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"The profit of the earth is for all; the King himself is served by the field."-Eccess. v. 9.

| GEORGE EUCKLAND, | \{EDMOR, |
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## agricultural operations for may.

This is a busy month forthe Canadian farmer, who has to employ every moment in bringing to completion the various important operations of spring. It is generally a matter of great moment to sow all binds of crops as early as the weather and state of the soil will almit. Peas and oats should have
been got in last month, and the sowing of barley. and all sorts of grass seeds should now be completed as quickly as possible. Barley, as we observed in our last, requires a good soil and thorough preparation, or a heavy yield, even in the most propitious seasons, will be quite out of the question. Grass lands intended for hay should be carefully cleared of stones and all kinds of rubbish, which offer such serious innnediments to clean mowing; and wherever rough manure is employed, it should for the same reason, as well as for the benefit of the crop, be thoroughly worked into the land. In a word, the improving farmer should now do his utmost to give a sort of general finish to his fields, craps, fences, \&ce, which will impart an air of neatness to his farm, during the rest of the year, and materially aid the progress and amount of his crops,

If cattle have been properly pared fọ during the winter, the advantages will now be apparent, in their healthy condition and improved monetary value, Lambs and calves should continue to receive special attention, or the finest individual
specimens of the best breeds will be irreparably injured. A sufficiency of nutritious food to the dam, is the chief means of promoting the growth and strength of the progeny. The milk of the mother, when properly fod, contains all the essential ingredients for building up the healty suructure of her young; it is in fact a chemical compound, nicely arranged, and wisely adapted to that objces. Mink, therefore, coustitutes the natural, food of all our young domesticated animals; and the humane and profitable farmer will make such provision as will ensure them a sufficiency of it. But this cannot be done without providing an adequate amount of nutritious fodder, previous to the setting in of our severe and protracted winters.

We are here reminded, and could wish to impress the idea on the mind of the reader, of the intimately natural relation that subsists between the profitable rearing and fattening of streck, and improved tillage. Slovenly cultivation is quite inimical to the rearing of thrifty cattle, even of native breeds; much more of such as are denominated improved, or pure. The field and the cattle yard, act and react upon each other. We have known experienced agriculturists in England, who, in order to judge of the character of a man's farming, that is cultivation, would be conteut to look into his folds and cattle pens; for if the live stock be all right in amount and condition, the oliance is very small indeed, that the rotation and cultare can be very wrong. This principle, it should be remembered, is not confined to the British Islands, but is of universal appheation.

The advantage to a farm of a large number of good and well fed animals, with reference to manure only, is understood and appreciated by intelligent and improving cultivators, upon all soils, which a courso of cropping has reduced from their pristine fertility. However valuable and indispensiblo may be the mineral manüres, most farmers, especially in a country like Canada, must mainly look to their compostheaps, formed chiefly of animal and vegetable substances, for sustaining the general fertility of their tields.

Entertaining these views, we strongly recommend an extended culture of root and forage crops: The object of the farmer should be to obtain the greatest amount of produce from thé smallest space; hence the necossity of a likeral dressing
of manure and thorough cultivation. Not a day should now be lost in giving to the land intended for such crops, the last preparatory finish. Most failures are traceable to sowing too late, or insufficient attention to the preparation of the ground and the subsequent management of the crop.
Potato planting should be brought to a close as speedily as poss.ble; the experience derived from extensive observations, in various parts of the world, during seweral years past, clearly shews the advantage of early sowing, in order to secure a healthy condition of this valuable esculent. The greatest co should be taken in selecting suitable varieti, and sound and ipe seed. The application of large quantities of string putrescent manures, has been found favorable to the development of the potatoe-disease; whereas quicklime, wood ashes, \&c., may be regarded as favorabto to the healthy growth of the plant.

In conclusion we strongly recommend to our readers, in all sections of the Province, an extended culture of that invaluable plant-Indian Corn. Several varieties suited to our climate have been already introduced, and where proper attention has been paid to the cultivation and management, a remunerating return has, in ordinary seasons, been made. In situations where carly frosts in autumn render the ripening of this crop uncertain, it might be advantageously grown for the purposes of fodder; indeed we think that there is no part of Canada, where Indian Corn might not be profitably raised for the purpose of summer or winter feeding of cattle. We would like to bo favored with the experience or opinions of any of our readers on this subject.

## WORK FOR THE MONTII.

The season has been in some respects an early one in Canada. Ploughing has been extensively prosecuted, while the operations that follow it are in arrears. Ir this neighborhood vegetation bas-udvanced slowly in consequence of the cold, raw weather, and in this:respect we do not regard the Spring as an early one. The following remarks which we copj from that well conducted journal the Working Farmer vill suit.in Capada for the early part of May.

The dates mentioned may all be regarded, as three or four weeks later for this regign.

General Farm Work.-Early part of this month light sandy soils intended for general crops may be plowed, and indeed spring plowing for sandy soils is preferable to fall plowing; tor atthough clayey loams are benefited by winter ridging and the consequent pulverization from frequent freezings and thawings, still sandy soils would not be improved by similar treatment, as they wnuld suffer by working, \&c.

Although clayey soils, as well as all others, should be plowed as early in spring as practicable, still they should not be disturbed while wet The action of the plow is to compact them in lumps, and thus render them unkind and non-absorbants.

Such fields as were plowed last month, but are not yet planted, should be run through by the cultivator immediately before planting, so as to have the surface of the ground thoroughly disintegrated just before sowing the seed; such fresh surface insures rapid vegetation, and buries half germinated weeds too low to interfere with the regular crops. Top-dress winter grains as you now wish to press forward the plants, which could not be done with propriety in the fall, for fear of their being too forward, and thereby more liable to be winter killed.

Attend to water courses, drains, \&c., as during the early freshets your mowing grounds may be rendered uneven in growth, by uneven irrigation. If the season has been backward, you may still sow spring wheat, barley, oats, rye, field peas, \&c. Beans, early potatoes, \&ce., may now be sown. Flax and hemp sow. Attend to pastures. Do not turn cattle too early into pasture grounds before the grass has had time to start fairly, and the ground has become sufficiently hard not to be disfigured by them. If you intend to fatten cattle in the fall and winter, you should now plant out carrots, parsnips, \&c. You can raise eighthundred bushels of Belgian carrots to the acre, and they will do more service for your cattle and milch cows than four times the quantity of ground appropriated to either bay orcorn crops. Cleanse cellars from putrescent substances; plant In= dian corn; sow Lucerne; attend to the extermination of insects, \&cc.

Kitchen Gabien.-This is the month for gardening. All esculents intended for raising seed should now be in the ground, and if not done before, do not delay. Be sure they are nat in the vicinity of others of the same genus, or they will be sure to hybridize and thus spoil each other.

Keep the unplanted soil in motion, and hoe and weed former plantings. Make artichoke plantations; asparagus; beet seeds; sow late
broccoli; start summer cabbage, cardoont, carrots, celery; sow cress; start cucumbers and melons in frames ready to put out in settled weather, (pots,) sow endive; make plantations of horse redish; plant corn; sow leek seed, lettuce, mustard seed, nasturtium; sow ortions carly both for crops, and closely for pips for next year's planting ; put out pips of last year's growth, also top and potato onions; parsley ; parsnips; plant peas, potatoes, sweet potatoes; continue to sow radulish seed; plant rochmarole, rhubarb, salsify, sea kale, spinach, tomatoes; sow turnip seed, canlo rapa, brassica rapa esculenta, \&ic.; pot herbs, \&c.

Attend to dressing artichoke and asparagus beds, \&ec. Plant medicinal herbs, \&cc. Transplant from hot beds to open ground, lettuces, caulifiower, broccoli, cabbages; and in proper weather egg-plants, peppers, tomatoes, \&c., \&c.; pumpkins, squashes, \&c. During dry days, water seed-beds, late transplantings, \&c., until established.

Plant Lima beans, melons and cucumbers in pots under frames, ready to set out as soon as the weather is permanently settled. Those who have no hot-beds orframes, may tarn a sod upside down, in a shallow box, and then cut the sod with a sharp knfie in lines to inches apart, and running in both directions across the box, thus it will be cut in squares; plant a lima bean in the manner directed in our article on the kitchen garden; place this box opposite a window in a warm room, and plant out the squares around the poles when the weather is permanently settled.

Orchaird.---Look well to peach trees, and see that the peach worm is not at work. Pour boiling water on the lower part of the trunls near the ground, and if a sufficient quantity be used it will cook the worm without any injury to the tree; we have tried it fairly, and are well convinced that even three gallons of boiling water may be so used without any injury to. trees.

If the shortening in of peaches, apricot, and nectarine trees, was neclected last month attend to it this month,

Manure tress and recollect that they require cultivation. Attend to propagation of scions early and graft such trees as require it. See Dmoning's Fruit Trees of America on this subject.

To injure a man'c sight, there is nothing worse than sudden wealth. Let 2 woudsowyer draw a ten thousand dollar prize, and in less than a month he will not be able to recognize the man that "used to go sezurity, for him."

## PROVINCIAL AORICOLTURAL ASSOCIATION.

A meeting of the Directors of this Scciety was held in the Court-House at Bruckville on the 19th ultimo, for the purpose of furining the Local Committee and for mating the necessaty preliminary preparations for the next Exhilition. Present, J. B. Marks, Esq., President ; Wm. Matthie, Esq., Vice President; Heury Rutian, Esq., Ex-President ; R. L. Deuison, Esq., Treasurer, and Mr. Buckland, Secretary. The office-bearers were mot by a number of gentlemen belonging to the Town and neigl:borhoud of Brecp ville, who erinced the warmest interest in promoting the otjects of the Association.

The first business was the formation of the Local Committee, which consists of the following gentlemen:-

George Crawford, Chairman. James Crawford, Treasurer. D. Wylie, Secretary.

George Sherwood, J. L. McDonald, Charles E. Jones, Robert Watson, O. R. Gowan. R. Coleman, jun'r.,

## Tex-Officio Members.

J. B. Marks, President.
T. C. Street, 1st Vice-President.
W. Mathie, 2nd Vice-President.
R. L. Denison, Treasurer.
G. Buckland, Secretary.
E. W. Thomson, ex-President.
H. Ruttan, ex-President.

Mon. A. Fergusson, ex-President.
The meeting then adjousned in order to inspect the ground around the town, so that the most favourable site might be obtained for the Exhibition. When the meeting resumed, it was moved by R. Watson, Esq., secunded by Dr. Reynolds, and
Resolvect, That the time for holding the Provincial Exhibition be altered from the 17 th , 18th, and 19th to the 24th, 25th, and 26th of September, and that the Secretary of the Provincial-Association be requested to communicate the alteraGion, to the Secretary of the New York State Agricultural Society, expressing at the same time our regret that that Society should have chosen to fix the same period for their Exhibition, as that previously decided upon by this Society; and that this resolution be subninited to the meeting of Directors to be held in Toronto in June, for their approval.

Moved by Dr. Reynolds, seconded by G. SherYood, Esq., and

- Resolved; That the site offered by C. E. Jones, Esq., on the elevated ground near the English clurch, be fixed upon for the Exhibition.

The Committec then exar. ied last year's premium list, and suggested several alterations and additions for the approval of the Directors, who will meet for that and other purposes connected with the Association, on the 10th of June, in the City of Toronto. The premium !ist will be issued immediately after; in the mean time it will be satisfactory to the public to be assured, that the Directors have gool reason to hope that they will be enabled to offer this year a larger amount in prizes than heretofore. To secure, however, this most desirable object the liberal aid of societieg and individuals is indispensible; and most earnest'y is it to be hoped that such aid will not be withheld. The Town and District of Brockvillo have handsomely contributed, as have also several societies, anci such as have not yet made any grant are respectfully requested to do so without delay.

We have said that the Directors were received at Brockville in the most cordial manner, the mention of one proof out of several will be sufficient.
In the evening they: were invited by the officers of the Johns.own Agricultual Society to a dinner at Wilson's Hotel, which was got up in excellent style; George Crawfore, Esq., occupied the chair. Several toasts were given and respunded to by Messrs. Marks, Ruttan, Mattbie, Buckland, Sherwood, Jarvis, Jones, Denison, Gowan, Hougk, Watson, Dr. Reynolds, \&c. The evening was spent in the most agreeable manner; the objects of the Provincial Association were kept specia ly in view; and from this friendly and auspicious commencement, the most gralifying and satisfactory results may be confidently anticipated from our next annual gathering on ore of the mos! interesting and picturesque sputs to be found on the majestic St.LLawrence.

## LMPROVEMENTS IN AGHICULTURE

During the session of the Legislature of Nem Jersey, we have scjourned at Trenton for the purpose of placing before the members such evidences as ye could furnish, in favor of the appointment of a State Agriculturist. The Bill was presented in the Senate and lost by a tic vote, a majority of the whole number beang required to pass a bill. The bill would undoubtelly have passed; if other appropriations of a more ponular character, réquiring large expenditures, had not
rendered the smell amount asked for by the farmers an additional cause of alarm to those politieians who feared being charged with having emptied the Treasury. Among these may be named the House of Refuge, requiring an appropriation of $\$ 30,000$, and the Common School Bill, requiring a still larger sum. Among those who voted against the bill, we knew of but three who did not express themselves favorable to its passage on its merits, but feared to make any further appropriations at present, and hence, from this fear, the petition of 4000 citizens of New Jersey, 3000 of whom were farmers, was rendered unavailing, and the greatest interest of the state, furnishing ninc-tenths of all the taxes paid, is compelled to forego the passage of the only bill they have ever asked for their especial benefit, because a few politicians feared they would be rendered unpopular through the efforts of their political oponents presenting a diminutive treasury, as compared with that of the previous year.

