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VOL. III.
TORONTO, JUNE, 1844.
No. 6.


Agncultuto at the greas art wheh overy government Wght id protect, every proprictor of lands in prsu ther, und -rery 10 qquirer into nature improve."-Dr. Johnson.

## TORONTO; JUNE, 1844.

MONTHLY GALENDAR.
Your summer fallows now demand your earnest attention. If the land intended to be fallowed be foul, wath witd grasses and noxious weeds, the first ploughing should be carried very light: a four-inch furrow would faciltate the decomposition of the roots of the grasses, 10 a much greater degree than if it were ploughed deeper. It is bad economy to cross-plough before the inverted grass is thoroughly decayed. As soon as athe land is in a fit state for this work, which genes rally happens by the middle of July, it thould be executed wath a strong paur of horses, a strong plough, and a still stronger and moro willing heart, on the part of the hardy ploughman. We tmean, that, on all lands where the Wheat plants are apt to receive injury from winter and spring frosts, the subsoil should be brought up to the surlace, by deep ploughing, and thus a consistoncy
wou'd be given to tho black rogutatio soll, which would, uhimately, cunstatute it the very best quaitiy of sund for wheat. Deep plonghing, especially fur wiatos wheat, should tee the order of the day with those fatmers who have been unsuccessful di-ing the past fow yeuts in growing this crop to porfect maturity.
On the subject of leading manure for your fallows, reason the case, in the same manner that a skilful physician would, in adninistering medicine to the human species. If the land be aiready abuncant in vegetable substance, the manure must be thorouglily rutted belore applied to the soil : if, on the contrary, it be deficient in vegetable matter, long barn-yard manure whaghten such solls, and, in most cases, will be of great benefit to the intended crop. In general, barn-yard manure should be applied to the soll for the ciop which precedes the Wheat crop; but, if applied for the latter, it should bo thoroughly rotted in the manure-heap, before beang suread upon the land.
The employment of liquid manare, though but hule known on this continent, is very extensive on the coniment of Europe. It is, from long experience, an admitted fact among the Belgian farmers, that there are no manures so powerful in their operation as those which are liquid.

Shthught dabour is luigh, in propurtion to he valuo of $p$ ruduce, get the mater of making at operamen wihh liquid manura is northy of attentivn. Tanks may bo very cheaply cunstiucted, fur securing the drainings of the bara-yards and stables, and a simple portable pump could. bo used, fu. conveying it into the water carts: the latter should be constructed and used something after the manner which is prartived in watering the strects of our cities.

This a good time to clean aud drain waste lands: every acre of intervile land thus brought itto culivation is worth two actes of up-land.

Now th the time to make an experiment with marl About six good waggon loads per acre will prove a liberal dressing. The intimate mising with the toil is best produced by its heing spread in small heaps over the firld, and left lying thus until it enmmenecs to foll to preces 3 then it should be broken still more with-dungforks, and strewed evenly about with a shovel. It should then be left quiet for somo time, after which it should be harrowed; then the field should be rolled with a light roller, and again harrowed ; which process should be alternately continued, in fine weather, antil the marl has breen converted into a fine powder; and, finally, it should be ploughed under in dry weather.

## OUR PROSPECTS.

As the is tho Sixth Number of the Third Volume of the Cullivator, and as we have scarcely adverted to the character of the support that has been dealt out to us since the currant volume has been in progress, we conceive it to be our duty and privilege to lay before our friends and supporters a correct statemem of our prospects. Inasmuch as ultimato sucess in the accomplislament of oven more than we anticipated, when we commenced the work, is beyond a doubt, we have reason to be thankiul; but when we take a survey of the benefits that will most assuredly accrue to the great mass of our fellowcountrymen. by and through the mfluence of the gigantic movement that is now in progress, and which has been commenced mainly through the agency of our humble sheet, we are now disposed to make some reflections at the manner in which those efforts have been responded to, by a mention of the very paries who witi, unquestionably, be benefited, to a great degree, whether they patronze our exertions or not. From the commencement of the enterprise, up to this period, not cven a semblance of making jrivate gan has been evinced on our part; as an evidence of which our terms have been gradually reduced to Agents and sucieties, until we can now boast of publishing as cheap a Jourmal as any wher of a similar description published on this cuntinent. Owing to the great seduction of the price :o Agents, the average value of each copy disposed of does not exceed the small sum of two shallugs and siapence per annum. At the pertod when our chance of success was gloomy in the extreme, a number of very influential friends advised us to rase the price to ten shillings per annum: we felt confident trat if we followed the advice that failure would be certain; and, in less that one month from the period allexded to, we announced to our pairons, that, upon certan conditions, this Journal would be afforded for the lowest minmum price; in fact, that the price would be merely nominal, when compared with the merits of the wark. Those conditions were, that each farmer who desired to read a Canadian Agriculiural Journal should, without delay, enroll lis name on the list of some respectable Agricultural Socicty, and use his influence among his circle of friends, to assust in establishing a Township, a District, and a National Agiculural Socicty, we are happy to say that this advice has been followed in upwards of four thousand instances, and that all are becoming satisfied that they are engaged in a most patriotic enterprise, and one that will, ere long, redound to the benefit of their, common country, and to the credit of all who facilitate tis progress.

We feei that we owe a great obligation to our friends, who have so frankly come forward, and alleviated our toils twa conriderable degree; and we can assure them that every possible endeavour shall be put furth on aur part, to recompense
such farmers, by storing the columns of the Cullavator with valuable miormation.

Although the chango has secured an increased circulatoon, still it must not be supposed that we aro making gam by the enterprise ; fur, if tho recepis meet our actual expenses during the current year, it will be even more than we anticipate. At the price at which tho Caltivator is now alfonded, it would requare a circulation of 10,000 cophes to leave a met surporing profit to the publisher. Thes circulation may be had. it those who now sead, and approve of it contents, would exert their mfluence with thers neighbours, and endeavour, as we have done, to adyance the serence, and mprove the practice of Agriculture in this highlylisoured coun.ry. That such exertoons will be put forth by the intelligent and discriminating public we have good grounds for entertainng the behef, and that all parties will unite in promoting the welfare ol the Agricultural interest, there can be no matucr ol duubt.

In conclusion, we would say to all, let Agacultuas improvement, above allother questions, be preemnently the order of the day.

## A NE E WERIES.

A miberal ofter.
The proprictor of the Cultivator begs to announce to his patrons, that it his intention to commence a New Series, at the commencement of the next Vulume. The sheet will be considerably im $_{4}$ roved and enlarged, each number containing thirty-two pages, mahing a ycarly yulume uf 381 pages. The type wall be new, and of an untorm size, and the work, on the whole, wall be published in a sityle that would be highly creditable to much older countries.
As the number of copies on hand of the Second Volume are cunsiderable, and as there is a certanty that the whole of the back numbers of the current Volume will be disposed of to sulscribers before the close of the present year, we feel much pleasure in announcing to our friends and Agents, that five complete copics of the Sccond Vulume may be had for one dollar ; or, a singice cupy for 1 s . 3d. Those sulscribers who have not received the Sucuad Yolume wauid act wisely by embracing this bargain.

As anextra inducement for the organzation of Tuwnship Branch Sueretes, on the plan adupted in the Hume and Mid land Districts, the Proprietor takes this
opportunity to state, that he would furward une hundred full sets of the Secund Volume of the Cultuator to the Secretary or President of any District Society that would engage in the enterprise of organizing Branch Sucieties in the Townships, in conformity whih the glan lefure alluded to.

## AUTILLARY BRANCH AGRICULTURAL SOCIETIES,

As an encollangement to the organization of Township 13ranch Societiez, we would beg to furnish the following list of amounts that the Branch Societtes are to recelve from the funds of tho Home District Agricultural Societies:-

| Whay, | £40 |
| :---: | :---: |
| Fourh Riding | 15 |
| Vaughan, | 15 |
| Markham, | 1210 |
| Tork, | 11 |
| Albion, | 11 |
| Scarbro, | 11 |
| Turonto Township |  |

The amount that each receives is in proportion to the gross amount that each Society has rased by sulscriptions during the present year, up to the period of their last quarterly meeting. It will be seen that the Society for the Cownship of Whitby have far eclipsed the other Socicties in this laudable rare for the encouragement of Agricultural im provement; and to the officers of that Suctety belong a proportionate degree of credit. Let us, for a moment, inquire into the manner in which so great a result has been produced. The first move that was made was probably the one to which the great success must be nilributed. The 'Townslup was latd off into eighteen sections, and the most influential men in each were elected to the office of Direc. :ors. The duty of the Directors was to call upon every indıvidual at all likely to support such an institution, in therr respective sections, and explain the advanlages that would result, were they to form, and become members of an Agricultural Society : and those advantages appeared so apparent, that a large propurtion of the influential and wealthy setters in the Towuship at once enrolled their names, paid their subscriptions, used their influence with their neigh. bours, and immediately part:cipated in tho first-iruits of their investment, by attendiag a most spirited ploughing match and show of stock, held in the Township, and were favoured with the reading of a Journal devoted to the promotion of Agriculture, and published in their own cuuntry.

