallyy makes，but never jomer， Nighty，It has the eartis sumiued， And blesings shet the whe world oier．
Toft vast cinpires owe their dawn， The oldest cities it has reared，
Iet ne＇er through it has swonl been trawn． Or dread been felt when it apmeareal

The friend of every land and realm， Of all that live，the prop and stay；
＇Tis well when at a natlon＇s helm
Aro thase who help it on its way．
Jisms，C．F．
(Anster in our ivexl)

Ehater Fat Cattle Fair at Gueiph．－This fair， according to the notice given last week，was held on Wedneaday，and considering it was the first of the kind held in the place，and the short notice that was given of it，pe may call it very successful．
There were six entries in the class for best fatted ox four years old and upwards．The first prize was awarded to James Wright，the second to John Hewer．
For the best fatted cow，four years and upwards， there were also six entries．In this class Samuel Ifodgskin was awarded the first prize；2nd，George Wright．For the best fatted steer under four years there were 11 entries．First prize，John O＇Rourke， the cattle having been fed at Woodstock；2nd， Samuel Hodgskin．For the best fatted heifer under four years there were four entries．First prize，W．d G．Swanston ；2nd，Gideon IJood．The judges were Messrs．John Duncan，Elora；Fiead and Oliver，Galt．
Tho cattle entered for competition－27 in all－ were splendid animals，equal to anything ever shewn in Guelph．Mr．Hodgskin＇s cow excelled anything on the ground，and the owner may safely challenge he Province to produce ber like．Without making uny invidious distinctions，we may say that many others were only behind her in gize，and fully her qual in other respects．The show was alibe credits－ ble to the district and to the owners．－Guelph Irer－ cury．
Phrrnologikat．Farackrer of Mr．F．Baraiard，Esq．
Given at the otho ef Proff．Josh Billings，prakitikal
phrenologis，price $\$ 1$ ．
Amativeness－Bigg．Stiks out like a hornet＇s nest． You ought tew be able ter luy the hole human fam ileo with jure bump at onst．Yu will never be a ilee with jure bump at
widderer long，not enny．
Politiks－Yu have got tho natral ma．A splendid bump．It feels like a dimolratik bump，too．Menny a man bas got to be constable with half yure bump．

Kombatifness－－Sleightually，very much．Iu mite fite a woman，but tuff match．I shud like to bet on the woman．This bump wants poultising．

Villes－Bi thunder what a bump！I shud think ye cud eat a hoss and cart，and chase the driver three miles，without any praktis．Thunder and Lightning what a bump！what a bump！Let Barnum get his hand on this bump and joure fortin iz made．What a bump！
Afusik－A sweet，pretty bump．About the size of a lima bean．If I bad this bump，I would buy me a juise harp，and wander among the rocky mountains Pon my word，Mr．Barnard，mi advice is，nuss this oump．
Greenbacks－Well doreloped．A gorgcous bump．A ortin tew enny man．Iu kant help but die ritch，is this bump dont 80 bak on yu．Gorgcous bump！ happee man？die when you feel like it，deth wont havo enny sorrows for your relashuns that this bump wont heel．

## 相－Soxe hearts，like primroses，open most beauti－

 fully in the shadors of llfe．Fe－A Western New York sarmer lately wrote as ollows to a distinguished scientific agriculturist，to whom be felt himself under peculiar obligatio：s for atroducing a Fariety of swinc：－＂Resprected Sir，－ I went yesterdey to the fair at M－－If Ifound sereral pigs of your species．There was a great variety of beasts，and I was astonished at not seeling yournelf there．＂