Many farmers who had attended our lectures in different parts of the State, came to 'Trenton to advocate the Agricultural Bill, and with one accord they represented that the crops of those who bad adopted our recommendations had been materially increased, without a corresponding increase of expenses.

Indeed, several members of the IIouse of Assembly were themselves witnesses of similar results on their own farms and in their own neighborhoods; and had the bill passed the Senate, it would have been passed in the Assembly by a large majority.

Within the last three years we have visited many farms in New Jersey, and some of the owners of these farms sent ce, tificates of results to Trenton. One represented that under our advise he had added the missing constituents to his soil, at an expense of only $\$ 4,121$ per acre, with proper tillage, and produced, in consequence, the following crops:-Corn 128 bushels of ears per acre, were formerly, with much larger expenditure for manures, but 30 bushels of shelled corn had been produced. Potatoes 310 bushels per acre. Mangold-wurtzel 16 tons per acre, and other crops in proportion. Another (a member of the House of Assembiy) represented that on a prece of ground in Passaic County which had been considered of very inferior quality and unworthy cultivation for corn, he had raised, by adding the missing constituents of his soil, under our advisement, 138 bushels of ears of corn per acre, and that his crop of long orange carrots averaged 600 bushels per acre; and that the expenses for fertilization were less than ordinary method by barn-yard manuring.

Another farmer from Monmouth County, represented that by the use of the sub-soil plow, under a recommendation contained in one of our lecturcs, on a field of tiventy acres, and by the application of decomposed bog on another field of similar size, he had increased his corn crop each from 20 to 25 per cent.

Another farmer of Preeliold represented that he had raised betseen 4000 and 5000 cabbages on half an acre, and at the prices at which he had made sales, the returns were at the rate of from $\$ 400$ to $\$ 500$ per acre. This land was thrown into garden heart at one operation, and the land left in so improved a condition after the cabbage crop, as to be bencfited for future crops mare than the whole crop of fertilizers used for cabbages. Many other farmers reported large crops resulting from our advice, and from some neighborhoods large numbers signed statements that the whole crop of the township had been materially increased by our efforts. It was also shown to the Legislature, that we had taken the first premium for our market garden from the American Institute, and that we had raised 1500 bushels of parsnips, 900 bushels of carrots, 800 bushels of ruta baga turnips per acre, and other crops in proportion, but all these facts could not avail in causing the Senate to appropriate a sum onily equal to the necessary expenses of a State Agriculturist during the delivery of five lectures in each county in the State.

We asserted, without fear of contradiction, that in no case where we had been furnished with an analysis of the soil, had we failed in increasian the income of the owner more than ore-third, and. this too, a iter having adrised under such circumstances more than one hundred farmers in New Jersey.

Some members could not believe that we bad discovered so much that was new as to enable us to produce such results, and they were. right. We do not claim any such credit, but simply that we have put in practice what is well known to the fer among the many. We often hẹar of large crops raised by individuals, whose neighbors produce no such results. In such casés, wie visit the growers, and find out, if practicable, their methods, manners, \&c., and then by an analysis of the soil, compared with that of the crop, are enabled to advise others so as to enable them to produce similar results. We claim no originality, but merely with the assistance of chemistry, to be able to duplicate on any soil containing a fär average of constituents, the same results' which may have been produced on any other soil-ixil: of which may be done by adding the missing constituents to the soil, with such cuillivation as the peculiarities of the crop, mechanical condition
of the soil, \&cc., may require. 'The Bill referred to will undoubtedly pass next year, and we hope to hear of similar movements in many other states.-Working Farmer.

## DUTTER MAKHGG.

We find in the Albany Cusltivator for May a portion of a valuable and interesting report on the manufacture of butter, which was made last season to the Worcester County (Mass.) Agricultaral Society, by John W. Lincoln, Esq. The first requisite laid dows for the production of good butter, is good pastures-such as produce a sweet and plentiful herbage. White clover and the finer grasses are recommended, and it is important that there be good water at all times accessible to the cows.

Good cows are the second requsite. On this point it is observed-
" There is belieyed to be a mucir greater difference in the quality of cows for the butter dairy, than has generally been supposed. It is known that some cows yielding a larger quantity of milk-are of but little value for the making of butter. It appears by the certificates of competitors for the premiums offered by this Society in 1848, for milch cows, that the weight of milk required to make a pound of butter, varied from $17 \frac{3}{4}$ lbs. to $30 \frac{1}{2}$ lbs., and these cows, at least in the estimation of their owners, were considened extraordinary animals, as they were offered by them for premiums. The Chairman owns a cow, from less than six quarts of whose milk, one pound of butter was obtained, and has had others, which were considered good cows, the milk of which would not give a pound of butter to twelve quaris; and it is believed the latter quantity is better than is obtained from the average of the cows of this county. Every farmer should make trial of each of his cows separately, and if she is found not to give rich milk, she should be sold or excbanged with one who, for other parposes, may deem quantity of milk of more importance than the quality of it. For the purpose of testing the quality of the milk, a lactometer is a convenient and not an expensive instrument. Good milkers, both as regards quantity and quality, are frequently met with, and their valuable properties, it may reasonably be expected, will be transmitted to their descendants; calves from such mothers should never pass into the hands of the butchers. The quantity and quality of milk may he greatly improved by atiention to the feeding of the cow $;$ she is the machine in which the milk
is manufactured, and those who wish an abundant supply of that, which is good, must see that the animal has a liberal supply of saitable materials from which to make it."

In regard to churns, it is mentioned that there is much difference in the quantity of butter whicls is prodtuced by the farions kinds, from the same quantity of cream. The results of seme comparative triaks with Galt's and Robbins' churns, are given, in which the forner appeared to have considerably the advantage in this respect. A churn called "R. W. Davis' patent self-adjusting churn," is highly recommended. It is said to churn, gativer, and work the butter without its being taken from the churn and without being touched by the hands. As a churn, it is said not to be inferior to any of the rotary churns, and being able to work the butter, it is thought to have a greaz adrantage over all others known to the author of the report. The price is said to be $\$ 1,50$ to $\$ 6,50$, in proportion to size. They are made by Fairbanks \& Stone, Westboro, Massachusetts.

Rapidity of Churning is discouraged, as tending to prodice an inferior quality of butter. On this pount reference is made to Prof. Norton's Elements of Scientiffe Agriculture, as follows :

## "Several churns have bepn exhibited Iatel'y,

 which will make butter is from three to ten mintutes, and these are spoken of as important improrements. The most carefully conducte trials on this point, have shown that as the time was sinortened, the butter grew poorer in quality, and this is consistent with reason. Such violent agitation as is effected in these churns, seprarates the butter, it is trie, but the globutes are not thoroughly deprived of the casein which covers them in the milk; there is consequently much cheesy matter minglet' with the butter, which is. ordinarily soft and pale, and does not keep well. Until the advocates of very short time in churning, can show that the butter wade by their churns is equal in quality to that produced in the ordinary time, farmers had better beware how they change their method. lest the quahity of their butter, and consequently the reputation of thèr dairy, be injured."A. brake is recommended for working butter, instead of the hands: A wooden table is thought preferable to marble, to work the butter on,

The mode of manufacture practised by Charles E. Miles, whose butter was pronounced of very superior quality, is in substance as follows: The cream is not allowed to change by standing, before it is churned. Crowell's Cylinder 'Thermometer Churn is used. After the churning is well done, the buttermilk is drawn from the churn, and cold water put therein, and the butter thoroughly dished to extract the buttermilk. [It is proper to remark, that the chairmon of the committee who made the report, objects to the use of water for this purpose, as "wholly unnecessary, and prejudicial to the butter."] The butter is then seasoned with salt-about an ounce of salt to a pound of butter; it is then thoroughly worked upon a butter table, by the aid of a brake-not allowing the band to come in contact with the butter. By the use of butter-paddles, it is then moulded into pound lumps, and fitted for the market.

Good salt is regarded as of much importance. It variês much in strength, and none but that which has been proved to be good, should be used.

Vessels for keeping. Stone pots are recommended for this purpose, in preference to wood. If wood firkins are used, they should be made in the most thorough manner, and be thoroughly soaked in strong brine before the butter is put into them.

A good milk-cellar is thought of great impostance.
"It should be cool, having windows to allow a free circulation of air. To prevent the admission of the rays of the sun by the windows, and thereby render temperature in the cellar less cool, it would be well to have blinds secured with hinges to the building at the upper side of the blind, that it may be turned up against the building and buttoned there when not in use, and when wanted let down to a horizontal position, where it wiil be retained by resting on stakes at its extreme corser, in which situation it will screen the cellar, and at the same fime allow a free circulation of air. The mill vessels should not be allowed to stand on the botton of the eellar, but should be placed on shelves suspended from the top in such manner that the milk may have the benefit of the pure air. Care should be taken that no milk be spilt, or any thing allowed to be therein that may produce any unpleasant smell, which will be sure to taint the mill and thereby injure the butter."

Lastly, a good dairy-woman is considered of more impartance than all.
"On her skill and good management frequently depends the question whether the farmer is to obtain the highest market price, or a sum insufficient to pay for the labor bestorved in making the butter. The most perfect cleanliness must be observed in all the stages of its manufacture. The pan and pails, should be frequently washed, scalded, and sunned, and all the utensils kept perfectly sweet."

## INDIAN CORN FOR FODDER.

The practices of raising Indian Corn to be fed: to stock in an immature state, either gresu or dried, is not uncommon. It affords more forage; probably, than can be obtained from any other crop. It has been generally sown hroadcast, harrowing in about two bushels of seed to the acre. But experience has proved that it is a better way to put the crop in drills, on account of the advantage it gives for destroying weeds. In broadcast sowing, the weeds often get the start of the corn, and prevent its growth, more or less.

In drill planting, the seed may be put in with a machine, drawn by a horse, by which the work is executed with dispatch. The rows may be from two to two and a-half feet apart, and it is best to use seed enough to have the stalks thick and fine, as such are eaten better by stock than larger ones. The crop may be kept clean by the cultivator, which should be passed through the rows as soon as the corn is fairly above ground.

The value of the crop depends somewhat on the variety of corn chosen. It is sometimes recommended to take the large southern corn, for this purpose. It may give as large, perhaps a larger crop, but stock do not like it as well. The best variety is the common large sweet corn. It makes a good growth, tillers, or suckers much, and the fodder has a peculiar sweetness which induces cattle to eat it with more avidity than they will eat that of any other kind of corn. A farmer in this vicinity who planted considerable corn last year, for feeding out while green, had three kinds of seed; southern, yellow or Dutton, and sweet corn. He began cutting the sweet, using it to feed stock: which was to be exhibited at the State Fair. They ate every bit of it with a good relish; but when the sweet corn was gone, and the usual quantity was cut and fed from the Dutton and southern, the cattle discovered the difference at once. They smelt it over, tossed it about with their noses, and finally would not eat it without wasting more or less. The same thing has been noticed with hogs, when the corn
crop has been cut up and fed to them white the ear was soft. Thej would cat the sweet corn, stalk and all ; but would leave much of the other, though both were in the same state of ripeness.

The Indian corn plant, in its green state, contains so much sap that it is with dilliculty dried so that it will keep well-it as very hable to become sour and mouldy, in the barn or stack. On this account many do not attempt to keep it till winter. Its use, however, as green forage, is erery year increasing. Dairymen find a great advantage in feeding it the latter part of summer and in autumn, when grass is gencrally short, and often very scarce, from the effect of drouth. For this purpose it is sown at intervals in June, and as late as July, on good ground, and the crop gets forward so that it muy be cut in August; and as the lots from the diflerent plantings come in successively, they may afford a regular supply till hard frosts come. It is fed in mangers, in yards or sheds, or carried to grass fields-cutting it in such quantities as are needed from day to day. It may be cut, if required, when it is not more than a foot high, as in such cases it will start again and aflord a second cutting ; but it is deemed best when the stalk is fully grown and the grain is beginning to form. If the crop is to be dried for winter use, it is best to let it stand till the top or "spindle" begins to die, as it will then contain less water, and can be cured with less labor. A good mode of curing; is to cut.it in fair weather, let it lie (as thin as possible) and wilt one day; then bind it in small bundles, putting the band as near the top as practicable, and gather the bundles into small slocks, open at the bottom, and let them stand till sufficiently dried to be put in the barn or stack.-Aluany Cultivator.

## QUANTITY OF FLAST-SEED YOR AN ACRE.

The Albany Cultiveltor in answer to a correspondent remarks that the quantity of flax-seed proper for an acre may vary according to the object. If the crop is destined for seed, it is probable less than a bushel might give as large a yield as more; but if lint or fibre is the object, more seed would be required. We notice in th: report of a discussion at a late mecting of the Council of the Royal Agricultural Society, Mr. Marshall, M. P., said-" With regard to thick and thin sowing, that question had reference to the object of the cultivator, namely, whether a fine fibre andlittle seed were required, or a coayser fibre with a full crop of seed. On the banks of the $\mathrm{I}_{\mathrm{y}} \mathrm{s}$, in Belgium, where the fipest flax had been grown for centuries, and used for making the finest lace, they practised thick sowing, 3.1
bushels per acre, and obtained isbout 14 bushels of seed per acre; bit the stems weic long and straight, without branches, and the longest fibre was obtained. In Ireland and Russin thin sowing was practiscd, from 2402 2 bushels per acre, and f. ona 16 to 20 bushatis of secd iretc obtained; but the stoms of flax brauched wut more, and an inferior fibre was the result.