We were lately in company with one of the principal officers of the Whaty Suciety, who infurmed us that the Managing Cumnatiee were of opinion that a very considerable number of mem. bers would bo added to thetr Society before the close of the present year.
It is an old maxim, and we believe a true one, that similar causes produco similar effects; and as we believe that the great movement that is now in progress will be a means of ultimately elevaung this country to that lugh and exalted statoon that it so richly merits, we would urge upon our friends in the other Townships of the District to follow the noble example set them in Whuby; and whist wo would advise this course to those who have been less successful than
the Township in question, and also to those in the District who have not yel partucipated in tho movement, we would urge upon our friends in other Districts of the Province to follow the example as anon as practicable-liat excellent and praise-worthy example set them by their fellow-farmers of the llome District.
The benefits to be derived from participating in this patrintic movement could not be even fainily described, were we to devote pages to the subject ; suflice it lo say, that, very shortly, a flood of information will burst in upon the Canadian husbandman, through the agency o: Agricultural. Soctetes, based upon the ooundest primciples, which will of itself recompence those who have been foremost in the ranks in aiding in the accom. plishment of this truly great work.

## HOME DISTRICT ploUghing matci.

Tho District Ploughing Match took pince on the 8th ultimo, on the Union Race Course, a short distance east of the cily of Toronto, and was, without exception, the most splendid performance of the kind that we ever withessed. Eighteen ploughs entered the field, and the work apportioned to each was executed in a most masterly manner. It was remarked, on the ground, by several good ploughmen from Britain, that they had attended a number of similar feats of ploughing in the Old Country, but had seen nothing that excelled the work performed on this occusion.
The successful competitors were:First Class.
Let best, Walter Delzall, Vaughan, Ind best, James Sanderson, Scarbro. Second Class.
1st best, Win. Crone, Jun., Scarbro. 2nd best, James Johnston, York.
8nd best, Chas. Shepherd, York.
Third Class.
let best, Alexander Gibb, jun., York.
2nd best, David Monigomery, York. Jydars.
John Torrance, Georgo Weir, and George Harrison.
The Judges retired from the ground before the lots were balloted; and, on their return to the field, for inspection, the greatest possible interest was evinced by the anxious spectators, to ascertain their decision. The Judges themselves, being ignorant of the individuais who ploughed the lots, were also in as great a slate of suspense as the ploughmen and the numerous body of spectators. The President of the Society, W. B. Jarvis, Essq, announced who were the successful competitors, and addressed himself to each individnal, in a manner highly calculated to flatter those who had the honour of being the champions of the day ; and he urged upon those who were less successful to make further allempes at improvement and competilion in this
particular branch, which is acknowledged on all hands to be the rout of good farming.

## AGRICULTUURE IN TIIE SIS'IER

## PROVINCES.

Our readers will, no doubt, recollect, that, on a former occasion, we entered considerably into the detail of the state of agriculture, in the Prosinces of Nova Scota and New Brunswick; and pointed out a number of instances in which the Canadian farmers might take profitable lessons from their brother farmers of those Provinces. It wi!l also, no doubt, be remembered, that the weight of wheat, and other grains in those Colonies quie exceeded uny thing of the kind that we have elsewhere seen on record. 'We have now before us a lengthy report of the Gloucester County agricultural so. ciety, in which it is stated that spring white wheat grown in the Country, by chree different farmers, of the name of Giairn Kerr, Thomas Mellar, and Jolin Richey, equalled severally, per bushel, the extraordinary, and we may add, the unparalleled weight of six/y-eight and a half pounds per Winchester buske?. The heaviest sampla of four-rowed barley, grown in the Country, equalled $56 \ddagger$ Ibs. per bushel; of nats, 461bs. and of white per $68 \pm$ lbs. per bushel. It isstated in the able report, "That agricultural improvement has been gradually, but steadily, advancing, every succeeding year's exhibition, showing a manifest improvement in the weight and quality of every description of grain until the present one, when our numerous stocks of wheat weighing sixty-eight pounds to the bushel, and may safely state the average weight of wheat and barley throughout the northern part of the country to be about sixty-four for the former and fiflythree pounds for the later. The exceltence of our soll is becoming known and appreciated ; cultivation will extend; and in corn, at least, improvement must continue, throughassiduti:y and skill, unilit the weight of our wheat reach seventypounds per bushel, our barley firty-eight to sixty pounds, and our oats forty-eight to fify."

The average weight of wheat in Canada can scarcely be stated to equal 60lbs per bushel; and we venture the opinion, that two bushels for one comes under that weight: If a sample equals 64tus. per bushel it is thought to be somethng very extraordinary; at the same une Canada is emplatically a wheat growing country ; and oy judicious cullure and management of the soil, we see no good reason why as heavy samples could not be grown here as in any other portion of America.
It shall be our constant aim to assist the Canadian farmers, both by advice and example, to equal, it not excel. if possible, the agriculturists of other couniries.

## PEAR TREES IN A DISEASED CONDITION.

A Correspondent advises those whose Pear T'rees are in a drooping state, or when the bark appears dead or shrunk in spots, to cut away all the decayed parts with a sharp knife; and, by being careful to remove all that appears black or discoloured, in a few days such wounds will be thoroughly healed, and the tree cured. Dead branches, that have been entirely or partially destroyed. must be cut off, immediaiely below the decayed spot. In examining the disease, a considerable degree of minuteness must be observed. On old trees the diseased spots are not easily discriminated, but hy probing those spots which indicate thas disense with a sharp knife, when the surface is removed, the colour will show its state. The operation must take place in June.
"Ought Potatocs to be cut or Pluntul Whole $\mathrm{F}^{\prime \prime}-\mathrm{I}$ am in the halic of planting five ut six actes of potatces yiarly, and fir the last two years I have planted the greater part with wholn potatoes, and find they produce as good crops as with cut set, with this advantage, I hase scurcely a potatue misses growing, whereas in cursets I have often had a great liss from dry rot. When taking up the peneral crop, I pick out my seed potatues of a uniform size, each werghung about if oz. I plant them in rows two feet a part, thid one frot in the row, and have had cxceedingly good crops.-Agricultural Gazelle.

Cure for the Gruls.-Make astrong deccection of ise etea, d.ench in the usual way. will to on expel the gicub. Last summer, 1 had n mare that was very sich-the was up and duwn, rolling and cumbling; and, from the symptome, had just reasons to thitik it was the gruby-and, having heard that sago tea was a goum remedy, I prepared a tea end drenchied once, and in a short time the mare was relieved. She did not lie down, and rell and cumble about, afier the cea was given. -southern Cultezator.
An Invention.-The Baltimare Sun says that Mr. James Leggett, of Ladseburg, Frederick county, Md, has just completed thic wotking model of a machine whith is considered by many to be the greatest discovery of the agc. It is the application of the power of the screas to the wheel machinery, whereby the gain of tho power is 80 great that, with a screw welghing from one to ohe and a half tons, a man would be able to propela train of cars on a railroad with as much force and velocity as is now attended by be lccomotive. It occupues but a small space. and can be applied to any kind of wheel machinery. By reason of the infirmitics of age, together wuth pecuniary' embarrassments; be' has been, thuz far, unable to have an effective machine constructed, and his wish now tatocell public.attention to the subjert, in tho hope that'some enterprising persons may be induced to embark in the enterprise.