## gaturarts．

## Toronto Marketn．

＂Casada Farmer＂OAlce，April $1,1804$.
Siver last Wedneslay the market has been extremely dull，and tuonco lase nect Tice Dews from Eurono gives no nopes of any inerese in the jrico of brmelstumfs in tho Spring．
In the duerican marbels tive stock bas risen In price beyond the means of very many of tho Inhabitants in the larger citics A large guniber of catle liavo bown sent from Canala to New York，where The demand is gowe，but the trouble and expense attendlige the ne－ gutlations，and tho depreciated currency in wblch dealers aro mild， for cattle in Now York（see report of mariket elsewhere）Ecems large， but it must be remetnbered that a Unlted States pajer dollar is only horth about ol cents in guld of Canada money．The market here Is culti．
Graln and butter are quoted in the American markets at mucis higher tigures than can bo ralizod here，but tho same objection lork at 53 s per the，but that ls only $3^{\prime}$ in our money．
Ffour－Superfine at $\$ 3$ C0 for shfpment per barrel ；$\$ 75$ to $\$ 385$ for home conkumptich ；Extra $\$ 4$ to to $\$ 450$ ；Fancy inom－ inal）ist 10 to $\$ 420$ ，Superior（uono in markel）$\$ 4$ ； 75 to $\$ 510$ ； Bas rlour \＄t 00 per 2001 lu x
 9sc for goot to cholce；$\$ 100$ to $\$ 1$ 0i for Extro，the latier only ald in a sery fow cosent
occaslonally a load of extra bring at sse to 80 c and 82 c per bushel Barley at foc to Soc，and in one or to 84c．
bushel．
Oats in good supply nt 8sc to 40 c per bushel，for common to good， ec to ste ror good to cxira
Peas 45 c to 50 fer buxthel for common to soon，52c to wec for good to extra
Hay $\$ 800$ to $\$ 900$ per ton
Ilides（greed）at 4 ：f to 5c per th，the latterprice for extra； trimmed sc to $6 c$ per 10 ．
Calfikins at 8c to do per la
Sherp－shins at $\$ 105$ to $\$ 175$ ；the latter for oxtra
lamberking at $\$ 125$ to $\$ 270$ ；the latter for extra
Woal $\$ 7 \mathbf{7}$ to $\$ 9$ per ton．
Protisions－Halns ge to 10 c per lb．Wholesale．Flitch Racon ． 3 ic to 8c per Ib．Cheese，wholesalc， 10 c to lic perith；retall， Wye to 150 per ib．
Becf－Inferior $\$ 5$ to $\$ 6$ per cwt．；extra，$\$ 500$ to $\$ 050$ por cwt． rbolesale； 5 c to 8 c perito．for ordinary； 00 to 10 c for superior， cetall．
Colres searco at $\$ \$$ to $\$ 0 \mathrm{cach}$
Shecp at $\$ 5$ to $\$ 6$ each，acoording to size and quillty．
Cumbs $\$ 2$ to $\$ 260$ cach． per io．Tub buhter，dalry pacica，zoc to zze according to qually， wholesale；retall， 24 c 2025 c
Eggs－11c to 121；icper dozen，wholesele；retail 1sc to 14 g ger doz
Sall－$\$ 1$ tim to \＄2 per karrel．
Treatoes－25c io 40 C per boshet，vinolessio；45c to 60 c per ushel，retall．
Apples－Common to good，$\$ 100$ to $\$ 225$ perbarrel ；extra $\$ 250$ cer barrcl．
Coal Oit－29c to 30c for Canada ； 40 c to 60 c for Pennsyltania．
 at 75c to 78c．Barley，80c to 85c．Oats，at 30c to 38c．Prease at
45 c to 80 c ．Corn，Sisc to s6c．HIay，$\$ 720 \$ 9$ per ton Pork，$\$ 660$ o $\$ 575$ ．Deer $\$ 3$ to $\$ \$ 50$ ，Oat Strawo，per load，$\$ 2$ to $\$ 3$ Due．


 eotype，
Cait Warieet．－Wrarch 30．－Fall Wheat per bushel，90c to 35c spring Wheaf，per bushel，toc to ric Barley，per buibel，
 Merton，$\$ 0$ to $\$ 8$ Stnaw，perton，$\$ 1$ to $\$ 5$ ．Pbtatoes，pcr bushed
 to $\$ 450$ ， 16 ork per $100 \mathrm{lks}, \$ 450$ to $\$ 512 \%$ ．Chickens，per palr，
 60 to soyc Turkrys，cach，boc to $\$ 1$.
Hides，1er 100 lbs，\＄J．－Gall Reformer．
Kifugeton marketa，Yarch soth－What（ispring）75c per bushel，Pease 50 a to 00 c per bushcl；Barley 80 ch to 85 c ．per
 36 c to 40 e per bushel ；Turnips soc to 25 c ．per bushel；Carrots and Dects 80c．to coc per bushel ；Onions $\$ 2$ to $\$ 260$ per bushel ；