PRIZEA FOR THE IMIIIOVED BREEDS OF CATTLE.
To the Editor nf the C'we.liun Agricu'turis!.
Sin,-I was asked by a gentlemon of comsidcrable experience in England with all deveriptions of cattle, why more premiums were allowed to Durham cattle than other pure breeds?-'The Lioyal Agricultural Society allowing the same amount for Herefords and Devons as Durhams? If any one will state why the latter are more deserving preference in Canada than in England, I may trouble you with some reasons to prove the contrary.

I am Sir,
Your obedient servant, Dan'l Tye.
Wilmot, April 7th, 1851.
[Our pages are open to the discussion of the questions involved in the above communication; and we shall be happy to hear again from our corrcspondent. The priscipal reason why the Provincial Assoctation offers more prizes to the short horns than to other pure breeds, we take to be the fact, that the Dutham stock is by far the most numerous, and the range of the competition therefore much wider. In fact, no Herefords, we believe, have ever been slown at our Provinciat Exhibitions, except a few that were exhibited in the Foreign department, last y ear, by imericans ; and the number of pure Devons is as jet very inconsiderable. The Ayrshires, in the Jeastern Section of the Province are, we understand, increasing. It is an important and legitimate subject for investigation to ascertain the relative adaptation of the various breeds of cattle, and other classes of live stock, to the economical and phesical condiions of this country.]-Editor.

Fracre. - Examinic the fences which enclose yout fields-do it yourself, aivd lave every weak point made strong. Failing pasture cempts slock to break in and destroy. Core in this regard now, may save you from vexation and loss herealter.-Germanhun Tclegraph.

## A REGISTER FOR INIPROVED STOCK IN CANADA.

## To the Editor of the Canadian Agricultirrist.

Dear Sir,-'The Agricultural Society of the united counties of Frontenac, Lenox and Adding(on, having lately purchased several Bulls and Cows of the Durfiom variety, for the purposes of breeding, it has occurred to several of us, that a Provincial list, or if I marpresume to dignify it, by the cognomen,-"Herd Book," in which the pedigrees of all animals of the improved breeds should be fully inserted, would prove gencrally interesting and useful. Will you, or any of your readers, turn your attention to the subject? The matter might perhaps be taken charge of by the Provincial Association.

I rem:ain yours, truly, J. Minks, President Agri'l Asso"n Upper Canada.
[We think the above suggestion of great inlportanee, and thiat it should be brought before the Board of Agriculture as soon as that body is organized. A full pedigree should be given with every animal extibited for a prize at the Provincial Association. We recently spent a day most agreeably with Mr. Marks and several of his intelligent and enterprising neighbors; and we were particularly gratified in viewing the live stock, including both cattle and sheep on the tarm of Mr. Wim. Ferguson, the respected Treasurer both of the County and Agricultural Society.]-Editor.

## THE TURNIP-FLY AND TUE MEANS OF ARRESTING ITS RAVAGES.

Eatly turnips-bring so a high price in the New York and other markets, that every means should be tried to do away with their enemy, the feabeetle. We succeeded in raising early turmips two yeats since in an xpple orchard. The continued falling of blossom Yeaves from the apple trees kept of the fly, while the tumips planted beyoud the onter rows of the trecs wereall cut off. In Monmouth County, New Jersey, early turnips are raised with more eertainty thian any where else in our vicinity, and $\$ 500$ is offen realized for the crop of a single acre. It will be observed in the following article, that dissolved bone-dust and guano are recommended to-push forward the soung turnips beyond the seach of the Ry. An admirable manure for turnips may thus be pre-pared:-Dissolve five bushels of sugar house bone-black in dilute sulphuric acid-add this solution to a half cord of swamp muck or other divisor, with which one hundred pounds of Peluvian
guano has been proviously mixed, and then add a s.lntion of 50 lb of potash scrapings, and apply the whole to one acre for turnips. The crop wilt be more than double what would result from the arplication of four times the value of this compost in barn-yard manure, while the value of the lurnips per bushel will be greater than if raised with ciumr. Messrs Bart \& Attenbury, No. 25 Clif̄ stuect, New York, are preparing to supply farmers with sulphuric acid in an unfinished state, rqually good for use as a solvent for bones, at a relluced price as compared with the ordinary mercurtile article. Mr. J. J. Schofield, of Morristown. Now Jersey, has raised by the use of proper fertlizers, 1400 bushels of Ruta Baga turnips from one acre.-[Ed. Arirhigan Farmer.

Among the very useful societies which are at work throughout the country, we hardly think there is one which for the same small amount of income effects so much good as the ChimicoAgricultural Society of Ulster. Hailing, as we always do, anything calc alated to benefit the sister island in her agriculture, and consequently in her arts and morals and civilization-for as sure as agriculture becomes a scientific pursuit, so sure will these follow in its train-we rejoice to find this invaluble society still at its woik of improvement ; and the articles in its paper, the discussions at the mectings, and above all, the presiding geniue of Professor Hollges, its chemist, show that, with means ridiculously small, it has accomplished and is accomplishing wonders.

At the risk of appearing to prefer "pork in the dog-days," we cannut help, even at this season, alluding to a discussion which took place before the Society on the turnip-fly, and the means of arrusting its raviges, because the good sense of the remarks made, the intimate acquaintance with tite matural history, habits, \&c., of that insect, were most creditable to the speatrers, and would dos credit, in fact, to the conversaziones of the Eutomological Society-if, indeed, its discussions were ever of so practical a character.

We need hardly say that the insect spoken of was the flea-bectle-the hal ica nemorum, a minute skipping beetle, with ten strati-colored stripes upon each of its wing-cases, which attacks the turnips just before the plumule is developed into leaf, and cuts and consumes the whole of the cotyledon leaves, so that the plant dies; and allthis is generally the swork. of a clay. A.farmer will look anviously for his young plants-he will see them spring up with vigor and regularity-he will watch them two or three days-there is a broad, clean expansion of leaf, and the plumule is just bursting into "rough leaf," as it is termed, when, lo! thousands of minute insects will maka their appearance as if they had dropped from the clouds, and the whole coop will disappear in forty-eight hours. And if the crop be white turnips, he may sow once every day, they niever will recover. If they are swedes, however, having much more tenacity of life, they will survive, if only the plum mule is left uneaten. Once lei the secondary leaves be developed, and all is safe: they may bo
there, and eat to their hearts' content-they may do jinjury, but they will never destroy the crop.

The remarks made on the natural history of the insect did credit, we said, to the speaker, and especially the paper of the Profersor. He says, ${ }^{6}$ s to this point, that if they examine the turnip, leaves in the months of July and Augusi, they will find the eggs deposited, which are nearly the color of the leaf itself. In ten days the larvæ or maggots, of a white color are hatched, and immediately betake themselves to the substance of the leaf, between the upper and lower skin, and then consume the cellular substance of the leaf, forming a series of net-work in it, burrowing in a mass of shapeless mazes, and wonderfully avoiding each other's course in the leaf. For sixteen days they thus proceed, doing little apparent injury indeed, and at the conclusior: of this term of probation, they drop out and bury themselves about two inches in the ground, there to change into the almost motionless pupa, in which they remain about fourteen days more, and at last emerge in the perfect form. During winter it betakes itself to the crannies of bark of trees, stubble, \&c., to be ready to emerge as soon as the turnip or any of its congeneres make their appearance, especially the charlock or will mustard, which is the "early spring food" for a host of these vermin; and it will often be observed that a dozen to a score of these insects are attacking a single plant in the month of April, and before any turnips could be available for its use.

The review of the remedies proposed for this pest is very sound and prabticable. Snuff, assafoctida, \&c., applied to the seed are very properly discarded. Nitrate of soda applied to the seed is ipoken of with more favor. Linseed oil and sulphur applied in the same manner are spoken of, we think, also with deserved disfavor. Mechanical modes next come under review; and the ingenious one of Mr. Paul, who sows a plot decoy turnips sometime before his crop, and then calches the intruderes in a net, is amongst the most ingenious, and not unworthy of notice. The painted board as a trap, against which the insects jump, and are detained by the paint is also noticed; but we fear it is but an ineffectual remedy.

The most eficient cure, however, depends on two facts-first, to keep the land as clear of charlocis, \&c., as possible, and then to push on the plants in their early stage with such a degree of rapidity as to overcome the attack. Hence, we hardly ever knew a soil in fine tilth, manured well with guano or dissolved bone, the turnips reasonably thick, that were totally dissolved. We must say that we have seen striking instances of a powdering of lime preventing the destruction of the plants. We one season witnessed this at Leyfield, near Newark, in Nottinghanshise. Mr. Parkinson had a field most vigorously attackod. He dusted the plant by hand with lime, two to four bushels per acre. One piece was left for experiment-sake, or from falling short of lime, unsprinkled. The crop was saved, with the ex-
ception of the few undusted rows, which were lost.

We cannot help, however, expressing our strong approval of the prevention noticed in the discussion before alluded to, viz., till well, keep clean, aud use some stimulating manure: this with plenty of seed, will scarcely ever fail of preventing the destruction of the crop.-Gardeners' and Farmers' Journal.

## AGRICULTURE AND IMPROVEMENTS AT PERTH-COUNTY OF LANARK.

## For the Canadian Agriculturist.

The Perth Agricultural Society, has now been in existence something over 10 years, and has proved of much benefit to the surrounding Townships. Compared with its resources, it has expended liberal sums in the purchase and introduction of valuable and improved breeds of Sheep, Hogs, Horned Cattle and Horses, as well as seeds and Agricultural implements. It has been the means of gathering together the friends of the farming interest here, and of circulating a great amount of Agricultural information. As one instance of an improved state of feeling, I mention the fact, that while at first, the very common prejudice against book farming existed, so much so as to prevent the perusal of an Agricultural paper except by a very few persons, we now circulate regularly every month something like 80 copies of Agricultural papers. A spirit of enquiry has thus been created-or to use other words, the ground has been prepared-good seed has been sown, and we have every reason hereafter to expect a bountiful harvest.

The officers for the current year are-
$\left.\begin{array}{l}\text { W. Spalding, Esq. } \\ \text { Thomas Cuddie, } \\ \begin{array}{l}\text { John Moderwell, } \\ \text { Alexander Ferguson, }\end{array}\end{array}\right\}$ Vice President.

| W. O. Buell, | Treasurer. |
| :--- | :--- |
| Thomas Thompson, | Secretary, |

besides a large and active managing committee, whose names I cannot send you, not having a list by me.

A fresh premium list has been prepared for 1851,-a show appointed for Septernber nextarrangements made to pay premiums in cash on the ground-and generally speaking, the Society is in a vigorous and flourishing condition.

## W. O. Buell.

Perth, April 18th, 1851
P. S. If the projected Railsoad from Montreal through this place, becomes, as there is reason to hope, a great fact,-our Farmers will be placed in a mos£ prosperous and enviable position. We will then put in our claims to have the Provincial Exhibition at Perth.
[13- Apply your soap-suds to your grape vincs and rose bushes; they will be benefited byit.