Rats.-Sceing that you recommend "Nemn" to smear tho holes and passages frequented by rats with arsenical ointment, I bog to state, that as accidents frrquently happen from the use of poixon, perhaps some other method might be acceptable. Slice a number of corks.as hin as sixpences, and hen rosast or stew them in grease, snd lay them in the way of the rats ; theso will prove a delicacy, and will be apeedily devoured; the rats that partake of them will die of indigestion. Another method is to cue a piece $\%$ of sponge into smsill pixces, and fried and dipped, $\_$n honey; these are placed nlong, with shallow pans of water in the nelghbourhood of their holée. By eating the spunge, and then asatifying: the ithifat which it prodoced, their stomachas: becópe zo, dis. tended, that it generally pioves a fataif on

## AN AMERICAN HERD BOOK.

The inconvenience arising from the want of a work of the kind is already greatly felt in the United Stites, and with the rapid multiplication of our herds, is continually increasmg. 'There may now be extmated at least 2,000 thoroughbred Shert IIorn catte on thiss side the Atlantic, destabuted in the hands of perhaps five huadred diffrent breeders. These animals, in most cases, have been selected from among the best herds in Ëngiand, and imported at great expense, and their descendants widely dissemmated into every State of vur Unon and the Canadns. Strict attention has been given to their breeding, and great care bestowed to mamian their original excellence. The climate and solls oi dinerica have proved congenal to their growth and from the rapidity with which they have multipled, and their present comparative cheapness, we may antictpate that but few further importations will br made from abroad. Sull the decided ad vantages conferred upon one of the most important branches of our agriculture by the introducton of the Short IIorns into this country, have distinc.ly established them as a race to be perpetuated in ther purity; and the progressive improvement in American husbandry is a sufliesem guarantee that they will hereafter maintain their exalted character in elevaling the standard of American catile.

So important was it esteemed by the Short Horn breeders of Lingland the establish and record the lineage of their unrivalled herds, that in the year 1802 the first volume of Coates' Herd Book was published, contaning the pedigrees of over 2,500 anmals ; and so strongly has the public mind sanctioned the uthity of the work and its continuance, that three successive supplements have from lime to time been issued, a d another is now in the pres3, embracing altogether a list of probably 12,000 catlle.

In the great mass of these, the American breeder hos litile interest, although from the absence of a domestic record many of our citizens have encountered the inconvenience and expense of transmitting a list of their herds to England for registry. A moments reflection will convince us of the absurdity of a perpetual dependence upon foreign records for the pedigrees of American stock; and the great expense of obtaining the entire English herd book, comprising five large volumes, at a cost of not less than forty dollars, are subjects not unworthy of consideration; add to this the probability of errors in printing the registry at such a distance, where corrections can hardly be made, together with the possession of no greater assurance for the integrity of the records than mny be found at home. and the propriety of atonce establishing an American Herd Book, will be apparent.

A work of this kind has long been agitated by various gentlemen connected with caule breeding in Amcrica; but no
one has hitherto ventured the experment, although earnestly called for by a numerons buly of breeders.

Its demand then being conceded, it remanss to be seen whether the publ.cwill sustain an effiort to accomphish it. It is a lahour involving industry, researchand dechimination; and in its proper restentivn, demanding no oudaniry digreo ol lirmness and ducison in cesintug undue admesions within its pages. It man, phhats, be demed du act of picsumptron in the underugued to asvano turs respousibity ; but he can only answer that sume one must undetalse it, if it be undetaken at all; and having ben a considesabie breeder of Short Horns for many years, and more or lus convorsant "ith must of the priacipal herds of this country, he consulers his observanon and experience, together with a familar acquantance with the volumes of the English Herd Book, somewhat of a guarantee tor the performance. Bo it semembered, however, that the task is not assumed without matase rellection, and after the repeated solteitations of several dislingurhed breeders in diferent sections of the United Stat s; and if pursuod, the co-operation of skillui and expencenced mdividuals wall be rendered. But for the integrity of its execution the undersigaed will be soluly responsible.
As this work is not propused in the anticipation of private gan, so nether will it be expected to involve pecuniary liss. It is theretore necessary to ascertain the extent $0^{\circ}$ encouragement which will be given to a beiore proceeding; and for that purpose the undersigned respectfully asks the publication of this notice by the agricultural press generally In the United States and the Canndian Provinces, for which together with a copy of the paper containmg it, directed to him, he wilt present the proprietor with a copy of the work, if prosecuted.
Ile also requests all who approve the plan to write him, post paid, if by mail, previous to the 1st day of July next, stating the number of animals they propose to register, together with the number of copies they will take. If a sufficien: number of responses are made to encourage the undertaling, the work will proceed ; if not it will be given up. The determination of going on with it will be announced through the agricultural papers as carly as September next, and those proposing to patronize the work will then be notified to forward their respective registers of cattle immediately, toge:her with the necessary evidence of their correctness, that it may be issued as early as the spring of 1845.

As it is not expected that the sales of the book will more than pay for the printing and publication, a small charge for admission will be required, say from twenty-five to fifty cents for each animal, as the number may determine.
Well exceuted portraits of animals, the plates being furnished by theowners, wall bo inserted with the register.

The fill pedigro of each animal will be gwen, running back through its whole ovent in the English Hord Book, if thus iurninhed, together with its referenco numbers, so as to render the American IIerd Book a perfect record of every one's geriealogy.
An index containing the name and reidence of every breeder whose catllo are reg's'ered, will be inserted.

Another index will contain the namo of every anmal, and the pago on which it is recorded.

The work will be prefaced with a full and accurate history of the Short Horn breed of catle, drawn up from the best English authorties, logether with a parteularaccount of their extrnordinary pro. ductons both in the dary and at the shambles.
It will be executed as near as possible in the stylo of an Euglish Herd Book, well baund, and delivered to subseribers at a piee not evcceding threo dollars a copr, either at New York, Albany, or Buffalo, at their option.

> Lewis F. Allen.

Black Rock, N. Y., April, 1544.

For the istash Anerican Colturator.
(continued from the manch numben.)

## CIIERRIES.

Some of the best varieties of imported charries are, the Early. May Duke, the white Heart, the red Mazard or Downer Cherry, the Waterloo, the yellow Spanish, the black Ileart, and the black Tartarian. The common latule red Cherry of the country is hardly worth cultivating, if better can be got, except for planting at our corners, fur the purpose of engaging the birds, and keeping them away Irum the better varieties, for which ti, (as well as the green or wild cherry of the woods, which is also a very ornamental tree,) may be very useful. But stull if it wishes to enjoy a lengthened succession of ripe fruts through the summer, ought to have Cherries of some sort.

## Andrew Whlanion.

Fairy Knowe, MIarch, 1844.

Wash for Freit Trees.-Fou constantly recommend that Furit-trees should bo dano over with lime as a wash. Nothing can look more fright fulthan their glaring conspicious trunks on a hot summer's day ; and to obviate this dit sught I use cow-dung. soot, or wood-a4h, mixed up with urino, the drainage of a dung-mix, or ammonical water from the gas-works, to the cossivency of thin paint. This composition appears to me to possess all the ndvantages of the lime, and the $t$ :anks of the trees appear leesocoed, and allogether much moro pleasing to the eye.

Froarseness.-One drachm of freshly seraped horss radi-h root, to be infused with four ounces of water, in a close vessel, for two hourf, and made into a syrup, with double its weight in vinegar, is an imprured remedy for hoarseness: a les-spmonful has of on proved effectual; a fow tes apoorfuls, it is said, have nover been knowa to fail an remoring boarseness.

## ROAD MLALING.

## TO THE EDITOR OF THE EX AMINLIC.

In your number of the 22 md inst., I natice a communication under the signaturo of a "Subscriber," on the sulj.cet of Road inaking, *here principal olject apparently is, to call public attention to the praiseworthy enterprise, and efforts of a company for constructing a Plank Rond, (asme where West of Toronto, from tho Peacock Inn, to the Albion Ruad. Now while 1 lieve not the alightest diaposition to detract a single Iuta from all the commendation that your correspondent has passed on the beautiful country in the neighbourhood of Weston, and no doubt, the rosd io question, will be of vast importance to the whule purrounding country, (eitherdirectly, or indirectly.) I may be permitted to correct an errur, he has no duabt unintentionally fallen into, and while on the oubject veuture a passing romark on another section of the cuuntry viz, the Township of Whitbr, which I verily believe can suffer nothing, nor need fear a comparison with eny other Tewnship or part of British Ciorth Amprira in reference to its nataral adrartages, in Marbours, Water-pozer, Soil, Climate, Intelligence, Wealht, Inlustry, Productions, Exports und Imports, and which in my burabla opimson will, in a very short timo be the rrach Township of Canada. Suy in loss than the years.
l'be error to which I refer, is, where he remarks " it, (neaning the leacock Plank Road) will ulso aet a good exnmple, the first of the kind in t'e lrovince." Now if there is any merit in setting the first example of the kind, unfortunately correxpondents favourite spot is shorn of that honour, and fortunately for my favourne, the mantlu falls genty on Wuitay. Alore then threo jears ago, a company of spirited individuals, were chartered and $u$ rganiz $d$, who have raised by shares of $£ G J_{s}$ 01. ench, (aut by Guvernment loing, never to be sepand, but by botalide instalments, and expended in ennatructing a plank road 16 feet wide, from ferry's corners on the York road, to that afe and weth khown liarwur IFindsor Bay, und in erecting a large, and commodious whari and watehouse. (which I have nohesuatuon in asserting to be équat. "thot superior to aty in the l'rovince, ) costing upwards of $£ 3000$ and which has been tur more than two jears usucceasful operation, ielding to the enwerprisiog stockholders a dividend of 12 per cent.