 Ins；Sheep and Lamo Slint，Fall \＄1 to $\$ 175$ ；Calf Skins，each － 72 ；Foal Skins，cach $80 c$ to 80 c ．
Montreal Catilo Farket－March 20．－Extra Calle 87 to $\$ 8$ ；Nirst Quedity Coutle $\$ 600$ to $\$ 680$ ；Scoond and Third
 IYogr，lirowelight，\＄5 to \＆ 60 ；dressod，\＄0 to $\$ 0$ 80．Ilides，
 business dolag，butchery not haring gaflicicauy difposed or their Easter purchascs．－Witness．
New Yerk Catele Market－Buis＇s Hrup，Manch 28 － Owing to the supprood ahort supply，the market opcaced rery strong at an adrance or halt a cent a pound upon the ratod quotcd in our
last report of tho marich．Ait his a good roany of tho araticlase last report of tho markch Al his a good roany of tho arat－ciase retall butchert laid in their mupply，some of them paying $15 s^{c} \mathrm{c}$ to
loc per pound for tho stme quality bought last Yonday st isc to 16c per pound for tho sume qualify bonght last Monday at lse to
$15 \% \mathrm{c}$ This chass of stock was not rery plenty，but wo thought
 fair medum qually wationandant，and sold at 130 to 196 tacto wero too many light，thin steers and roagh oxen，but wo did not obscrvo any sales of this class is low as last weok．Prices geno rally wero 10 c to 15 s for tho lower grades Thero wero country buycre or working oxen williog to take them at 13 c ger pound for
tho net weight，and in some Inslances hikger，and gouerally halra than this day weck，and tho market not as sham，though price nore about tho sanio－that is 0íc per pound for good falr slicep or atout of the averazo on tho scaler Tio poorest rough lots of Malium Sheep sold at \＆c per pound，atrd some scallaroags at lower rates All in marlet gold，and no new stocic expected to－morrow． Thiere ts no material difference in the hog markel．The supply is
light and tho irade dull．

Aibany Mariceth－Sarch 2sth．－N＇lour and Neal－The就 unchanged Graintinues actlvo at very full prices Corn Yeal Wheat，with sales of 1,509 bushels Winter Real State，In cer lots at $\$ 165$ to $\$ 168$ ，and 5,400 bnshels White Michigon at $\$ 190$ ．Rye qulet and unchanged．Corn steady and in falr request，with ralos or 1，809 bushels forma Yellowo at \＄1 25 deliserol．oats mitier
 The markot is better this weok，having fotly recorered from the depression that marked the trade seven days ago．Premium $\$ 3$ to \＄3 50 ；Extra $\$ 7$ to $\$ 7.50$ i Rirst Quality \＄0 to $\$ 680$ ；Second Quality $\$ 5$ to $\$ 550$ ．Third Quality $\$ 8$ to it 60 ．Sheep are doing belter this week，athough tho recelpts are heavy The marliet opened with a quick demand，and tho inquify continued brisk to
tho close．An ulsance of 10 to yc per lly was casablished and
 noticedla our last report wras wicll maintalnod at the opicning，and a fow lots wero sold as hieh as 8yic to 8jic，the range how over bo！ng from 8c to 8 jic ger tb．Jourmal．
Chicago Mincketa，3farch $26-$ Proritions still tend up． marict is frm at yesterday＇s adrance，at for fess lorki，and the
 at $\$ 00$ to $\$ 2050$ ，sellers generally holdlug at $\$ 21$ ．Itichled Jfams are scarco and Irm at 12 д̌c to $12 \%$ \％．bulf meats are scarce and Arm－Shoulders at 8 c loose．Land was Arm but pot very active，
 market for Lire Hogz was actire and arm，at \＄5 75 to $\$ 7$ is chledy at $\$ 7$ th to $\$ 740$ ，the market closing hrm．The market for seef Caille was activ
$\$ 50$ ．－Chicapo Tribume．

## gadvertistututs．

## FORESALE，

GHALES MERRYLEGS，a four－year－old Roadater Stallion，by＂Shales Rattler，＂imported，dam by ＂King William ；＂colour dark bay，black mane，tail and legs， 16 hands ligh，beautiful action，and per－ fectly broken．Me has taben several local prizes．

For particulars，apply to the owner，
NICHOLAS GRIMSHAWE．
Sherbrooke Lodge，April 1， 1864.
6－1t

## FOR SAET，

THE thorough－bred RACE STALLION＂TVIIALE－ BONE，＂black，two years and ten months old， full fifteen and a－half hands high；sired by imported ＂Sir Tatton Sykes，＂dam＂Margaret Carter，＂im－ ported by Chas．Gates，Esq．，and descended from the great＂Si：Archy．＂＂Whalebone＂is considered by good judges the most perfect colt of his lind in this Province．He took first prize at Provinclal Exhibition at Toronto，1862，and first prize at Grand Union Exhibition at Toronto， 1869.
For particulars，apply to
JOHN DEW，
Yorkville P．O．，C．W．
April 1， 1864.
G－1t
BLACK SPANESHE FOWV L．o－Persons hav－ ing any of the above to dispose of，may bear of a customer by addressing，stating price，＂THONAS，＂ care of the Eaitor of Tbe Canala Farmer．
Toronto，April 1， 1864.
6－1t