## ENGLISH FARMING.

A farmer writing in the Cumberland Pacyuet thus describes My. Iludson's larm at Castleacre:"I went some time since to Castleacre, to visit my friend Mr. Hudson, whose nametand writings are welf known in the agrioulduraf wotld ; and I need nots say I met with a most lind liberal, and unostentatians reception. It is 292 years since Mr. Hudson took the Castleacre farm, under Lord Leicester, (then Mr. Coke), after having cancelled tive years of the old lease, by which he loit £500. His rent was then $£ 1,500$ per annum for 1,400 acres. Scven years ago the lease was renewed for 21 years, at $£ 1,600$ per annum-a fair rent at that time; but when we consider that the saleable value of the estate has been increased by Mr. Hudson's industry and outlay to the extent of not less than $-10,000$, it is to be presumed that he would get a renewal of his lease on liberal terms; or otherwise that he may, during the next seven years, endeavour to withdraw from the land some reasonable portion of the capital he has invested in it. Mr. Hudson referred to his books to show that during his tenancy he has laid out in oilcake and artificial manures $£ 55,000$. The oilcake is laid ou the land after passing through his cattle in the act of feeding them, but still it is money laid out in manure. This fear his outlay is for 200 tons of linseed cake, at 56010 s . per ton, 1 1,250; 56 tons of Peruvian guano, $£ 560$; uitrate of soda, sulphuretted bones, \&c., $£ 400$ more; besides Egyptian lentils; Indian corn, \&c., for feediug purposes. He is now feeding cattle as the quack advertisers would feed us, namely, on Revalenta arabico, which is said to be ground Egyptian lentils, to the number 160 beasts, besides 100 of lean stock and cows, all of whioh will be turned into cash by May-day. They are lodged in eleven straw-yards, with sheds all round the quadrangle, and all abundantly supplied with food and water. With the cattle associate a good many growing pigst which quqquick enough to pick up a living amopgst their betteris Mr. Hudson is preparing thee beautiful Devon ozen for the Smithficlus shauk They appear small animals, but of excellent form and quality, and the fattest one is estimated to weigh 90 score, which at 6 d . per lb. is $£ 45$; and if he obtained a $£ 20$ prize the ox will pay well. The mangers these animals feed from have slate bottoms, which are toth olean and very duable. Mr. Hudson has 2700 sheep, 2500 of which, after their fleeces are oft, will be sold in Smithfield before Midsummer, the breeding ewes being retained. The wool will be sold before Christmas, 1851, Mr. Hudson making it a point to adopt the commercial maxim of selling all he makes, whether it be beef, mutton, pork, corn, or wool, before his annual stock-taking. From about the end of November he sends about 150 quarters of grain to market weekly, until all is sold. His land sown and sowing with wheat this ycar is 500 acres, in the fields 35,40 , and 50 acres each, and in each field the crop is stacked on circular bottoms and iron posts two feet high and three feet apart. Wis circular stacks ate 27.
feet in diametor at the bottom; of symmetrical form, and beautifully trimmed. His barley stackm are oblong, 60 feet long: by 20 feet wide, and not on raised bottoms; so that the rats, poor things ! are kept on barley instead of wheat. Mr. Hudson paid $\pm 2950$ in wages in 1849, and $£ 2700$ in 1840 , and usually receives fiom $£ 8,000$ to $£ 10,000$ per annum from Smithfield market, according to the price of meat, now considerably less, the price of meat being too low to pay. He has put on his turnip land this year 3,000 tons of yard manure, and on his wheat land 2,000 tons; bo sides guano, bones, and other things. Wher visited them, they were ploughing a little field of 35 acres with four pairs of oxen; and as they finished a ridge, six or eight feet wide, and whilo the mould was fresh and moist, the seed-drill followed; and after the drill came the harrow to finish with-the three operations going on together. I asked "what crop had you on this last ?" "Turnips." "When did they come off ?" Yesterday. We hauled off half, and feed of the other half with sheep, and they finished their feed yesterday:. We never let the land lie-we plough and sow directly we get the turnips away." "Well but where are the weeds ?" "There are none, the turnips are kept perfectly clean. The same principle is adopted in turnip sowing, we put in the seed instantly the plough has passed over it,* Mr. IIudson uses Howard's (of Bedford) patent plough. He bought a dozen of them four years ago at $£ 415 \mathrm{~s}$. each. His dibbling machines cost f60 each. He has six road waggons, 18 Glourcester harvest waggons, 12 two-horse tumbrils with iton bottons; 4 light Gloucester waggons for hay and light work, and a few one-horse cartis harness are on the premises. His saddlery and harness are all repaired on the premises. And one of his steam-engines was made at home. This is all so different from the extent and routine of an ordinary Cumberland farm, that you may think I am romancing, but you must come and see, and then you will believe. Mr. Hudson has two stationary steam engines, of 12 horse power each, on different parts of the farm; and he finds they are not sufficient for his worl, and is building a tbird. The castings are made in the village; and his engincer and blacksmith, with theirforges and lathes, put them together. One of the engines was at work threshing barley, two men were in the stackstwo loading the waggons, and two pitching from the waggons to the engine, another receiving the grain in swills, from which he returned it into another whirligig to have the beards broken off. The straw came out at another place, and was pitched away; and a cloud of chaft and dust showed where the winnowing, was going to. The same engine was, at the same time, pumping water, grinding Revalenta arabica, and breaking oil-cake. The same machine also presses linseed for exiracting the oil, which is pait into large wine pipes and sent to America for sale. and the cake goes to feed the cattle. There is also attached a flour mill, as well as a barley-flour mill, for grinding the refuse corn, beans, \&c., for feeding purposes; a saw mill and other conver.
nienctes. The cart-wheel felloes are cut out in segments by by the machinery of the engine, and much other work done by steam agency. Mr. Hudson has 40 work horses and 18 working bullocks. The latter work double (? half) shifts, viz., two oxen in a plough - he keeps 4 ploughs at work 10 hours a day, and they plough from one and a quarter to one and a half acres daily each plow ${ }^{\prime}$ ' The straw is cut into chaff ; the turnips are slicu and-other roots are cut by the steam machinery. Mr Hudson has two suits of cothes, one fine and the other coarse, and his wife has a beautiful shawl, all of their own wool. As for a thistle growing on the farm, you might safely offer a guinea for it; and the land is, for 1400 acres, like a garden. Women and boys are constantly employed picking up every stray weed, and sometimes they contraci for it by the acre. Altogether, the farm, the farmer, and the style of farning, is such as few Cumberland farmers can have any idea of."
on sowing, broadcast, prilled, and dibbledthick and thin-and at different depths.

We have briefly noticed the numbers of the "Farmer's Guide to Scientific and Practical Agriculture" by H. Stephens, F. R. S. C., assisted by Professor Norton of Yale College, as they have appeared. It is an admirable work, and is now published in a form and at a price that will enaOle every intelligent farmer to possess himself of a copy. Nearly every opetation of the farm is explained and illustrated in a plain and simple manner. We have at some expense procured the ongravings which follow, showing the importance of good ploughing, and drill-sowing. We shall copy other useful matter from this excellent book, in future numbers.

Broadcast sowing.-Of all the modes of sowing the seeds of the cereal crops, none requires so much seed as the broadcast. The usual quantity of seed sown is 3 bushels of wheat, 4 bushels of barley, and 6 bushels of oats to the acre. Thirty years agothe quantities of seed sown were larger, viz.:- 4 bushels of wheat, 6 of barley, and $7 \frac{1}{2}$ of oats. These quantities I myself have sown.

However well the land may be ploughed, the seed sown broadcast will braird irregularly-some falling into the hollowest part of the surface, some upon the highest, and some being scarcely covered with earth by the harraws-some sliding genIly into the rut after the tines have passed, whilst others are carried as deep into the ruts as the tines themselves penctrate. To harrow the land smooth, previous to the sowing of the seed, would not cure the inconvenience of irregular covering, since it is impossible to cover so large a seed as that of the cereals, merely with the action of the lines of the harrows, without the assistance of a rough surface of mould. On smooth harrowed -ground the seed would be left on the suiface, and oven harsowing, as presently conducted, leaves
many seeds exposed, to be picked up by graniv.. orous birds. What I have stated may be illustrated by the following figures, where from $c$ to $d$, fig. 1, aie represented furrows, well and regularly

Fig. 1.

welle-ploughed regular furrow-slices. ploughed; but it is obvious that although the seeds will fall successively more into the hollows between the furrows than upon the sharp points, when scattered broadcast from the hand, yet some will tall on the points and sides of the furrows. The seeds will lie in the ground, as shown in fig. 2 , where those are thicker at $e$, which fell into the hollows of the furrows, and thinner it $f$, which stuck upon their apex, or on their sides. But even their position will not be so regular as is here represented, where all the seeds are at the same depth from the surface, for some will be deeper

Fig. 2.

the position of seeds when sown on hegular FURROW-SLICES.
than others, some too deep, and others too shallow, whilst not a few will have been left exposed 0 . the surface. From such a deposition, as in ing. 2, the plants will come up in the irregular mayner represented in fig. 3 , where $g$ are clumps

Fig. 3.


IRREGULAR BRAIRDING FROM EVEN REGULAR furbow-slices.
of too many plants, and $h$ straggling ones too far asunder. But in reality, the seeds having been deposited at different depths, the plants will present greater irregularity of height than is shown in fig. 3.

But when the land is ill ploughed, the case is still worse. Fig. 4 shows the irregular mannes

## Fig. 4.



1LI.FLOUGHED IREEGULAR FURRUW-SLICES. in which the furrows are placed by bad ploughing.

Bad ploughing is attended with bad consequences at all seasons, in forming the seed-furrow for any kind of crop, but particularly for a cereal one, inasmuch as irregularity of surface cannot be' amended in this by the cleansing implements in future operations, as might be the case in a green crop. Seed sown on the irregular surface of fig. 4, where $a$ is a narrow deep furrow, $b$ a shallow one. $c$ a large one of ordinary depth, and $d$ one having a high and steep side, will be covered in an irregular manner, as is shown in fig. 5 , where some seeds are clustered together and covered in a shallow manner at $a$; others also clustered, but Fig. 5.


## IRREGULAR DEPOSITION OF SEED ON ILL-PLOUGIIED

 FURROW-SLICES.buried deep, at $b$; whilst many are scattered irregularly at different depths, at $c$ and $c l$. It is obvious. from such a deposition of the seed, that the braird must come up in a very irregular manner, likely to affect the future progress of the crop; for we have only to look at such a braird to be convinced that the plants have not all the same chance of arriving at maturity at the same time; and, if a crop does not mature alike, the grain cannot be alike in the sample. In fig. 6 , where the seed Fig. 6.


IRREGULAR BRAIRD ON ILL-PLOUGHED FURROW-SLICES.
was sown very deep, it will produce plants that will come up late, as at $a$; while that covered in a shallow manner will send up plants early, as at $b$, which will push on in growth when the weather is favourable, and get far in advance of the late ones at $a$. The remainder at $c$, coming up in a more regular manner, will form the best part of the crop.

Drill-sowing.-One evident advantage of sowing with a drill over a broadcast machine, is the regular deposition of the seed at one depth, whatever depth may be chosen. Fig. 7 represents the seeds deposited at regular intervals, from $a$ to $a$. The figure is supposed to be a cross section of the

Fig. 7.

regular derths of seed by drili.-SOWINg. ground, as also of the seeds in the lines of rows as
sown with the drill. The braird is shown also in cross section from the drilled seed in fig. 8 from $c$ to $c$, where the plants seem all of the same Fig. 8.


REGULAR BRAIRD FROM DRILL-SOWN SEED. height and strength, and their produce may reasonably be expected to be of the same quality. What makes drilled seed be certainly retained at a uniform depth is the harrowing of the land into a smooth state before the drill sows the seed.

## RAISING DUCKS.

The duck, though a very valuable fowl, and usually commanding a high price in our market, has one great objection, which is that they are unmerciful gormardizers, and are difficult to raise. The eggs are generally incubated by hens. In situations remote from water they rarely do well; their propensities being acquatic, and standing water essential to their health. Where there are ponds or streams the duck is probably as profitable as any fowl; they are very prolific, and their eggs are preferred by many to those of hens.
Meat is essential to the duck $\frac{1}{m}$ dry situations. Where they have free access to ponds, they feed on various reptiles, and species of the acquatic grass which they find beneath the surface, and which is a very excellent substitute for animal food. When insects are abundant such as grashoppers and the like, they require no supply of meat, as they obtain a sufficiency of animal food themselves; but when this is not the case, they must be furnished liberally or they will assuredly die. Potatoes boiled and well mixed with meal makes an excellent article of food for the ducts. They become fat when fed on it, and when in preparation for market is perhaps the best food that can be given to them except meat. Young ducks require great attention. Their voracious habits often induce them to eat to repletion, and many die quite young, from no other cause than pure stuffing.-Ger. Tel.

Minds seen on Mountains.-As uponá mountain you get a new and extended view of the surrounding scenery, so you there obtain fresh insight of the hearts and feelings of your companions. The soul seems to expand in the vastness and sublimity of the prospect and exhilarating air, as the night-closed petals of a flower open to the influence of the morning sunshine.

Thers is in every human countenance either a history or a prophecy, which must sadicn, or at least soften every reflecting observer.-Coleridge.

Affection or love is what constitutes the life of every person, for whatever the affection is, such.is the man.

Grast Ploughing Matoh betrean Soarborough and Vaughan,
Fior a Purse on fllog .
The notice which follows having been written by one of the eliturs for the columts of a cotemporary journal, is copied from that paper :-

This second trial of skill in the ancient and important art of ploughing by the same competitors, cane ofl last Friday the 25 th April, in a tield belonging to Georyc Miller Eiq. of Markham. The day was brilliantly line and the atmosphere warm and summer-like and the number of $\mathrm{s}_{2}$ ectators equalled, if not exceeded, either of the two former oceasions; bein-s estimated at four to sis thousund. Our reader, will tesullect that the finst match of this series twol place in Pickering between Scarborough and Whitby in the spring of 194.9, when the former was deelared the wina.s. Fast year the Tuwnshi ${ }_{2}$, of Vaughau chalienged scarborough, whem une latler ardin phoved victurions, and the challenge was repeated the year whin a liteo result.

As on the two provious occasions, the number of ploughmen on each side was tweinty, and the ploughs used were invariably made of aron, on the approved and well known principle of the Scotch swing plough; indeed several of the implements employed were imported from the celebrated manufactory of Gray; the remainder were made by different partios in the Province. At the first competition in lickering, we observed a few wooden ploughs, which, however, have not appeared in subsequent contests. Of the general superiority of the Scotch swing plough, when competently managed, their can hardly be two opioions among practical ploughmen.