Tnus it may be observed; that while your Correspundent in a must praiseworthy manner, passed nown his name for $\dot{f}$ to, to the Peacock Ruad, without regard to a revurn it the shape of present or semote, direct dividends (an example I am sorry to seo so seldum fulloned by thaso who have the means, and ought to be furemost, but who ex. hibit censurable indifference, and apashy in such matuera, ) here the subscribers to the Windsor Road Company are again on the vantoge ground, thes are not only eatited to the merit of being the first, but of exercising a happy and sound judgment in selecting a lecality for operation, which is amply proved by the dividends above mentionga. Nuw stchough I must express my predilection in favour of first making improvements in those locahtes where tho tolls would yleld a fair return for the outlay, - I am not one of those who deny that a caso may not arise, where improvements may be mado, extending vast advantages to the whole surrounding counu, (in an indirect why,) far excoeding the expense of constructing, and jet the wolls fall atort of reimburefig. What I mean is, that if only one improvement is to be undertaken, and two localities presont chemsclves for chosce, I would invariably chose the one must likely to yield an immediate and direct return, for I hold it to bo selfevident that in all cases (in road muprovements) that the indirect return er advantage to the country, is in exact proportion to the direct recoipts or returns.
Now in contemplating the vart and fertile country in the interior for which Whitby is the natural outlet and inlot, it is impossibls to form any ideu of what will bo the busineds or profit of the Windjor Road Company, in a fow years to come, if the
be in 1853 -it is to be recollected that Whitby ns well as the back Townships, are only in their lafancy, it is not over ten or twelvo, years ago, that very hitile was known of Whaby, back of cho main ot York road, at which time one small vessel was capablo of carrying all its exports at one cargo, whilo a return (taken iy tho Cullector of Customs at this port) now bafute me fur 1843, set duwn the value at $£ 44,74610 \% 4 d$. and which from my own hnowledge is far short of the whole emount. The raturn only gives what was shipped from regular warahouses, and even in this, it has omitted altogether tho artile of grass-seed, value say, C500-and it is well known that great quantition of l'otatoes, Oats and Lumber in nhipped from the shores outside the Harbour and Warchouses, and corn and wheat, therefure I conclude if the amornt lad been set down in round numbers at $£ 50,000$ it would havo been much nesrer the mark. It is hardly possible for the mind to imagine what the expurts may in a very short time swell to. If, during the 10 or 12 years passed, $t$ has rade such rapid strides while in comparative neakness what with its present intelliger ce, wealth, otrength and develope neats, it will do in the next ten pr 12 years, is beyond conception.

It is to be remembered, that in addition to its natural advantages above cnumeratad, that (fortunately) several years ago the Hon. H. H. Kiltaly, whose quick and discerning perception of practcal fields and losalitios for improvements, happened to pass through the Townshlp of Whitby and back country, and with one glance saw the importance of connecting ly a portugo road, of only 18 miles distance, Windsor Bay to the navigable wateri of Lako Scugog, and other navigable Lakes connected therewith, extending from 80 to 100 miles through a most pictureeque, healthy and fertite country. He also obzerved that a mont eligible line of road could be got br inching from the said portage road into the fifth concess:on of Reach. through the centre of that Township, and the「ownship of Brock, Thoro, and Mars, to the narrows of Lake Simcoe (where a bridge is now bulding, under the direction of the Board of Worhs,) and from thence through Orilts, Midonta, and Tay, to the navigable watern of Lahe Huron, in Gloucester Bay, from 30 to 40 mles shorter than any other rout, between the lakes, now all those objects are in the course of realization, the woiks at Vindsor harbour ars in a state of forwardness, under the direction of the Boardor Works (happily presided over) by the Hon projector of those vast and uaeful improsements which, when completed, (will all thngs considered) be the best on the Northern shires, f the great Lakes.
The Lock at Purdv's Mill in Ups is completad, which peafects the backwater navigation. The 18 miles portage road is under contract and commenced, and is tu be completed by the first of November. (The platk is on tho ground,) and no doubt the arove mentinned branch from the 5 h Concestion of Reach tn Gloucester Bay, will, in tho course of another year. (if not so made as to warrant puting up Toll Gates.) will be opened and so innproved as to be a good ordinary road for all pracical purposes for some years, nad until the country brcomes more dengely settled (building the bridge at the narrows shows that so much will be done at any rate immediaiely, and is a sufficient guarantee that the branch road is in contemplation)
The abave descripiinn, or rathar facts, are the data on which I predict what will ba the fuwre prospecis, and vast importance of Whithy, and Windsor Harbnur, and a very short time willshow that the nicture is not ourrdrawn, and that even more will be realized than it is possible now to imagine.

When $\{$ commenced this scrawl, it was my intention to throw out some ideas that have occurred to me in regard to the cliespest and bent mode of ronstructing plank roads, but I fear the present lenghth of this article, will exclude its inscrtion, and therefore dare not extend it, if however this finds a favuurable reception I will renume the subject at ome fu.ure period.

I am, youra \&c.,
WHITBY.
PS. The Cultatator, Bunzer, and Globe will confer a favour by copying, and oiler mribis will do no more than'anace of justion to Whithy, by doing the same, particularly those who gives is a
Subscriber an Insertion.
Whitby, 27th May, 1844.

Scours in Calecs.-Lovett Peters, Fiq, in a communication in the Niew England Farmer, says he has tried most of the remedied recommended for this disesse, but has found the fullowing to succeed better than any other. "It is a half pint of cidur, and as much blood, taken from the calf's lieck, shook well together, and given it with a botle."

## CONTROLLING THE HORSE

I'he study of the temper, disposition. and controlling motives of the horse or'the stork, is akin to that of mental philosphy, and when properly understood, assiste in the training of animals, as it does in the education of children and youth $A$ unan once owned a fine family horse who had every desirable quality, except that he would take freight and run athe sight or noise of a drum. 'This rendered him unsale; but the owner loth to part with him, endeavoured to break him of this infirmity. For this purpose, he hired a celebrated rider, who mounted him well armed with spurs and whip, while another was empioyed to beat a drum. The horse as usual was unmanngenble, and the rider rolled his sides with his spurs, and plied the lash must unsparingly. But it was all in vain, all rendered the animal more ferocious, until he became Irantic will fear ; the owner abandoned the hope of ever rendesing lim a safe family horse, and sold him at a reduced price. Ihe purchaser, however, proved himself more of a philosopher. He procured a large drum placed it on end, and covered the top with oats. He then led the horse towards it. The animal, at first, snorted and whilled around with great fury, but by gentle approaches he was at last brought so near, as to snuff the oats. He then cautiously advanced often retreating, but finally becam:s bold enough to nibble a little; and after many sufferings and whirlirgs he eat the whole. The next day tho process was repeated with comparatively litule trouble; and it was re. nowed from day to day until the horso grew fund of a drum, and would run onwards it whenever he heard it beat.-Pro. Olmslead.

## A CHEAP PAINT.

Take one bushel of unslacked lime and slack it with cold water; when siacked, add to it 20 lbs of Spanish whiting. 17lbs of salt, and 12 lbs of sugar. Strain this mixture through a wire sieve, and it will be fit for use affer reducing with cold water. This is intended for the outside of buldings, or where it is exposed to the weather. In order to give a good colour, three coats are necessary on bricle and two on wood. It may be laid on with a brush similar to whitewash. Each coat must have sufficient time to dry befors the next is applied.

For painting inside walls, take as before, 1 bushel of unslacked lime, 3lbs of sugar, 5 lbs salt, and prepare atabove, and apply with a brush.

I haveused it on brick, and find it well calculated to preserve them-it is far profcrable to oil paint. I have also used is
on wood, and assuro you that it will lact' ennsequeneres of intammation, or ose of the lougar on rough s ding than uil paiut wiil on planed siding or buards.