## GROUND BONE MANURE．

reductios is parcss．

FNE Bone Dust， 60 cents per bushel ；Malf：inch Ground Bone， 50 cents per bushel．
On all orders over $\$ 25$ ，a discount of 10 per cent． will be allowed．

PETER R．LAMB．
P．S．－Delivered at the Railway station free of ctarge．
April 1， 1864.
6－1t

## FOR SA工E，

ASUPERIOR Lof of Land－200 Acre3－No．20，in the 7th Con．，Plympton．Apply to

WM．Y．CLARK，
No．48，King Strect East．
Or
S．SPREULL，
Jordan Street．
April 1， 1864.
6－1t

COLLEGTIONS OF CHOICE FLOWER SEEDS fRoM thi; st. Cathamsiss arisemen,

IWILLL send either of the following colloctions to any part of the Province, postage paid, on receipt of the price:-
No. 1.-A nice collection of annuals, for fify cemts,
No. 2.-A choice collection of Anmuals and Perennials, for one dollar.
No. 3.-A superi) collection of Annuals and Perennials, embracing most of the new and costly rarieties, for two dollars.
D. W. BEADLE,

St. Cathatianes, C.W.
April 1. 1864.
6.2t

## FRUET TREES,

A T thest. ('ATIIARINES NURSERIES, of the best quality, carefully packed and forwarded to all p.irts of the Province. Address
D. IV. BEADLE,

St. Catinhines, C.W.
April 1, 1864.
6-2t

## CONCORD GRADE VINES.

$S^{T}$
TRONG Vines of this hardy and valuable Grape for sale by the single plant, by the dozen, or the hundred, at the "St. Cathirines Nershmiza."
D. W. BEADLE,

St. Catharines, C.W.
April 1, 1804.

6-2t

## ORNAMENTAK TREES \& SITRUESS,

Roses, daunas, ac., \&c.,
$T^{\prime \prime}$
R sAl.E in large or small quantutes at the $s T$. CATHARINES NURSERIES.
D. W. BEADLE,

April 1, 1864.
St. Guthanines, C.W.

## THIE BEST ELOWIER SEEDS

CAN be had at the ST. CATIFARINFSNURSERIES. of catalogue price. Send for a catalogue, gising fill description of each flower.
D. W. BEADLE,

St. Cathanines, C.W.
Aprll 1, 1864.
6-2t
CHOICE VEGETABLE SEEDS. Apply to
D. W. BEADLE,

Sr. Cathamies, C.W.
April 1, 1864.
6.24

## HAMILTON (C. W.) NURSERIES.

IHAVE a large stock of fine Trees suitable for spring planting, of sorts recommended by the "Fruit Growers' Society of Upper Canada" as best adapted to this climato-the wood well ripened, firm and thrifty. Apples, standard and dwarf; Pears do. do. ; Peaches on plum roots ; Apricots and Sectarines do.; Cherries, Plums, and Siberian Crabs ; Quinces. Grapes, and all the small fruits ; Rhubarb, Asparagus, ic., of best kinds. Also, Ornamental Trees, (including beautiful Evergreens from 2 to 8 feet high.) Shrubs, Ruces, Climbing Plants, Chinese leonias, Phluxes, \&c.

Packing done in a superior manner, and at a moderate price. Orders solicited.

W HOLTON,
Hamiton, C. W.
April 1, 1864.
6-1t
DO YOU WANT MONEY?
$\$ 3,000$ TO I,OAN-INTKREST MEASUNABLIE.
Terms Most Favourable-Expenses Moderate.

IAX prepared to negotiate Loans upon Real Estate. payable by instaiments; spread orer from One to Ten Years, at reasonable rate of interest, with privilege of paying lack a part or the wholo before maturity, lleducting interest for unexpircd time.