The work done on the present occasion, presented, perhaps, no very decided improvement upon that of last year. Yet whether viewed as a whole or in any of its details, it must be acknowledged to posssss ver great merit, and would be considered highly creditable in the first cultivated districts of the mother country. The state of the ground was scarcely so good for the purpose as that for last yeat, and we observed that some of the ridges or lands, were not of uniform convexity, a circumstance of course unfavourable to a perfoct result. There was, as heretofore, in the Scarborough work a distinctive and uniform style, if wo may be allowed the expression, which gave it a distinctive character; the furrows were not only even and strairgh, but they wete laid at precisely that angle which meets the eye most advantagcously. The Vaughan ploughing, although much of it excellent, and none of it bad, lacked that characteristic as a.vehole; and we.very much doubt whether the Vaughan ploughmen had previously practiced with any thing like that unity of purpose, which was so evident in their oppononts. The ploughing on both sides must be considered good enough for all practical purpoşes; and we consider the objects of honorable competition in regard to these two Townships io be, at
least for the present, accomplishod. We see no likelihond of any good resulting from a repetition of the challenge, for several years to come. In the mean time, let other Townships enter the Jists; for it must be acknowledged that theso contests have already had a most beneficial influence on the cultivation and productiveness of the coun'ry.
The following are the names of the ploughmen, with their origin and descerit. All aro considered Canadinns who lonrned to plough in Canads whether they were born here ọ: in Europo.
scarboto thodghimit. Wm. Weir, Scotch.
Jolm Crone, Canadian Scutch Descent.
William Hood, Canaitian, Scotch Descent. Inmes Weir, Scotel.
Walter Hood, Canadiann, Scotch Descent.
Andrew Bertrum, Scotech.
Henry Mason, Canadian, English Descent.
Arch. Thompson, Canadian, Scotch Descent.
Gieo. Burke, Canadian.
Thumas Crune, Canadian, Scotch Descent.
Johni Wakefiold, Canadian,
English Descent.
Robt. Patterson, Scotch.
And. Browning, scotch.
John Crawford, Scutch.
Jas. AlcCowan, Scotch.
Jas. Patterson, Scotch.
John Patterson, Canadian,
Scotch ilescent.
Geo. Evans, English.
W, Madioison, English.
John Weir, Scotch.
vavahas ploughyen..
Peter Frank, Canadian, Gcrman Descent.
Wm. Wetherspoon, Scotel. Samuel Aussleman, Cisnsdian, German Descent. Walter Däizell, Scotch.
Jas. Soracruille, Scotch.
William Burton, Canadian, scotch Descent.
William McNair, Canadian, Scotch Descent. Compbell, Canadian, Scotch Desient.
Jos. Frank, Canadian, Ger man Deecent.
William Keffer, Conadinn, Gorman Descent.
James McNair, Canadian, Scotch. Descent.
R. Ihompson, Canadiar, Scotch Descent.
Dun. Mauhewson, Scotch.
G. Charelton, Canadian, English Denceat.
Duncin McClair, Canadian, Scotch Descent.
Geo. Smith.
Arch. Mchititen, Scotch.
Henry Whiso, Canadian, German Doscent.
:llexunder Muir, Camadian, Scotch Descent.
The following are the names of the Judges.
Julars for Vaughan. - Benjamin Jenainge, King , Wm. Lawson, Markham ; Joshua Clark, Pickering.
Judges for Scarboro'--Robt. Ea,. Toronto; Jolin Gibsox, Markham ; - Weir, Reach.
Earh of the competing townahips ehoso one umpiro: and casting lots for the third, it resulted thet Scarbors chose the third umpire. Their names are,

Umpire for Vaughan-Mr. Leask.
Uinpires for Scarboro-Archibald Cameron, Tororta, William Watson, Whitby.

A substantial dinner was prepared by Mir. Armstrong of Markham Village, to which the ploughmen and 4 or 5 hundred peisons sat down after the contest was over. His Excellency was expected but did-not honour the peccasion by his presence. Col. E: Thompson President of the County. Agricuitural Society sat at the head of the table. The usual regular toasts were drunk, and appropriate music by the band and songs followed. The award of the judges not being finished unill late in the evening the successful competitors wero not topated buf, the "L-ploughpen?" without distinctinu inslead, One of tbeir-number briefly returned thonks. The "Agricultural: Association" waz. replied to by the worthy Secretary of the Associntion, Mr. Buckland. He spoke ol the great good already accomplished by this noble institution and the brighi prospect of usefulness before itif properly sustained by the
people. As a further proof of what could be done by such agencies he referred to the achievements of the English, Irish, and Scutch Agricultural Societics. The "County Agricultural Society" was replied to by the Chsirman, Mr. Thompson, who after pointing out the progress that had been male in anricultural improvemont by County and Township Societies, referred in complimentary terms to Mr. Perry, the member for the Riding, who was the originator of these ploughing matches between townships. F. Jackes, Escl., the Warden of the County, replied to the toast, "Township Societies," and pointed out their benefits. "The Press'" was proposed by the President in a few remarks upon its usefulness, particularly in disseminating information in reference to such performances as had been witnessed that day. Mr. McDougall of the North American being called for, replied. After a brief allusion to the subject of the toast he adverted to the President's reference to Mr. Perry, and stated that he was happy to learn from some members of the Hon. gentleman's bamily that he was rapidly recovering from his late illness. He had litlie doubt, that if no untoward change took place, their worthy and independent member would be able to take his place in parliament on the 20th May or soon after. As the originator of these ploughing matches which promised so much benefit to our agricultural interests he thought on that occasion they could not do less that drink his better health. He begged therefore to propose "The health of Peter Perry - may he soon be restored." The toast was received with three times three. One or two other toasts followed and the company separated.

We understand that the Judges could not agree in their award and the matter was referred to the umpires.

## " KNOWLSON'S COMPLETE FARRIER."

How to choose a horse-cure for a cold ASTHMA, ETC.

We have frequently been asked to publish receipts for various diseases in horses, cattle, \&c., but we have felt a reluctance to do so without at the same time presenting some information relative to the diseases themseives. A remedy that might be good in a particular case, would perhaps be useless, if nut injurious, in another case of a similar kind. We have met with a little work of high reputation-"Knowlson's Complete Farrier," and believing from the plain practical style in which it is written, that it will prove of great value to every reader who keeps a horse, or has charge of that noble animal, we shall publish the whole of it in successive numbers of the Agricullurist. It will be completed by the end of the volume without occupying an undue share of our space. The index will be added, and our subscribers will thus have a valuable book in addition to the one they have bargained for.
Of all the things that the Creator has made for the use of Man, the Horse is the most serviceable. It is also the most tractable, if broken when young ; but if not, it becomes restive and stub-
born. No creature is worse used among the brutish part of mankind.

There are only three kinds of these useful creatures, viz. the Horse, the Ass, and the Zebra ; but by crossing the breeds, many different sorts are produced. You may raise a cross breed from a horse, with an ass, but you can go no further. We cannot learn with certainty from history from where horses came at first, put it is very likely from Asia; although the extensive plains of Africa abound with them, and they run wild in many other parts of the world, where the natives know no other use of them than to eat their flesh.

In more civilized countries the horse becomes more tractable, and then, and not till then, its proper value appears. Our own country may challenge all nations for a good breed of horses, proper for all uses. We have them from eight to eighteen hands high; some as heavy as any in the world, and some very small; some calculated for swiftness, and some for drudgery; and some which are kept for show, and are of little use : but that is the fault of the owner, and not of the horse.

Many of these useful creatures are slaughtered by sinful men, and many are ill treated through that abominable and soul-destroying evil-drunkenness; and these poor animals which are so useful to man, are hungered, whipt, and ill treated many other ways. A horse is agreeable for its beauty, as.well as valuable for its usefulness; but neither of these things prevents wicked men from using him ill. But it is not my intention to give you a history of the horse in this litile treatise, but to inform you how to cure it when out of health.
how to choose a horse.
In my time I have bought and sold hundreds of horses, as well as had thousands under my care when unwell, but still I am at a loss how to give my readers proper directions how to choose orie; for among all the difficulties attending the common affairs of life, there is not perhaps a greater than that of choosing a good horse; nor will this appear strange when we consider the number of niceties attending this animal, with regard to its shape and manner of going, which are so numerous that it would fill a volume to describe them. Indeed, the best judges are obliged to content themselves with guessing at some things, unless a sufficient trial be allowed.

The Eycs are the first things to altend to, and should be well examined, as the best judges are often deceived in them. Clearness of the Eyes is a sure indication of their goodness; but this is not not all that should be altended to : the eyelids, eyebrows, and all the other parts must be consid? ered; for many horses whose eyes appear clear and brilliant go blind at seven or eight years old. Therefore be careful to observe whether the parts between the eyelids and the eyebrows are free from bunches, and whether the parts round the under eyelids be full, or suelled; for these are indications that the eyes will not last. When the
oyes aro remarkably flat, or sunk within their olbits, it is a bad sign; also when they look dead and lifeless. The Iris, or circle that surrounds the sight of the eye, should be distinct. and of a pale vanicgated cinnamon colour, for this is the bign of a good eye.

When the horse is first led out of a dark stable into a strong hight, be sure to observe whether he wrinkles his brow, and looks upwards to receive more light ; for that shews his eyes to be bad.But if yon observe that the dimensions of the pupil are large, and that they contract upon his coming into a strong light, it is almost an infallible sign that his eyes are good.

Sometimes what are called Haws grow on the corner of the eye, and cause the horse to go blind. You may take them out, and although it will disfigure the eye, $\mathrm{yc}^{\mathrm{t}}$ it will be but a litle worse.

In the next place examine the Teeth, as you would not wish to purchase an old horse, nor a very young one for service. A horse has six teeth above and six below, in the fore-mouth, which are called the Cu:ting-Teelh. At two years and a half old it changes two on the top and two on the bottom, which are called the Nippers; at three years and a half it changes two others, called the Scparaiers; at four and a half it changes the Nool 'leelh; and at five years old has a full mouth; when the I'usks, commonly called the Brille-Fungs, rise.

Horse-dealers have a trick of kuncking out the nook teeth at three years and a half, to make the horse appear five years old when only four; but they cannot raise the tusks. At six years old the Noole Teelh are a litle hollow, and at seven there is a black malk, line the end of a sipe bean. Afterwards you will ubserve the flesh to shrink from the teeth, which grow long and yellow.

Horse-dealers have also a method which they call bishoping a horse's mouth; that is filing the tusks shoriet, rounding them at the ends, taking a little ont of the nook teeth, so as to make them rather hollow, and then burning them with a hot jron. I was hired by an Anthony Johnson, of Wincolmlee, Hull, as farrier to a nuinber of horses that wese going to the city of Moscow, in Russia, for sale, and we had a little grey stoned horse, called Peatum, that was seventeen years old, the mouth of which I bishoped, and he passed for six years old, and was the first horse sold, and for $\mathfrak{£ 5 0 0}$ English money! I only mention this as a caution to horse buyers.

The Feet should next be regarded; for a horse with bad feet is Jike a house with a weak foundation, and will do litule service. The feet should be smooth and rough, of a middle size, without wrinkles, and neither too hard and britte, nor too soft; the Heels should be firm and not spongy and rotten; the Frogs horny and dry; and the Solis somewhat hollow, like the insida of a dish or dowl. Such fect will never disappoint your expectations, and such only should be chosen.

Paticular regard should be had to the Shoulders; they should not be too much loaded; for a
horse with heavy shoulders can never move well; and on the other hand, ono that has very thin shoulders, and a harrow chest, though he may move briskly so long as he is sound, yet he is generally weak, and easily lamed in the shoulders; a medium should therefore be chasen.

Be careful to observe the creature's Motions:that the shoulders, knees, and pasterns all act together, and have but one spring of motion, for in that case alone can they be said to move well.

The Limbs should be free from *Splents and $\dagger$ Windgalls. The Kinees should be straight and not bending, or what is called a calf's knee : the Back-sinews strong and well braced: the Pastern Join's clean, and free from swellings of all kinds-; and the Hocls lean and dry, and fiee from $\ddagger$ Spavins, § Corbs and Flatulent Tumors.

The Body or Carcass, shnuld neither be too small nor too large. The Back shought be straight or have only a moderate sinking below the Withers: for when the back of a horse is low, or higher behind than before, it is both very ugly and a sign of weakness. The back should also be of a proper length. The Ribs should be large, the Flanks smooth and full, and the Hind-parts or uppermost Ilauinches, not higher than tie shoulders. When the horse trots before you, observe if his haunches cover his fore-knees. A horse with a short hind-quarter does not look well.
The next thing to be regarded in a horse is F is Wind, which may be easily judged of by the motion of his flanks: A broken-winded horse always pinches in his flanks, with a very slow motion, and drops them suddenly, which may be easily perceived. Many horses breathe thick that are broken-winded; indeed, any horse will in foggy weather, or if foul fed, without sufficient exercise; but if a horse has been in sood keeping and had proper exercise, and yet has these sy'mptoms, there is some defect, either natural or accidental; such as a narrow chest, or some eold that has affected his lungs.

There are other particulars that should be observed in choosing a horse. If his Head be large and fleshy, and his Neck thick and gross. he will always go heavy on the hand, and therefore such should never be chosen. A horse that has his Hocks very wide, seldom moves well, and one that has them top near will chafe and cut his legg by crossing them. Pleshy-legged horsesare generally subject to the Grease, and other infirmities of that kind, and therefore should not be chosen.

[^0]The Temper of a horse should bo particularly attenled 10 ; because if his temper be good, it greatly augments his value, and ir bad, it exposes him to many accidents. It is difficult to discover the temper of a horse without a proper trial, which should always be obtained, if possible. Fear is an impoliment which greatly lessens the value of a lorse; for a fearfal horse endangers both himself and his ride:. Almost every day affords ns melincholy instances of persons being hurt or killed by fearful horses; and many horses are utterly spoiled by accidents that happen from their fearfulness. A fearful horse may be knomn at first sight by his starting, crouchng, and crecping.

A hot and fre'ful horse is also to be avoided, but the buyer should be careful to distinguish betwcen a hot, fretful horse, and one that is cager and craving. The former berins to fret the moment he is ont of the stable, and comimes in that humour till he has quite fatigued himselt; and the latter only endeavours to be forcmost in the field, and is truly valuable; he has those qualities that resemble prudence and courage; the other those that resemble intemperate heat and rashness.

When dealers have had a horse sometime in their stables, they esercise him with a whip two or three times a day; so that when a Chapman yoos to look at him, they have only to stir their hand with the whip in it, and it is hard to say whether the horse be lame or not, it being so fearful of a drubbing, that a good juige may be deexived.