You can make any color you please. If you wish straw color, use yellow Ocire intend of whiting ; for lemous color Ochre color, Lamplack ; for bive, Indi. og: for gresh, Chrome Green. The different kinds of paint will not cast more than one fourth as much as oul paints, including the labour of puting ons.-Ontario Frec. ran.

## ON TIIE DISE.LSES OF IIORNED CATTLE.

[Every man his own Cattle Doctor, containing the Causes, Symptoms, and Treatment of all the Diseases incident to Oxen, Sheep, and Swine, and a Sketch of the inatomy and Phy iologu of Neal Catle : by Francis Cla'er; edited, revised, and almost re-wathen, by William Yuath, authur of the Ilorse, \&c.; with numerous Addrtoons, on the Uso of Oven, and the Improvement in tho Breed of Sheep, Sic., by Juhn S. Shinner; with numarous Culs and llustrations. Philadelphia : Lea and Lhanchard. 18.44.]
A very neat octavo volume, of 251 jages, with the above tit'e, has been semt us, by the palishors. We have perured it with much iaterest, and pronounce it a most valuable work, which should be in tho hands of every Canadian farmer. We know of no belter method of repaying the complument, to the publishers. than by recommending the work to the favourable notice of such of our ciiend. and agents who are in the trade, in the hope that they will tike steps to introduce it into this matket, so that every fartore who feels a pride in devoting his attention to the mprovement of his stock of horned cettle and sheep, may aval hamself of the practical directions luid down in its pages.

By way of adding variely to the information contained in the Cuhtivator, we propose to extract occastunally fiom the woik under notice; and hope that our readers will be benefited, as we have been, by its perusal.

## CII $\boldsymbol{C}$ PTRII. <br> Ingammation.

Inflimmation the the most frequent discased con dition to wheh neat caule aro subject. This may be oning to their pecutar organzation in respect to the four stonachs, in which the tood is complevely prepnred nad dagested, 60 as to yield nill iss nutamen. Thap complazated apparatus was neccessry in the allmmis that were destined to afford us so much hiqud nutriment while living, and gesd at and hrph when dead. and who must theretore be di-posed to an ocea sional redundancy of blood th the sysiem, and consrguen.ly to mifommation.
External mflammation se known by the part being srollen, tenier, and hoticr thoo in its nationt stare In gnrget or downtall of the udder, which is an inf ummation of one or more quarters of the bing, the affected farts ore swollen, tender, and hot.
If this state of the hag is ncglpried, motter or pus will nedahly be formed. Thas is one of he
consequances of intlammation, or one of the
methend ly which the part, end the constitution genmeally are relinved, nod whech is usually denominated the suppuratire process.

Should. however, the downtall be judicionaly treated, tho swelling subsidee, and the heat and tenderness gradually vanisin: the inflimmation in thes case ts said to be resolred. This is most to be wished lior, and whould always be atlempled it inllammatory complanis.
In blark-leg, a disease frequent in young catho, the nflected part loses ita sensibility, and becomes dark-coloured, and 12 osid to be morti fied. It is then epiadily separated, or ought to be separated from tho living portiona around. Morification is usually the result of coilent HAlammation, by wheh the texture of the part is epeedily braken down, and iti vitality destroyed.

External inflammation most frequently pro. cecds irom wounde, or brasee, orother accidents to which catle are liable. These produce different degrees of diseases, according to the severity of the injury ; and when the inflamma. tion runs high, or continues long, it affecto the whole as stem, and brings on lever, or, in wher words, a ccrlain degree of inflommatory action pervades the entire frame.
Externalinfinmmation sometimes resuls from causes which affect the whole system, but the chat misclatif of which is dutermined to parucu. lat parts, from previous weakness in them, or disposition to iake on inflammation. This is the case wuh milammation of the udder of cows, or the joints of young cotile. The whole frame had been exposcd to cold: but the udder of the cow that had lately calved was very much disposed to inflummation. nud tho joints of joung catcle had unt acquited their full strength. In inflammatory fever, also, the infiammation will ect '~ in particular parts, from causea which $\vdots$ is mpossible to explatn, as in the tongue in blain. and in tho hinbs in quarter cvil.

The strilling of the inflamed partis prinripally to be ascribed to the increased quanuty o'blood prseing through it Every littlo vessel is distended by the additional fluid it is compelled to carry; and there is likewise a greater depovition of flud ond solid matter in the cellular texture of the imflamed part: for every serretory vessel rs doing increased dnty in proportion to the blood with whech it is supplied.

In the minute ramifications $\sim f$ the vesaels, the bood is changed from artorinl to venous, and ts white this chango is effecting that anmal heat i extricaied or produced. In inflammation, a greatdual more than the natural quantity of hood is passing through thcse vessels: a great deal more is changed from arterial to venums : and a great deal more leat must necessanly be evolved
The enderness is caufed by unnatural distension of the vesscls, and by their pressuro on the netghtourang parts, and also the pressure of the natual deposit produced ny milammation. The nerves of sensibitity likewite unite very freely with the nerreg of another order that supply the cqumares: nod when tae nerves or the cobillarjes ore irntated, those of sensilility will become urritable too, and the part wall hecome so tonde: nis not to be touched without extremo pain.

Internal Inflammation.
Internal inflammaLion as characterised by oflier and often more indistinct symp oms. We can heic seldom ascertain the heat or tendernese or swelling of he part, and can usually only judge of the complant by tine effect which it produces on the sytem. Every internal infonimation docs, however, soon nffect the system. There is no infommation of any important incernal part that is not quitkly acoonpanied by fever and that fever nind the degrea of it are casily ascer inined, by the heat of the breath and the mouth and the bnse of the born, by the redness of the cye, and the frequency and hardness of the pulse the loss of appetite, and, often, the cessation o rumination.
The symptome of interval inflammation will be rela'ed us the infammation of each part comes befirens.

Whe her inflammation is internal or external, resolution ts io be attempied, or, in other words, the in:nmmat on 18 to be subucd.

When it seizes ony importatal organ, astike brain, lungs, loscels, hidneys, eycs, udder, or toomb, bleeding is oobe innmediately hed tceoure to: and, after bleeding, a purging ditink is to be adminstered: vometimes it is nuceseary to insest a scion in the dew-lop.

In external inflammation from severe bruises, wounds, and other accidente, fomentation it ih warm water, poultices made of hinseed mealwhen they can be applicd-ard the purging drink (Nu.2), give much relief. Jfexternalinfamma. ton is considerable, it will alwaye bo necessary to bleed the beast.

## CII APTER II.

Bleeding, its Utility-and in what Cases necessary.
Bleeding is a mostuseful and powerful remeily in the cure of inflammatory complaints. It lessens the quantity of blood in the resseln, and diminishes nervous power. The following aro the chief disenees in which bleeding is 20. quired :-

1. Whero animals in a thriving state rns themselves until tho hair comes off, aud the spel is covered with a diy scab; while at the samo time the cyes appear dull, langud, red, of inflamed, tho breath hot, and the veirs puffed ap, and considerably larger than usual.
2. In all kinds of inflammntory diseasor, as of the lrain, lungs, hudneys, hovels, eyes, zoomb, bladder, shape, and udder, or in aweling of tio
3. In tho disease called blain, and in which bleeding, not only general tut locel, and local far more than general, thas the hest possible effect, the tumefaction usually almost mmediately sub. soding, and the beast apeedily recovering.
4. When the glanda of kernela between the jaws, or those of the throat, are enlaraed, and eapecially if they are only recently affected, immediate recourse shoulil be had to bleeding, for otherwise the lunge will probally bezome diseased, and dangerous or consumplive hoose will speedily ensue.
5. In bruses, hurts, wnunds npon the head, strains in different parts, and all olfer aceidento that may occur to the anmal, and in which there 18 reason to apprehend consuderablo mflammation, bleeding will be proper.

6 In rinlent catarih or cold, bleeding is cm ployed ; but, ith slight cases, a fow fever drinko will reatore the an mal.
7. The yellows, when attended with feverish symplams, or constipation of the buwels, requires bleeding.

The manner of performing thisoperation is too well known to require any description.