Crown latents taken out when required.
letters of inquiry must be pre-paid.
GEO. F. BURROWS,
Dundas, C.W.
April 1, 1864.
6.1t*

## SIPIINGHLANTING。 <br> TORONTO NURSERIE:

AS the season for planting is approaching, the A. proprictor of the Toronto Nurseries wuuld call attention to the excellent stock which he has to dispuse of this spring. It consists largely of the follow-ing:-Standard and Dwarf Apples, Pears, Plums, Mg :- Standard and Dwarf Apples, Pears, Merms, rants, Gooselberries, Strawberries, Esculent Roots, de. In the Ornamental department will be found Deciduous and Evergreen Trecs, Flowering Shrubs, Roses, Herbaceous Flowering Plants, de. Especial attention is invited to the following articles, the stock of tion is invited to the following articles, the stock of
which is particularly large :-Grape Vines, comprising all the new and hardy kinds; Roses-IIrbrid Perpetual, in very great variety and quantity; Iledge Plants, viz., Buckthorn. Berberry, White Cedar, and Privet. The demand for Iredge Plants is steadily increasing,-that for Buckthorn more especially, which is begond doubt the best plant grown for fencing purposes. Specimen Hedges to be seen at fencing purpo
the Nurseries.
Parties near town about to plant are invited to inspect the stock on the ground. Descriptire catalogues furnished upon the receipt of two cent stamps.

Addresg-
GEORGE LESLIE,
Leslic P.O., near Toronto.
April 1, 1564.
6-3t

## SHORT-IIORN EVILSS

TR. CIIRISTIE has for salo the following very superior pure Short-horn Bulls:-
Eric, 4788 -A. H.B. ; calved April 23ra, 1861. Eric took the second prize at the Provincial Show at London, 1861.

General Gram, 1820-A. 1I. B. ; calved April 12th, 1862. General Grant took the first prize at the Co. Brant Show, in 1863.

Wurlen, $5250-$ A. 11. B. ; calved Jan. 28th, 1863. The Plaing, Brantford, C.W.,

April 1, 1864.
$6-2 t$

## SIKORT-IIORNS.

T OFFER for sale the Bull IIotspur, 4030, A. II. B., rich roan, calred May 15, 1860; got by Duke of Gloster, (11382) out of the imported cow Daphne, by Ifarold (10299.) Hotspur is one of the best living bulls of the get of the famous Dutke of Gloster; has been a successful show bull at the New York State Fairs, is in high health, vigour and condition ; a very strong and sure getter, and very gentle. His portrait is in sixth volume of the American Herd Book. Also, three Yearling Bulls and five Bull Calves (all but one got by IIotspur), of fine promise and good pedigrees. Also, a few Heifers.
Catalogues will be sent on application.
T. L. Manison,

Morles, St. Lawrence Co., New York.
April 1, 1864.
6-14*

## COE'S <br> SUPER-PHOSPHATE OF LIME.

$\mathrm{M}^{\mathrm{n}}$R. COE has received the following letter from Montrcal :-

Yonmpari, 3arch 2nd, 1864
Sif,-1Inving been appolated Superintecuant hat spring of the
 esteemed seodsman, Mr Evans for a for poundz or Coos Super. Yhosplasto or 1 smo in ordor to jodgo perronally of hes fertilizidg cfrcets as a manura, sead to satisty myselr whetheritreally decervad
tho high reputaton in which it was commonly beld tho high repulation in which 12 was commonly beld (ig generajly,
dis:mist tho roliability of widely adrertised ariclos) But now, slr,
 Phooplato greatly excecdod tyy anticlpations, and. that i bellovo it 10 bo supenor evea 10 iss reputaiton. I plantod a pieco of very dry, hant and barren land with potacos and Indan com, nanaring a portion nith stablo. connposh apother porlion with common dit chen salt, and tho romalnder with Super. Phosihato of Limn The

 the Super. H hoqphate with equal success on onlong, cabbages, beans and pense. The Sujer Yhowphate of Ime, In my opinlon, Is one of the noot powerfil and coonomical fertilicers known for the cuttra ton of gardens it docs not force all sors or noxious werds into existenco tilio ztable manure, but on tho contrany, imparts raplatity of growth and vigor to the aserul herts 1 cannot recommend it no nighy to gardonest and
whil bo well plased with it
Allow no to thank you, elr, for the poxerfol fertillzer you sen me, and lellove to les, sir,

Your very humblo servabt,
April 1, 1864.
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## LANIDS FOIR SAKES.

TYWENTY THOUSAND ACRES OF LAND, both wild and improved, and at all prices, for sale in various townships throughont Upper Canada, chenp and on casy terms.
For lists and particulars, apply to the propriblor,
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Sonth-west cor. of King and Yonge-sts., Toronto.
Toronto, March 15, 1864.
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Aduress
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March 1, 1864.
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