A horse that goes with his fore-feet low is very apt to stumble; and there are some that go so near the ground that they stumble most on even road; and the dealers, to remedy this, put heavy shocs on their feet, for the ineavier a horse's shoes are the higher he will lift bis feet. Care also should be taken that the horse does not cut one log with the other. A horse that goes near the ground will cut the low side of his fetlock joint, but one thit goes high cuts below the knee, which is called the speedy cut. A horse that lifts bis feet high generally trots fast, but is not the easiest for the rider. Some horses cut with the spurn of the foot, and some wath the heel ; but this you may soon perceive by their standing; for if a horse points the frunt of his foot inward, he cuts with the spung, and if oulward with the $h: e l$.

These lew instructions may be of use in purchasing horses; but I advise every one to get some experimantal knowledge of them before he trusts to his own judgment, for the dealers have so mainy atts to hide the defects of their horses, that the best judges are often deceived.

## - COLD.

This is such a common disease, that many people look upon it with indifferece ; but there are feiu Uisorders incident to horses, which do not more, or less derive their arigin from a Cold. But, as only tnose who are used to horsos can te!! when
they haye got this disease, it will bo necessary to describe the nature of a cold, and the usuad symptoms that attend it.

Causes of Colds. These are various; but the most usual are, piding the horse till he is hot, and then suffering him to stand still, ex;osed to the cold air; removing him from a hot stable to a cold one: (if the horse have been high fed, and clothed, the cold contracted in this matuner often proves very violent; and this is the reason why horses often catch a severe cold on their first coming out of the dealer's hamds: ) neglecting to rub him properly down, and to rub the sweat carefully of when he comes in from a journey; and I have known grevious disorders brought on by removing horses iuto a new stable before the walls and plastering were dry. Workmen are often in fault for not leaving air-holes above; as when a horse comes into a new stable, and gathers heat, it will cause the walls and plastering to sweat very much, especially if there are no air-holes left. Nilany a horse has lost his eyes, and some their lives, by being pat into new stables befoio they were dry.

Many farmers and tradesmen get 100 much drink when they go to market, and set off for home, riding like madmen, and call at some public-house on the road to get more of the soul and body destroying evil, leaving their horses to stand sweating at the door, where it is no wonder they get cold. Waggoners, carters, and coal carriers, are also often guilty of this abominable practice.

Symproms. When a horse has caught cold, a cough will follow, and he will be heavy and dull in proportion to the severity of the disease: his eyes will be watery; the kernels about his ears, and under his jaws, will swell, and a thin mucous greet will run from his nose. If the cold be violent, the horse will be feverish; his flanks will heave, and he will refuse his focd. The owners should be very careful to observe these last symptoms, because when they appear and are antended with a slimy mouth, cold cars and feet, moist eyes and a great inward soreness, there is danger of a fever, and generally of a malignant kind. But when the horse conghs strongly, and suorts after it, eats scalded bran, and deinks warm water, is not much off his stomach, moves briskly in his stall, dungs and stales freely, and without pain, hi : skin feels kindly, and his coat does not stare, there is no danger, nor any occasion for medicine. You should, however, bleed him, keep him warim, give him some feeds of scalded bran, and let him drink warm water.

The Cure. If the horse feel hut, and refuse his mpat, it will he necessary to bleed him plentifulty, and give the following drink:-

> 2 oz. Juice of Liquorice.
> 2 do. Salt of Tartar.
> 2 drachms of Saffrou.
> 2 oz. of Honey.

Cut the juice small, dissolve all togother.in hot water, and give it nearly coḷd. Jhiṣ dhink may
be repeated as occasion requires, but let twentyfour hours elapse first. Or give:

> 4 oz. of Anniseeds
> 2 do. Liquorice Root.
> 1 do. Gum Scammony.
> 1 do. Nitre.

Boil these together in three pints of water for ten or twelve minutes; atrain the liquor through a eloth, and add two ounces of honey to it when you give it to the horse.

It is a common practice with Farriers to give a drench of hot nauseous powders, in a quantity of ale; but this is a very bad practice, for it heats the blood, and consequently increases the fever; and at the same time the powders pall the horse's stomach by their loathsomeness. The following ball, commonly called the Cordial Ball, is one of the best yet found out for coughs or colds either in horse or man, and is much preferable to the horse-bal's commonly sold at the druggists'shops, and too often made of bad ingredients. Be careful to get your drugs good, for this ball is of great weth in many disorders, both in racers, hunters, and road horses. Few things will remove a congh or a cold, or clear a horse's wind, sooner or better. Mr. Markham recommended one something like it, which is called Markham's Ball; but you may depend on it, that mine much exceeds it in value. Take of Anniseeds Powder, Fenugreek, Liquorice Powder, Flour of Brimstone, each 4 oz .; Grains of Paradise, in fine Powder, 5 oz.; 4 ounces of Liquorice, cut small, and dissolved in White Wine; 1 oz . of Saffron, pounded small; $1 \mathbf{o z}$. of Oil of Anniseeds;
8 oz . of Olive Oil, and 8 oz . of Honey.
Bray them all well together till they come into paste, and if they should be too dry, add a little more olive oil and honey. The dose is about two ounces, and may be given three or four times a day, if needful. These balls consisting of warm, opening ingredients, are of great use; and giver in small quantities, about the size of a pullet's egg, will encourage a free perspiration; but in case of a Fever they should be given with the greatest caution.

It will be of great use to put scalding hot bran into the manger, that the horse may hold his head over it, and receive the steam up his nostrils, which will cause a running from them, and relieve him very much. I have known asarabacea, dried and rubbed to powder, and blown up the nostrils, to cause a discharge ; for when a horse has caught a violent cold, he is often troubled wath a pain in his head, which a good discharge at the nose is very likely to cure. For the same purpose the horse should be warmly cloathed, aspecially about the head, neck and throat; as it has a tendency to promote a running at the nostrils,

By this simple method, with proper care, hot mashes, and warm water, most colds may be cured; and as soon as the horse begins to feed heartily, and snorts after coughing, an hour's ey;ercise every day will greatly hasten the cure. If the legs swell, and the horse be full of fesh, rewels are necessary.
a cough, and astama.
Among all the diseases to which this noble creature is subject, done has given more perplexity to Farriers than a settled Cough; indeed it too often defies all the attempts of art, and the horse frequently becomes Asthmatical or Brokenwinded.

Causes. The causes are various. Sometimes it is owing to colds imperfectly cured; sometimes to pleuresies, or malignant fevers, which have left a taint upon the lungs or other vessels; sometimes to small eruptions in the glands, which cause the lungs to be much larger than they ought to be, and a quantity of phlegm, and mucilaginous juices to stuff up the glands and branches of the windpipe; and sometimes fleshy substances engendered in the blood vessels; for all thess things hinder a free respiration, and exnite a cough.

It is of the utmost importance to distinguish one kind of cough from another, and this makes the disorder so hard to cure; for it cannot be cuied till the seat of the complaint be found out.

If the cough be of long standing attended with a loss of appetite, wasting of flesh and weakness, it denotes a Consumption : and that the lungs are full of knotty, hard substances, called tubercles. When the cough proceeds from phlegm and mucilaginous metter stuffed up the vessels of the lungs, the flanks have a sudden, quick motion, the horse breathes thick, but not with his nostrils distended like one that is broken winded; his cough is sometimes moist, and sometimes dry and husky; before he coughs he wheezes, and sometimes throws out of his nose or mouth large pieces of white phlegm, especially after drinking, or when he begins or ends his exercise; and this discharge generally gives great relief.

Curf. If the horse be full of flesh, take from him a moderate quantity of blood. The next day give him scalded bran, and in the evening the following ball:-

1 oz . of Powder of Anniseeds.
1 do. Liquor:ies Powder.
1 drachm of Coloniel, eight drachms to an ounce. Work them into a ball with Barbadoes tar. Give this ball the last thing at night, and be careful to keep the horse out of wet, and from cold water the next day. On the next morning give the folm lowing purge :-

> 1 oz. of Barbadoes Aloes.
> 1 do, Castila Soap.
> $\frac{1}{1}$ do. Powdered Ginger.
> 1 drachm Oil of Anniseeds,

Bray them togetherin a mortar, with a little syrup of buckthorn to make them into a ball, which is to be given in the morning ; and plenty of warm water, and walking exercise, till it be wrought off. (It will not work the first day.) In three days after give six ounces of the Cordial ball in a Ilttle warm ale, fasting, aud to fast two hours after. Repeat the Calomel ball, physic, and cordial ball six days after, in the same manner as before. Let the horse's hay be sweet ${ }_{q}$ and his manser-meạt
scalded bran, with a spoonful of honey in each feed:-let him have walking exercise in the open air, but be careful of wet and of cold water.
When this course has been pursued two or three times, give two or three ounces of the cordial ball every morning. The above method will remove most Coughs, but if it fail try the following:

1 oz. of Gum Ammoniacum, in fine porwder,
ido. Gum Galbanum, in powder,
2 drachms of Saffron, brayed.
2 do Assafetida, in powder.
Work them up with honey, or Barbadoes tar into one ball; roll it in liquorice powder, and give it fasting, and to fast two hours after. This ball must be given every mornang, for six or seven times, before it eat have a fart trial; tut if the horse be not a good one it will be thought too expensive. In the cure of this disease, the diet shoulu be very moderate, the ustal quantity of hay should be abridged, and sprinkled with water, and the usual allowance of corn and wate divided into several portions; for with these regulations in diet, the disease will soon be cured; and where it is incurable, the horse will be so far recovered as to be able to do a great deal of work.
It way not be improper here to add that some young horses are subject to coughs when cutting their teeth, and their eyes are also affected from the same cause. In these cases always bleed, and if the cough be obstinate, repeat it, and give warm mashes, which are often sufficient alone to remove the complaint.
When young horses have a cough that is caused by worms, as is often the case, such medicines must be given as are proper to destroy those vermin, of which I shall inform you in the chapter an worms.

## FLAX VS. COTTON.

A subject of the greatest cons quence to Ireland is now engaging the attention of Agriculturists and Manufacturers in the old country. This subject is no less than the practicability of spinning Flax and Cotton in conjunction. Several experiments have been made and have resulted in the most gladdening success.These experiments were made under circumstances to test the diffculties of the process in their most complicated torms. The quantity of cotton used was so small and the result so perfectly satisfactory as to not onfi'give promise' br'a 'argéconsumption of the mixed material, but to hold out the certainty of the cotton being shortly dispensed with altogether, and the flax spun alone. The quantity of the former used in the experiments was so very small as to prave that the latter can be spun into yarn of as fine a thread. By the process already tried-the mixture of the two materials-a decisive saving of 21 . sterling in the pound was effected. This is an important item as effecting the price of all cotton goods. When we consider that the soil and climate of Ireland are peculiarly favorable to the grolh of Flax, such a discovery as this oannot be viewed but as of the vastest importance to her prosperity as a nation. We feel glad to notice any subject which may tend to the advancement of that seemingly doomed country, more particularly when it will directly enlist the industrial and native skill of her people.

The follo wing article on this cubject we cut from the London Morning Cirronicle. It should be read by every farmer in this country, for the growth of such an important article as Flax has been sadly overlooked in Canada:-
"We have great pleastre in tecording some further progress which has been made in the experiments connected with the preparation of flax cotton and flax wool. We yesterday had an opportunity of inspecting some samples of mule yarn, spun upon cotton machinery, composed entirely of unbleached flax fibre.-. It may be remembered that in our earliest notice of the subject we stated that some threadhad been span wholly from flax fibre. The thread so produced was, how ${ }^{-}$ ever, spun from the bleached fibre, which it was supposed would possess greater facilities for spanning, in consequence of its more minute division, than that which existed in the unbleached fibre. The result of the experiments, however, proves that the flax fibre may be spunas easily in the unbleached as in its meached state. The samples of yarn submitted to us werc of a strong and useful chraacter, apparently equal to about 16's cotton, and, considering the nature of the machinery employed, might be considered very creditable to the spinner. So far, therefore, as the expersments connec:ed with the spinning of the fibre are concerned, they may be considered as having now been brought to a successful conclusion. The flax had been spun into yarn in the proportion of one halt, twothirds, three-forths, and four-fifh flax, and the remaining portions cotton.

Yarns have also been spun from the pure flax fibre, in the bleached and in the unbleached state upon the existing machinery, and with the most complete success; thus demonstrating to the lette: the accuracy of our statements made some weeks since, that it was practicable to spin flax, either alone or in combination with cotton, upon the existing machinery.

Some samples were also yesterday shown to us of prepared flax suitable for spinning in enmbination with wool, with the cloth woven from this mixed material. The cloth from this mixture has been wover, as wide as 54 inches; and in order to test the "felting" properties required in this very extensive branch of our manufacture. The cloth exhibited to us was piece-dyed the wool taking black, and the flax a light slate colour; it was of excellent quality, and no doubt exceedingly durable, while it is evident that, woven in the proportion of half flax and half wool, the price at which it could be sold would be considerably less thon that of cloth formed entirely from wool.