The Fleam is an i strument ingeneral use for oxen, and the jugular or nrek vein is that which is mosily opened. Local bleeding is, however, in many cases particularly serviceable. In
inflamation of the eye, the eye-vein is frequently cut: in foot-balt, we sometimes blecd at the toe ; and in inflammation of the bou ele, or the udder, or eved of the chest, blood is advantagcosuly taken from the milk-vein.
The quantity of bluod that it may be proper to tako away at one time cannot here be deternined: Lut must be regulated by the sizo strength. and condition of the animal, and the discase under which he labours. In many inflammatory complaints too much can hardly bo taken, provided the blecding is stopped as suon as the patient aplears likcly on faict or to fall down A strang healihy beast will bear the lons of five or six quarte of blood, wibhout the least mijiry Larger cattle, that nre attecked whih inflammatory complaints, will prufit by the abstraction of a greater quantly ; seven or cight quarts may be taken away with decided advantge - unt wien it is necersary to repeaf the theeding, the degren of fever and the strength of the beast will regulate the quantity. The blood shonld flow from a largo orifice, for oudden deplesen is far moro powerful in its operation than when the blood is suffered slowly to tricklo down. The blood must nezer le suffered to fall upon the ground, lut should le receized into a ;neasurc, im order that the quantity taken may be
known. No absolute quanuty of blood should icasc a purging drunk must bo ummedrately adminerer be prescribed, but when exicnive bleeding istered, anal repenied every welvo hours, until to demanded, the stream aliouid tlow unil the, the desired effeet is obianned : a clys.er should pulte falurs, or intermite, or the animai beg..as to henre violently, ar theentens to foll, or other circumaisnces show that tho systetin is sufficiently affected. The beast should nil be permited to drink cold water immidiatoly after bleednag, nor 10 graxe in the field: the former has so.netimes induced troublesotne cntarth, and the latier may canse the orfice to op'n again. If thrs operation is perf, rined in the summer sanson, it will be most prudent to ferch the catile ont of the pature towardo evening, in order that they may bo bled; and, after that, to let them stand in the fold-gard all night, and drive them back to the field on the following morning.

## Chapter int. <br> On Phyric.

Furging mediennes operate by increasing the vacution of feces from the bowela, and thus ofien removing a vory considerable source ol irrtation. They ougment the secretion of the exhalent vesests situated on tho internal cont of the intesines, and thus, by producing waicry stools, lesson the quantity of flud circulaung through the system. They divent the aucrensed flow of tho bioou' from the affecied orgun, and determine it to the bowels, which is well eluctdaled in zed water, and they have a peentrar influence on the nervous ajatom, ougmentarg the enorgy of the nerves distributed to the intestines, but diminishing it in other parts of the system.
The chief purgatives in use for neat catte aro Glauber's salis, Epsom salts, Barbadoes aloes, Linseed oil, and Sulphur. In obstmate constipaHon of the buweis, ten or fifteren grams ot the farina of the Croton nut, licestly prepared, may be added with good effect. One pound of Glauker's, or Epsom salts, will purge a tull-szzed beast. Aloes are very properly getung intol disuse : they are uncertam in therr effect. thoy require very consuterablo doses of them to be given in order to act alone, and if they should be , recefved anto the rumen they are apt to disgust, and nauseare the ammel. Halfan ounce, or aix drachme of them, however, may be added to the snlts in part:cuiar discases. enusiderable fever, or the atnok of fever ts apprehended, there is no purg ave so beneficial as the Fip.orn salts. In bad cases, twenty-tour ounces may be given at a dose, and eight ounces of sulphur every six hours afierwards, unul the tuli purgative effect is produced. Linseed oul is rapidty superseding the more cxpensive and the more uncerten castor oil: the dose is from a pint to a pillt and a half. As a mild aperient. and in cases where there is no great dejreo of fever, and a violent purge is not requited, there are few better things than Sulphur. Where nothing else is at hand, and the caso is urgent, Common Salt is no consempitulo medscine: n pound of it dissolved in water will produce a very fair purgative effiect, but it should not be given if the animal labours under fever. The following are the cases in which purgative medtcines are found useful:-

1. I bave known some graziers who, when Peeding old cows (during summer,) have given them a purging drink about ivery six weeks, by way of keeping off tho downfall, which in gener! has had the desirnd effeet, and has eion caused them to fatten moro rapidly.
2. A purging driak is very proporly given to cows soon afier calving, in order to present the nilk feves.
3. Neat catcle are naturally of a greedy and savenous dispusition, and their nppetite is hardity ever satifiec. Midch cows in particular, if fedd ing on herbage, or other food agreeab'e to the r palate, will of hen continue to graze until they are in danger of suffincation. Thus the powers of digeation become over.burdened, and the ammal appears dull and heavy, and feverish spmptome are induced. Purgatives will givo the most effectual relief in these cases, and if the appette does not return soon after the phyate, a cordal ball will be useful in reatoring it.
4. Cows that are turned into fresh pastures sometimes become bound in their body, in wh.ch
be guen, th the first drims does not operale. .
costiveness is accompaned with pain and feverish aymptoms, infommation of tho bowels is 10 bo suspected, and must bo treated accordingly.
5. When red. water is recent, a purging drunk or two will often complotely remove th.
6. In the yellows it is genernlly necossnry to give a purging drink, nad, after that, cordial tonic druks, in order to invigorato the digestive organs
7. When medicines are given to prevent cows from slipping their calves, they are generally preceded by physic.
8. In all inflmmatory complaints, a purging drank should be administered after tha bleeding.
9. If external inflammation, occngioned by woundn, bruises, and other causce, runs high, nad affects the whole sysem, purgative medi. cines are absolutely necessary.

## CHAPTER IV. <br> On Sctoning.

The utility of scioning for the curo of several theares ulicluent to netut cattie cannot be doubred. liere are many tocalates in wheh, tharmers dad not adopt thes precaution, they would lose great numbers ot their young from the black leg.

In some districts the hoose in calves is very prevalent and fatal: where - 118 is the casc they should all be scatoned when they are geating into condition, and beforo they are astacked by the diseasc. This will esther lessen the violence of the complaint or preventit alogether.
In joint cvil, I have frequently inseried a seton in the dewlap with decided goon effect.
Setomng whin be ofien prescibad, in the course of this tratase, in mflammatury complaints . and acts by exciting a new and arificial inflamma this lesseningusuiensily. 'Whaphathly proceeds a tho principle of diverting to another part a ortion ol tho bioou which was determatied to tic organal one, whilo also a new duection is given to a por,ion of tho nervous influence or power whach was concontraied on it. Ithe is cal mixm, that no two violent inflammations, of different characicr, cait exist 112 neighboudiog parts at the eame time; and that in proportion to the intensity of the one the other will bo dumaslied.

By the dischnrge which a seton produces it will likewise rclieve the overioaded vessels of a neighbournig mflamed part.

Morle of inserting a Seton.-The seton is commonly made of tow and horse hatr plated tngether, or cord or cootso topealone, or leather. It should be tolerably thick, and cight, ten, of tweive inches in length. Before ineerting the seton, it should be dipped in onl of turpentinc. Ihe seton beng now prepared, an assistant is to hold the animal, while the seton-ncedle, with the cordafliend to it, is planged into the upper edge of the brisket or dewlap, and brought out again towards its lower cilge: the epace between the wo openings should bo fiom four to e ght incees. The seton is to bo eccured by fastenug a emal p.ecs of wood, or tyang a large knot at euther end of the cotd. Matter will begin to tun the st cond day, and, afte, that, the coidshoulit be drawn back wards andiorwards two or three times every day, in order to riate the paits, and by this means inciease the discharge.

When setoning is had recourse to in inflamma tory comptanis, the cordahould be dipped in the following bistering oinmment :

Blistcring Ointment.-Take yellow basilicon one ounce ; cantharides, in powder, three drachns; spirit of turpentine, two flusd drachms

This ointment will be found to act efficaciously and quackity un suraulating the parts to acuon, and hastoning on the suppurative process.

The root of the common dock forms a very good scton, and one that wall acs specdily and
powerfilly; but the best of all, where a consides able effect isintended to be produced, is the root of the black heliebore. This will very quickly rause considerable awelling as well as difo charge.

## YEAS'T.

We have received three recipes for making yeas', from different correspondents. Une informe us that the fellowing never faila to make light good bread:-Mash about two quarta of inalt in a gallon of boiling water, and let it stand abut two hours, then akim it uff into another small tub, and when it is sufficiently cool, add a tablespoonful of yeast, which will produce a sufficient quantity for a large baking. Repeat whenever yuu wanta fresh supply, always keeping a little of the former goast to make the next work; the process is the asme as brewing. only without adding hups, or boiling the wort. If the wather is very cold it may require to be put by the kitchen fire to make it work. Yeast will fall to the bottom of the tub, besides that which tises to the top. Another states that eight gallons of excellent yenst may be made as follows :-Take ten gallons of water, and half a pound of hops, boll them for two hours, then etrain the liquor into a tub, and stir in half a peck of ground malt, max them well tugether and stir occasionlly ; les it atand uncil Uluvd-warm, then take one gallon of yeast, frum the brewer at first, and afterwards from the remains of your own stock, with two pounds of flour, mix all together, and let it work right hou:a, then stir it up, and strain into a barrel, and keep it well corked. The result will bo about eight gallons, which has on appearance betuenn that of thick beer and thin yeast. The method of using this yeast for the manufacture of 35 stone of bread is as follows:-Buil one and a half peck of potatoes, mash them well and atrain them, add about one and a half gallon of cold water, mix them well togeiher, then one gallon of the above patent yeast, with two pounds of flour. stir up well, and cover down for five hours prior to setung sponge, which will be ready in seven or eight tivurs, according to the weather; great proenution must be used in taking the sponge at the first or aecond fall, in order to get the bread sweet. Tho dough must not be allowed to lie longer than an hour in het weather, but put into tho oven as soon as possible. This wilf be found to surpans any brewer's yeast that can be mado, if properly. used. This receipt is on a larger sealo, and will, of course, have to be proportionably divided for dumestic use. If a smaller quantity bo made, viz, a gallon or two, it will, if in a stone bottle, tightly corked, and put in a cool place, keep good fur a long time. A third communication says:Buil no ounce of hops in four quarts of water until the hops fall to the bottom of the pan, atrain it, and when milk-warm, add six ounces of hour and five of sugar; set the mixture by the fire, stirring it frequently; in 43 hours add four pound of potatoes, buled and brushed fine ; next day bottle the yeast-it will keep a month. Onefourth of yeast, and three of warm water, is the proplution for baking.- [We have tried this, and find u a goud substinute for yeast.]-Gardener's Chronicle.

## WATER-PROOF GLUE.

Melt common glue in the smallest possibla quantity of water, and add, by drops linsead oil that hax been rendered drying by haviug a small portion of hitharge boited nu it; the glue being briskly stirred wien the oul is added.
Give wil resist water, to a considerable extent hy being divolved in akimmed mik.

The addmon of a finely levigated chalk, to a solution of common glue in water, strengthens it, and renders it gutable for signs, or other work that is exposed to the weather.
A glue (or cement) that will hold against fire or water, may be made by mixing and toiling together inseed oul and guschlime. This mixture must be reduced to the consistence of soft putty and then spread on tin plates and dried in the stade, where it will dry very hard. This.riay afterwards be molted like common glue, and must ho used while hoi.-Americau Meckanic.

## (Conlinued from tho April Aumber.)

an kasy method uf manauing bees. in the must prufitable manner to their owner.
Tho abovo is tho tinlo of a neally priated mnnual, Which was latels presented wo us by Mtr. David $\mathcal{L}_{\text {Leflar, of }}$ of Churchivile, Home Distict. Mle. L. informs us that he has followed eut in detail tir. directions of the author, ond his cherta havo koon crowned with success.
If tho Canadian farmers woold turn their attention largely to tho management of Been, the article of hopey would very slaritly becono a contiderable item on our lise of exprorts to Eas:land. Immense quantites of thoney is impurteil yearly into the Muther Country trom Hlonand and other consinentai countries, all of whith might be supplied foom this country if the peopte woutd ont turn their enemion to the busness.

## RULE m .

On Fentalating the Hits.
Graduate the bottom board and vonsilator at pleasure by means of the bution or otherwise, so We to give them sqore or less aif, as olfcumatances may require.
Remarke, - Bees require moro alr in order to onable them to endura the hrat of aummee and the pererity of wlater, than at any other time. If they are kept ous in tho eold, thoy need as murh air in tho wiater, as in tho deat of summer. It in in a mild zetuperature only, thet it is eafo to keep hom from the pure alr. If placed below frost in a tran is contained is their hive at the time they aro burivd, during the whole vinter. If kept in a ologn, dey cellar, the mouth so contracted as to keep ous mice, give them sooush. Bur if thry are kept in the apiary, there olloutd to a slow, Imperceptiblo curions of air corsiantly passing in at the botton and of at the top thriugh the penpilator, to let the excess of animal heat escape in summer, and anso to throw off the vapur caused by the breach and otter exhalations of the beea which caured frost and ice in the hive in winter. and which is frequently the cause ot the death of thp bees.

## RULE IV.

On Prezenting Rolderes.
At the moment it is observid that robhers are within, of about the hive, raise the bottom fonrit so near tha edge of the have as to prevent the ingress or egress of the bees, and stop tho mouth pr common entrance and ventilator. At the samn time, take caro thas a small space on all sudis nt the hivo be left open, so as wafford theen all the air they need. Open the mouth only at evenng to 3et out the robbers, and close early in the mornirg before they renew their atuck.
Remarks.-Bees have a peculiar propensity to rob each other, and every precaution neces sary is prevent it should be exercised by the cultivator. Families in the same apiary are mare likely to co engago in this unlawful enterprie than any others, probably because they aro located so nent each other, and sre mose likely to learn their comparative atrength. I never could discover any intimacy between colonies of the eame apuary, expept when thoy stood on the same bench; and then, pll the social intercourse seems to subsist between the neareat neighbors only.
Bees aro not likely to engage in warfaro and rob each other, except in the spring and fall, and at other times in the season when food is not eastly cbrainad from blossoms.
Beet do nat often engage in robbery in the apring, unjess it is in such biyes as hayo bad their conath breken by frost or otherwise, so as to causo the hongy so drig aown upon the bution board Much care should be ezercised by the apiari-n to pee that all such hives are properiy venniated, and at the same tme closed in such a manner as to prevent the antrance of robbers in the dey timer, until they have mended the breach, so as to stop the honey from runnurg.
Clear water should be givon thom overy day so long as they are kept in coafinement.
I have known many good stocks to be loat in the apring by beigg robbed; und all for want of care Bees rob each other when they can find bur lute

hat deatroyed the gonere, or the weather is no cold ae to prevent their er Uectirg honey truto them. Cold, chilly weather prevente dowere Irom yielding honey, without Irout.
Deten ned but litte air at any time when thes rob; and jet rroro is necesmary for them when corfired by cempulawry areand, than othraiso. Whes deprived of etheir hierty, thity swon become testene, and use therr best efiuta to make therr way out of the live; -hence the Importance of leaving: a manala apato oll arounal the bittom to odentatr and to prevert their moltlyg down, of use a acteen bottons bodrd, which is better.

## RULEV.

## On Equalising Colonies.

llive ono swarm in tho luwer apartment of the hwe; cullect another aharm in a utawor, ant lastrt the same in the clamber of the tare contalaing the lirst. Then if tho swarms are amalt, collect another small sharm in anuther drawer. and Insert the same in tho chamber of the hive whaining the first, by the ende at the second. In - ase a.i the bees, from elther of the drawers, minglo and gubetow with the first swarm, and leare the drawor omply, then it may bo removad, and anoiber small awarm added in the ssmo manand
ner.

Rimarks.-It to of prime Importance to every beocultivator, that all his colonies be malo as nearly equal in numbers and strength, as ponsible. Bivery experieneed bee-masters matot bo awaro that smalt amaths ate of little proft to their owner. Generally, in a fow days after they aro hived, they are gone i-noone can trace therr steps; some suppose they have fled to the woods-others, that they were robbed: but after all, no ono is able to eivo am! sallsfactory account of them. Somo pieces ot combs only are left, snd pethaps myriads of worms and millers ginished off the whole. Then the moth is suppused to be their destroser, but the true history of the case is qenerally the: - 1 he bees become discuuraged, or dishesriened, for want uf numbers to constitute their colony, abandon their tentment, and join with their nearest netghbours, leny ag sheur combs in the mercitess depredanoms of the m th. They are someunes sobbed by the adjuming hires, and then the moths finmbed or Wratroy what is left.

When bees aro collected in drawers for the rurpose of iqualizing colunics, by doubing. \&ic., they bhould vo permated to stand until evering beture they are unted, it betog a mose favorabie time fot them to necumo ouquatnted with each uther by di grees, and the scuat of tho bees in the lower apartment will enter through ito apertures duang the mgtht su much that there is a great de. lee uf sameness an the pecultar smedi ot che two lunce, which takes ofl theat ammosuy, they chance to bave any.
Secmed swanm wro generoly about half as large
as the first, and had ewarins tatit as farga as sezund unces.
Now il socond swarms are dunt' d, so as to make them equal in number wath the first, the ouner avalls himatif of tho advantage of a surorg culung, which will not be likeig to becume distueattened for watit of numbers, nor ovescome by robbers from stronger colemes.
It is tar less trouble, and less expense, for the bec-owner to equaizo his cotomus, than to prepare hoes and drawers of difterant sizes of fit columtes.