In connection, however, with the yarns produced from different propartions of flax and cotton, it became a matter of considerable importance to ascertain how far yarns composed of two materials originally differing so widely in their character could be made capable of being dyed in a uniform colour. To persons ignorant of the complete change in the character of the flax fibre brought about by the process of M. Claussen it would appear imposible to ataun this uniformity of colour; and it was no doubt owing this ignorance of the mode of treating the material that Prufessor Calvert in his lecture recently delivered before the Society of Arts on the bleaching of flax and cotton, ventured to assert that it would be imnossible ever to bring them to act in harmany together, or the one to be used as a substitute for the other.
In order to insure a perfect uniformity of colour, in these mixed yarns, it is of course necessary to treat the flax in such a manner as that it will reciain precisely the samerich and opaque colour as would be imparted
to colton, and, from the difierence in the structure of the fibres of the two piants, it is nivious that the saune materials wonld proluce different ahades of colour upon the two substances. The mode of treating the flax fibre pursued by M. Claussen, which we stated a lew d ys since, thit of destroying its "vlindrical character, and changing it into a cotton-like substance, completely obviates this dificulty and renders perfectly easy that which would otherwise have been impracticable vis, the imparting an qual and uniform colour to yarns formed from a mixture of the two substances. As a practical proof of this, several bundles of yarn spun from equal proportions of fax and cotton, and dyed in va-ious colo.rrs, have been sulmitted to us, arter the $m$ nst minutc inas. ction has not enabled us to detect any of the diff? cases of shale or colour which might have been erpected in yarns compnsed of two such different materials. As a proof of the perfect enmmand which M. Claussen passesses over the materinis with which h? deals, we may state that some s-mples were also shown to us of yans spun from the pirm flax film, prefred to mix with silk, and dyed in colours possessing a!! the beillianey and lustro peculiar to those of that material.
Whatever improvements may yet be made in the preparation of these materials and in the various detais required to ensure peife ton, nothing now remains to be dune, so far as the pronciple of adaptiny flax to cotton on wool machinery and of dying the yarns or fabric is concerned, and we sit. cerely trust that our agrieculturist3 will not neglect tie immense market which these discoveries ate cuicuated to open up for any amount of flax which they may produce. Flax may be grown upon almost any soil ; all the objections that are previously entertained against its growth, on the ground either of its exhaustive character or the difficulty of ils preparation for maiket, are now removed; and it has been proved to demonstraton, by Mr. Warnes and numerous other agriculturists in England and Ireland, that it is a highly remunerative crop.
With respect to this demand for the arti le we need only say that one th msand tuns of cotton are required daily as food for the factories of Manchester, and if but one-half of that ennrmons demand can be supplied by flax, the produce of 2,000 acres daily, or $703,0: 50$ annually, will be required, while not less than 500,000 acres are wanted to furnish the quantity now consumed in our linen manufactories and which with but a trilling exception, is derived from foreign countries. So far as the manufactories are concerned the question now asked is not, "will the experiment succeed ?" but, " whence shall we be able to get the necessary supply of Hax ?" Several of the leading manufacturers of Manchester and its neighborhood have already expressed their determinatin, to sow large portions of their land and with flax. T"is conduct on their part is well calculated to inspire $c$ mfdence in our agriculturists, and should induce thpm to endnavour to obtain pussession of the new market thus called into existence, before it shall have been occupied by the foreign producer. A supply of the raw material must be obtained by the manufacturer; his mill must be kept at work! and unless some steps be immediately taken in the matter, our farmers will by their supinenoss, have given to foreign countries the same monopoly in the supply of dax lor the cohon and woollen, as they now possess in the linen manufactures of the country.

## FLAX COTTON.

We have seen a specimen of the cotton produced from flax, and it exactly resembles the ordinary cotton only that it appears to be much more lustrous.

Linin as a Substituti for Cotron.-The Maysville, Ky., Post Boy, referring to the recent interest which has been awakened in the public mind by the experiment now making with a view to subslitute flax for cotton, snys:-" We have a sample before us of "flax cotton" which is as white and soft, and fine as any cutton, but of a richer and more glossy silk-like appearance, and which evidently can be spun into very fine yarns as cheaply as cotton. Now this material can be produced from unrotted flax for seven cents per pound! And we know that unroted flax can be procured so that the lint shall stand at one and a half cents a pound, leaving a pretty wide margin for the preparation to bring the material to se ven cents. It is known that there is tu olject in growitig colon for a less sum, so that it is far fiom being an impossibility that linen may yet be produced as cheap as cotton.
We understand that the inventor, Dr. Leavett, and his associates, are making their arrangem-nts to bring out their inventions promptly and sigolously; that they throw them wide open to the public, and afford every facility possible for the establishment of linen factories, by contracting to furnish the machinery as expeditiously os possible, at tair prices, and with such guarantica as the safety of the manufacturers will require. They propose to put out different parts of this work in different machine shops throughout the country, east or west, near where the factories are to be builf, as is fiequently done with cotton factories, so that as hitle delay as possible may be occasioned in getting factories into operation.

We also understand that they are now in negotiation with several companies who are prepating to go into the business.-Cin. Gazelle.

## Strong Vitality of some Varieties of Weed-

 Sef.ds.-A correspondent of the Al. Cultivator says:-The garden which I orcupy had been neglected before it came under my care in the autumn of 1842.There was in it a small triangular plat, of less than two square rods, surrounded by gooseberrics. This 1 found covered with the yellow dock. It has now been under cultivation for cight years, and has occasionally been decply spaded. It think it fully within the limits of truth to say that I have destroyed upon it three crops of young plants each year; and the end is not yet.The fact obvionsly is, that each year of culturation has throw'n up seeds hat had previously lain too deep cast and removed from the air to germinate. All seeds have not this strong vitality. Corn and beans deeply planted will speedily rot, but potatocs and peas will grow from any depth at which they ever become buried by the deepest cultivation.

Let farmers beware how they neglect a crop of weeds under the impression that adutle exira pultivatiun, the next year, will make up the difference. It may be so with some varieties, but with many it will not, as they will discover, to their expense and sorrow, in long. subsequent years. Query? Who has experi: mented on this subject, and will give the public a to. ble exhibiting the different vitality of weed-sceds.

## Effects of Railroads on Agrictlitural Pro-

 Ducrs.-The effects of railroads in modifying the ag: riculture of different sections, is illustrated by the example of Massaehusetts. Since 1840, about 800 miles of failroads have beenंlaid in that state. According to the returns of the assesshrs, it appears that the number of horses in the state, has incieased from $60,030: \mathrm{in}$ 1840 , to $74,060 \mathrm{in} 1850$. . This is remarkable, especially when we consider the fact that the railroads havodisplaced many lines of stares on which numerous horses wore pmployed; and it shows also that the increase of business occasioned by the railroads, gives employment to an increased number of horses. From the same returns we learn that cattle have increased from 278,737 in 1840, to $299, \mathrm{COO}$ in 1850 , while in the same perind, sheep have declined from 343,390 to $179,-$ 537. The produce of wheat has declined from 101,173 bushels to 28,487 , while Indian corn has increased from $1,775,073$ bushels in 1810 ; to $2,295,356$ bashels in 1850.

An Agricultural Convention composed of delegrates from the various county agricultural socteties in Massachusetts, was held at the Siate-House in Boston on the 20th of March last, for the purpose of taking measures in regard to the improvement of agriculture. Hon. M. P. Wiflder was chosen president, and addressed the convention in relation to the object f.r which it biad been called. Several other addresses were made, and a series of resolutions reported and adopted, one of which recommended the establishment of a Central Board of Agriculture to be composed oi delegates from the various agricultural societies of the cominonwealth -the Board to meet semiannually or oftener, and to rectmmend to the societies measures for action; and to consider all subjects pertaining to the interests of agriculture. Another resolution related to the establishment of Arricuitural Schools in the state, in whichit was held to be the duty of the government to aid; and the last resolution suggested to the legislature the propriety of reserving the proceeds of the sales of the public lands belonging to the:State-" from and after the period when the Common Schnol Fund shall have reached the maximum fixed by the act of 1834 -for purposes of education andecharity, with a view to extending that aid and encouragement to a system of agricultural education."-Al. Cultivator.

Improvement in Drill-machinfs:-Animprovement in drill-machines has been made in England, by which a sufficient quantity of water may be deposited with the seed to ensure jts germination, even in the driest time. In many instances this may be of much importances. It olten happens that sowing must be deferred, after all preparations are completed, of else the seed'must be put in the ground' with more or less risk ol its failure. Sometimes there is barely moisture enough to swell the seeds without fully developing the root and blade, and if it shrinks under these circunsstances, it will seldom start again. By wetting the soil, as is said to be done by this drill, so as to bring up the plants quickly, all this risk may be avoided, the crop may be sown without any delay, and may frequently be forwarded considerably from what it could have been if sowing had been delayed till the earth. was pooptened by rain. Fior root-crops especially, this will be of much advanrage. The same machme also frops ashes, bone-dust, guano and other finemanure, in the drill with the seed,

The strong men usually give some allowance even to the petulance of fashion, for that affuity they find in it. N̦Napoleon, child of the revolution, destroyer of the old noblesse, never ceased to court the. Faubourg St. Germain; doubtless with the feeling that fashion is a homage: to men of his stamp:

True charity consists in the performance of every duty of life, from the luve of justice with judgment:

## Gorticulture。

## HORTICULTURAL MISCELLANIES.

[From the Culivalor.]
Black Knot on the Psuar.-Benjamin Hodge, of Butfalo, N. Y., who lias raised and sold trees for the last thinty years, says he has never had this malady among his plum trees till the present season, and that in the instance cited, it was introduced from the bast. One case was with two trees which came from Buston; in another mstance twenty trees out of sume hundreds receized from the eastern part of the State were eflected; and a few trees grown from scions received from Massachusetts were attacked in the same way.

The Victoria Regia.-Accering to Spruee's royage up the Amazon, this remarkàle plant, growing in water, has leaves four fect in diameter, which increase to eight feet during the rainy season. It is even assented that some have attained twelve feet in diameter. So great is their size and so perfect their symmetry, that when turned up they stiggest some strange fabric of cast iron just taken from the furnace; its color, and the enormous ribs with which it is strongly barred increasing the similarity. At the exindition of the London Horticultural Society last summer, a fower with two leaves of this plant vere exhibited, the latter measuring cach fice feel ten inches is diameler.

Early Second Crop or Grapes.-The Gardiner's Clronicle states that at a late summer's exhibition of the Lundun Horticultuial Saciety, which closed on the 13 th of 7 mo . (July,) "t there was a bunch of Hamburg urapes, perfecily colored from Mr. Wilmot of Isieworth, which formed part of a erop ripe upon vines that were loaded zeith ripe fruü lasi February !"

Otv Forest Trees.-We once counted the rings of a large tulip tree at the newly cut stump, in Western New York, which we made out ninety years old at the discovery of America by Colnmbus. This tree was 121 feet hirh. The pines at the west in the Pacific coast, which attain such enormous dimensions, have in some instances numbered nixe hundred rings. Such a tree, consequently, would havo served as a bean-pole it the time of Genis Khan, and was a tall tuweriur forest tree of two hundied years duing the conquest of Tamerlane.

Large Orchards.-Dr. Kennicatt states in the Iforticulturist, that eighteen miles above Peoria; Ill., Isaac Underhill has five hundred acres irt orchard. He has in the last two years planted out 12,000 grafted apple trees, and 7,000 peach trees.

Stir mie Sonj.- The greatest horticulturist, almost, of the present day, says:-

If I had a 'call' to preach a sermon on gardening. I should take this for my text: stir the soil.

Hard to suit afle.-At the American Congress of fruit growers, in 1848, a fruit committee of nine persons prepared a select list of fruit worthy of general cultivation. Although many hundied sorts of the pear have born fruit in this country, all perhaps pronounced 'excellent' by the nurserymen who sold them, yet there were only two that the fruit committee could unanimously agreo upon to recommend, namely the Seckel and Bartlet.

Deep Soil and Deep Roots.-A. J. Downing says: "I have seen the roots of strawberries extend five feet down into a rich soil; and those plants bore a crop of fruit five times as large, and twice as handsome and good, as the common product of the soil one foot deep."
Crocus.-There are upwards of one hundred varieties of this vernal flower in cultivation, attended with universal success. They delight in rich soils, and may cither be planted in beds or rows, at least two inches deep, and six inches from row to row. They seldom require removal; every three or four years will be sufficient. They can be purchased at seventy-five cents to two dollars per hundred, according to quality. When they ate done blowing, the foilage should not be removed till perfectly decayed.
Phuning.-It is said that the donkey first taught the art of pruning the vine; man being merely an imitator on seeing the effect of cropping the points of the young shoots. It is not always the greatest wisdom to originate, but to turn to good account whatever by thoughtful observation comes within our reach.

Luck witir Trees.-We have noticed that certain men always have much finer peaches and pears and plums than most of their neighbors, and are called lucky. Their luck consisted in the first place, in doing everything well-taking what their neightors call foolish pains-leaving nothing unfinished: and in the second place, in taking good care of what they had; that is, giving their trees wide, deep and mellow cultivation, applying manure when necessary, and especially the liquid manure from the chamber and wash tub. Great pains taken, whether with fruit trees or with children, scarcely ever fail to produce good results.

## plant shade trers.

The subject of transplanting shade trees to ornament our yards and streets is one of general interest, and we hope the following remarks may be deemed seasonable, and serve to incite to action in the matter. In country and city, they add so much of health, beauty and convenience, that all who may, should seek to extend their benefits.

We do not now intend to say any thing of the kinds best adapted to the streets of villages, the door-yards or dwellings, or the road sides of the country, but there can' be no great difficulty in getting any where those varieties which experience has proved to be the most durable, orna-
mental and useful. Judgment and taste should be exercised in this matter, as in all others. With those trees that put forth their leaves earliest should be mingled those that part with their foliare latest, so that we can see the first buddings of spring and the last verdure of autumn. The locust, maple, beech, oak, linden, willow, chestnit, and many others are all well fitted for this purpose, and may be safely used.

It is to be hoped that the residents of all our cities and villages, who have not already done so, will not allow the season to pass without at least making a commencement towards rendering more beautiful their streets and walks by setting out appropriate trees. The expense and lakour attending this very desirable improvement are so trifing, and the benefits resulting from it so general, that all should engage with enthusiasm in the agreeable work. It has been truly said that there is nothing that makes home more attractive or that is more pleasing to the eye of the stranger, than the trees that decorate the door yard or the way side, and cast their cool and refreshing shade over the weary in the full tide of a midsummer sun. It is in such places that the traveller seeks rest, and at that hearth there must be peace, when beanty makes so pleasant the path that leads to it.

How much better is it to have finely shading trees along our walks to lure to their spreading branches those little warblers whose songs we all love so well to hear, than leave them without these cheap, but very useful ornaments. Let there be an abundance of shade trees-there is little danger of their being too many. No dwelling should be without them. The happy influence which a general improvement in this respect would have, will a thousand times repay all trouble it can cause or cost.
It would be well if each one would do this much for himself and villags-to plant a tree and so take care of it that it shall grow and live. If the planter of it cannot always repose under its shadowe, somebody else may, and who would not leave some cherished memorial behind a witness to the kindly emotions of a noble heart, showing that it was not wholly unmindful oi the happiness and wants of others.-N. Yorker.

## IRRIGATION OF GARDENS.

From repeated experiments we are induced to draw the conclusion, that next to manure the great prime mover in successful culture, there is nothing more important to vegetable growth in many cases, than irrigation. Practical gardeners, in countries far more moist. than our own regard it as indispensable, and a large share of their success depends on copious waterings.
Some interesting instances, which have recently occurred may be worth stating. Two rows of raspberries stand on ground in every respect alike, except that one receives the drippings from a wood-house and the other does not. The watered row is fully four times as large in grow th as the other. Again-the berries on the bushes of the Fastolph and Franconia raspberries weré, at least twice as large when-the soil wae kept moistened, as afterwards when allowed to become
dry; a repelition of the watering again doubled their size. Again-a near neighbor, who cultivates syrawberries for market, and who uses a water-cart for irrigating the rours, raised at the rate of one hundred and twenty bushels to the acre, on common good soil by this means; and he noticed that where the cart was lof standing over zight, so that the water gradually dripped from it, for some hours. upon a portion of the plants, the iruit had growa to double the size of the rest in twenty-four hours.
It should be observed that these advantages of a copious supply of water pertain chiefly to small or annual plants. The roots of fruit trees being larger and decper, are to be supplied with moisture in a different way; that is, by a decp, rich, mellow soil, kept moist by cultivation, or by covering thickly with litter.Water applied to the surface rarely descended so low as the roots, and only harden the soil to a crust.-2ib. Cult.
Irrigation of gardens should always be accompanied with some soluble material suited to the requirements of the plants. Rank feeders, like rasphrities, will be benefited by a solution of night-soil, guano, \&c., \&ce.Mercersburgh Weekly Journal.

## ciroogina a wife.

An article lately appeared in the Religious Recorder on this subjest, and contains some peculiarly happy and just remarks, which we cannot forbear to transfer to our columns, for the good of all concerned. Excellent as is all the advice offered, we trust our fair readers will agree with us, that the best of the whole is the conclusion:
It is desirable to have an intelligent companion. I do not insist that your wife shall have what is understood by the term "an education." There are many who have that, who are about as intelligent is barbarians. But seek for one who is in the habit of exercising her intellect. Who reads, and reflects, and has on inquisitive mind.
It is desirable to have-a wife wha is domestic A street spinster, a gadding news-carrier and busy-body, is the last woman who should have a husband. A ysung woman, who is more fond of gossip and company abroad, than of domestic duties, is nct fit to be married.
Be not anxious to get a wife who has riches, If this runs much in your miud, I shall be sorry for the woman who has the misfortune to becume your wife. If you make this a paramount consideration, be not surprised, if you find yourself yoked with. woman who has not many personal qualificatiops that are to be desired.

When you have obtained a.good wile, see that. she shall be cqually secure of having obtained a good husband.

Thin Mement of the Dead.-It is an exquisite ond beautiful thing in cur nature, that when the heart is touched and softened by some tranquil happiness or affectionate feeling, the memory of the dead comza over it:most powerfuly and irresistibly. It would almost seem as though our better thoughts and:sympathies were charms, in virtue of which the spul is enabled to hold some vague and mysterious intercourse with the spirit of those whom we dearly loved in life. Alas ! how offep and how long may those patient angels hover above us, watching for the spell which. is 80 seldom uttered and so soon forgotten!-Dickens.

To Correspundrets - R. S, London-Your com. munication bas been received, and we hops in ateend to your cnquiries in our next.

## IMPORTANT TO

## FARMERS AND CADDRNERS!

THE Subscriber is prepared to supply in auy quantities to suit purchasers,

## GROUND BONE FOR



It is quite unr ccessary to state here the superiur qualities of Ground Eme over any other kind of Manure, especially for turnips, as it is well known to all practical agriculturists.

PETER R. LAMB, Near the Toronto Necropolis, East of Parliament Street
NB. All Orders or Cummunications lell at Mr. r . Lailey's Clything Store, Kitg Sirect, or through the Post Office, will be punctually attended to.
April, 1851 . 33-3m

## AGRICUL'IURAL SEEDS.

JUS'T received and for sale by the Subscribera
Blood Red Mangle Wurtzel,
Yellow Turnip,
Spring Vetches,
Superior Sugnr Bect, equal to Mangle Wurtzel for feeding catllo,
Turnip Bect,
Whito Delgium Fiold Carrm,
Purplo 'Top'Swedo Turnip,

| Skrringa do | do, |
| :---: | :---: |
| Laings. do | $\mathrm{dog}_{8}$ |
| Yellow Aberdeen. | do, |
| Whita Globe | do, |
| ${ }_{\text {Early }}^{\text {do }}$ Stont | do, |

A general assortraent of Fresh Engiish Garden and Flower Seeda.

ONION SEED.
A few Barrela of FiNe l.arge red onion med, for sale by
lyman brotiters, \& Co.
Toronto, Aprit 18t, 1851.

## FLAX SEED.

100
BUSIIELS FLAX SEED of $n$ buperior qualios: and cleaned. expresaly for agracultural purposes.

LYHEAN BROTHERS, \& CG
CANARYSEED.
25 Barrels

1. YMAN BOTIERS, \& Co.

St. Lawrance Buildinge,
Toronto, 1st May, 1851.
Tйテ̈́nzo.

## DOMESTIC ANIAXALS AT AUCTION.

TiIf postponed yearly sale of Fulis Bred Shorthoris and Mrproved Diary Stock, consisting of nbout fifly head, will come off at my farm on Truesdny, June 24, 1851 nt 12 o'clock, M. I $^{\text {I siall sell all the improved }}$ Diary Swck which is composed of the finest Short-11orn, with a slight cruss uf Amsterdam Dutch, which some writers sny was part of the original ingredient which com posed the improved Shurt IIorns.
I am now breeding the Short-IIorns, Devons, and Ayrshires, each seperately and pure, which oning to the limits of my farm, make it necessary to confine myself to those three breeds. By the awards of the State Agriculcural Suciety, hie Aureruan lastitute, and my own couniy Society, [with the exception of hast year, when I was not a competitor at either,] it will fully appear that I have been a very sultecensful cxhibitur. The cow which nun the linor l'aus. as a milher, at the Anerican institute last year, was bred by me, ard composed of the above alluded to Diary Stock. Several or the Bulls will be of the mustapproprate ange for efficient service fur the comarn season. All cous and Hecifurs vid envugh, will be warre.ted in calf nt the day of sale, by my imported Butl - ho Lurd Ery hulate" or my celebrated Bull : Iamartine."

I own two through ired Devon Balls, one the ceicbrated old Majur, hiw uther, vane and a half years old im ported by me frum Deronshire. Onte of the above animals will be sold-which one, I have aut as yet deterninèd.

A full catalogue, with the pedigree of each nnimal, will be published in due time, with minate description of sale, sec.

I also ha ro a number of Sufflk Sows, in pig to my imported Boar, must of the progeny of which will be old enough to dispose of on that day,
1 also have abuut 20 Sputh Down Ewes, most of wheh 1 imported irum the flock op Jonas Webb, and now in lamb to nupurued Buck "Bubraham." Seme of their Buck Lambis will be uffered at auction on that day.
This sale will not only offer an opportunity to obtain Swek from my previous Herd, but will also enable persons to procure calves from my imported Bull, lambs from ny y imported Ram, and pigs from my imported Boar-all of whinh anmals wero recently selected by mo in person, when in England.

The mode of warranting the Cows and Heifers in calf, is this. in case they prove not to be so, it shall be optionnal with the purchrser, on his certfficate of the fact, either to receive from mo sos (say twenty-five dollars,) or to send the cow to my farm, and I will keep her the proyer tume (frec of expense) to have her got in calf w ether of my Buils, which he shall choose. I will give $\$ 25$ for any heifer calf from either of the Cows or Hetfers sold at the sale, delivered on my farm at two weeks old.

Stock purchased to be sent a distance, will be delivered on shup-board or railroad in the city of Now York, free of risk or expense to the purchaser.
Persons living at the south, in a climate to which it nould nut be well that stock should not be transported, at that hut scason of the ycar, may let such animals as thoy may purchase, remain with me until the proper sea. son, and I will havc them well taken care of, and charge only a reasunable prico for their keep. One of my objects in breeding improved domestic animals, is to assist in distributi: ${ }^{5}$ through hut the Enion, decming it one, if not the ranst importhnt fenture wo fromote profit to the caltionang of the scil, and to boncfit lice consuming welaity at large.

All cumnuncations through tho Post uleass prepay, nod I will preyay the,s answers, and alsu a Catalugue if required. Catalogues will bo to bo had atall the principal Agricultural Warohouses and offices of tho principal $\Lambda \mathrm{g}$ ricalbural Journals, on and after tho lst day of June nexh

Persons wisling to view the stock at any time will find my superintendant, Mr. Wilkinson, to give them the desired information when I am not at home.

Dated this 4 th day of March, 1851 nt Mount Fordham, Westchester County, eight miles from the Cly of New York, by Harlem Railroad.

$$
\text { April 2.-3t } \quad \text { In G. MORRIS. }
$$

lostscrapt.-I decline selling any Stock by privato sale, so as to offer the public all the animals I have to part with without having any proviously selected from the herd and all animals offered will be positively sold.

## (iREAT S.ILE OF SUPERIUR THGROUGII BRED) SHORT HORN CATTLE.

The subscriber having more stock, than he can well sustain on his farm, will offor at public Auction about 30 head of his improved short horn cattle, consisting of Bulls, Cows, Heifers and Heifer and Bull Calves, on the $26 \mathrm{th}^{2}$ day of Junc next, at his his farm 21 miles from the City of Troy.

It is knuwn to breeders of improved Stock, in this country, and in Canada, that the proprietor of this herd, during the past 12 ycars, has through the medium of importations, from England, and sclections from the best heris in this country, spared no expense to rear a herd of Cattlo from which supcrior animals could be safely drawn, for improvement and crosses upon other herds. His importations have been derived from that eminent breeder, the late Thomas Bates, Esq. of Kirklearington Yorkshire, England, which herd it is well known has recently been disposed of at public sale by his administrators, and dispersed in man, hands, and can no longer be resurted to as a whole fur inpruvement. The announcement of that sale created great interest, and all short horn breedcrs in England seemed emulous to secure one or more of these animals, to mingle with the blood of theis own herds, and at the day of sale, there was found assembled the largest audience ever before witnessed upon a similar occasion, numbering as was said from 4000 to 5000 persons, and among them the best brecders in England, and several from other countries some of the anj. mals hringing prices that seemed incredible to many.
In the herd now offered for sale will be included, the Imported Bull Duke of Wellington, and the premium Bull Meteor, these are Bates's Bulls, and their reputation as stock getters are two well known, to need any comment. I am however authorized by Lewis F. Allen of Blach Rock, one of the most preminent breeders in this country, and who has had ample means of forming a judgment, that in no instance to his knowledgo had these two Bulls been bred to short horn Cows of other herds, proviously imported into the United States but what the produce were superior in general qualities to such herds.

Tho most of the stock which is now offored for sale, has been bred from these two Bulls and the proprietor, having a young Bull more remotely connected with that portion of the herd, he retains (being about 14 in number) can spare theso two valuable Bulls. There will be in the stuck uffered for sale, 6 yourg Bulls from 8 months wo abuut 2 years old, in addition to the two named above, and the remainder of the stuck will be compused of Cows, (must of them possessed of extraordinary milhing qualures) Heifer and Heifer Calves. It is believed that no herd of nhor horns lase ever been offered for sale in thas country, exhibiting more of the valuable combinations of qualitas which contributo to mako up perfect anmmals. A catalogue cimetanimg the pedigrecs of chese animats, will be ready for delivory at an early period in which the terma of the galc will bo particularly statc. A credit will bo given from $6: n 8$ months. Gentlemon aro invited $t o$ as. amino tho herd at their convenience.

GEORGE VaIL.

Troy, near Albany, New York.


[^0]:    *There are four kinds of Splents, viz., the Bond Splent, the Blood Splent, the Osselet, and the Horn Splent.
    $\dagger$ Windgalls are soft Tumors, seated on either sides of the Fetlock Joint,
    $\ddagger$ There are two kinds of Spavins, yiz., The Blood Spavin which lies in the joint of the hind leg, something like a Windgall, going quite thru ch the joint, and is then called a Thorough Pin; and the buan -payin which lies just below the joint, on the inside, and is, called hy deaters n Dry Knot, or Jack.

    5 A Corb lies on the back side of the hind leg, near thelower part of the joint.