When colonies and hive are made as near alahe as puatilice, many evils are avoided, and many advantugas real zed: every bive will fit a phace in the apidly-tvery drawer a hive, and every buttom buard and shlue may in any case be used without mistakes.

Swarm may be doubled at any time before they become so located as to resumo therr furmer huythty, whilh will not be dicuucred bet ro they form a rational ctaracter and aggure sights on property. Heses are provided with a reservorr, of sack, to carry their provision in, and when they swarm, thes go loaded with fruvision sunted io their emergeicy, whah takes off sll their hostaty towards each other; und until these sacks aro ompritd, they ure not casily vexed, and as they are compelled to buid cumbs befure they cato empty them, their contents are retained severat daye. I have doubled, at a fortoight's interval in swatming, with chthe zelsecss. The operation

the farthest fuur days. The sooner it is dost, tho less hazardous to the experiment.
As a general rule. second a warm only abould be doubled. Thisd and fourth owarm sticuld alwaya have their Queens zaken from them, and the bees returned to the parent atock, accoiding to llule 10.

## nut.e PI.

## On Removing Honey.

Insert a slido ender the drawer, so far as to cut If all communtation between the loner apartment and the drawer. Now draw out the box contaming the hoaey, with the stide that in nex: to ut. Set the drawer on its winduw end, a littlo diatance thom the apary, and ravoe the shote, Now supply the place of the drawer, the remored, whan emply one, and draw the first ineerted nido.
Kemarl, - Caro must be exercised in performing thas operation. Tho apertures through the noor in thu chamb, $r$ muat be kept closed by the wide during the process, to as to keep tho beow from ruabing up into the chamber when the bo: is drawn out. The operatur must likewise seo shat tho entrancey into the drawer aro kept covered with the tlide, in auch a manner as to preyens the racape of any of the bees, unless bo is willing to bo stung by them. If tho bees aso permitied to eno cor the chamber in vary warm weather, they will be likely to hold the occupaney of it, and build comb there, which will change the hive lavo one no betuer than an old fashoned box.
I havo sueceeded best in expelling the been from tho drawer, by the following method, to wat :-Shut the windorblinds so as to darken ono of the rooms in the dweltiag house-raise up one casement of a wirdow-then carry the drawes and piace the same on a table, or stand, by the winduw, on its light, or glass end, with the aper ture towards the light.- Nuw remove the slde, and atep immediately back into the dark part of the toom. The bees will soon learn their into conduon, and will gradually leave the draver, and return home to the parent stock; thus leaving the drawer and its contents for their uwner; nut towever until they bave sucked every drop of running honey, if these should chatice to be any, which is lot often the saso, if their nork is fit ished.

There are two cases in which the been manifent some relurtance in leaving the diawer. The first 19, when the combs are it an unfinished statosome of the cells not sealed over. The bees mant, fest a great desme to remain there, probably ta mako their storea more secure from robbers, by affixing eaps to the uncovered cells, to prevent the eflluvia of running honey, which is always th gros: est temptation to robbers.
Bees manfest the greatest reluctance in leavigg the drawer, when young broods are removed in it, which does nut often oce ur, except in such drawers as have been used for feeding in the winter or early in the spring. When the Queen has dopossted eggs in all tho emply colls below, sho somentes onters the drawers $;$ and if empty cells are found, she deposites eggs there also. In eithey case, it is better io return the diawer, which will be made perfect by them in a faw days.
Bers rever make honey, but extract it from such flowers and other substances as yield it without producing any change from its original state. Good honey is taken principally from white clover, orchards, sugar-raapio, bass, and other toreat treets while in blgasom Po r honey is extracted from buck wheat, and low land Aowers, hence those wha would save theur good honey unadulterated by that which is poor, will remove it before the latter can be extracied.
Special care is necessary in storing drawers of honey, when removed from the careand protoction of the bees, in order to preserve the huney from insects, farticularly the ant. A clest, made perv fectly tught, is a good store-house,
If the honey in the drawers is to be preserved for winter use, it should be kept in a room eo warm as not to freefe. Frost crachs the combs, and thp honey will drop as soon az warm wéather com, mences. Drawers should be packed with their apertures up, fir keeping or carrying to market. All Apiarians who would make the most profit trom their bees, should remove the honey as soon at tho drawers are filled, and supply there places sitump'y a nes. The bees vill cempence theif
habours in an emptry box that has been filled sooner than any others. Drawers in old stock, should be turnod se ss to lot the bees into them as oarty lo tho spring as blocsoms aro seen.

## hule rit.

The Mehod of compelling Sicarms to make and keep extra Queens for their Apiarian, or Oioner.
Take a drawer containing bees and brood comb, and placo the same in the chamber of an empty hive, take care to stop the entrance of the hive, and give them clean water da ly, three or four days. Then unstop the mouth of the hivo and give them liberty. The operator must observe Rute aix In using the olides, in rumoving the box from the original hive.
Bemarks.-The proaperiny of every colony depends entirely on the condition of the Queen, when the sesson is fevourable to them.
Every bee-master should underatand their naturo in this respect, so as to enable hum to bo in readiness to supply them withanother Queen when thoy chance to becomo deatitute.

The discovery of the faet, that bees have power to change the nature of the grub (larra) of a Worker to that of a Queen, is attributed to Bonner. But neither Bonner nor the indefatigable Huber, mor ary other writer, to my knowledge, has gone so far in the illuatration of this discovery as to render it practicable and easy for common people to avail themsolves of its benefits.
The Vormont hive is the only one, to my knowtedge, in which bees can bo compelled to make and keep extra Queens for the use of their owner, whithout extreme difficulty, as well as danger, by atinge, in attempting the experiment.
The idea of raising her royal highness, and elevating and astablishing her upon the threne of a colony, may, by scme, bo deemed altogether visionary and futile; but I will assuro the reader, that it la ensier done than can be destribed. I have both raisod them, and supplled destitute awarms repentedly.
When tho drawer containing beos and brood comb is removed, the bees?soon find themselves doatitute of a female, and immediately set themselyes to motik in constructing one or more royal celin. When completed, which is commonly within forty-eight hours, they remove a grub (larea) from the woiker's cell, place the eame in the new-made Queun's ceil, feed it on that kind of food which is dasigned for Queens, and in from eight to sixteen days they have a perfect Queen.
As soon as the bees have safely deposited the grab in the new-made royal cell, the bees may havo their laberty. Therr atrachment to their young brood, and their fidehty to their Queen, in any atago of its minority, is such that they will nezer leavo nor forsake them, and will contunue ell thoir ordinary labours, with as much regularity 5 if they had ajferfect Quecn.
In making Queen's in small boxes or drawers, the owner will not be troubled by their swarming the same sensun they aro mada. There are so fow beed in the drawer, they are unable to guard the ngmph Queens, if there areany from being deatroyed by the oldest, or the ono which escapes from her cell first.
In examining the drawer, in which I raised an extre Queen, I found not only tho Queen, but two royal cella, one of which was in perfect shape; the other was mutilated, probably by tho Queen which came out first. Now whon there are few bees to guard the nymphis it would not be very dificult far the oldeat Queen to gain access to the cells,and destroy all the minor queens in the drawer.

When a drawer is removed to an emply hive. for she purpose of obtaining an extra Queen, it should bo placed some distance from the aplary, the bottor to prevent its being rwbbed by other swarms When it is some distance from other colonies, they aro not so likely to learn its comparative strength. There is but little danger of ats being robbed, until after the bees are out of danger of losing thers Queen, which generally occurs in the swarming season.
The Queen is sometimes lost, when sho goes forth with a swarm, in consequence of being heavily laden with eggt, and too feeble to lly with her colony ; in which case the bees return to their pasant stock in a few minutes. It. fact all occur rences of this kind originato in tho inability of the queen. If ebe returna to the old stock, the
awarm usually comes out the next day, if the weather is fav rable. If the Queen is iov, feeble to return, and the apiarian neglecto to lock her up and restoroher to la. colony again, (which he uught to do,) tho been will not awarm ngain until they havo made another, or aro supt lied, which may be done immediately by giving themany spare Queon.
The Queen is sometimes lost, in consequerce of the young brocd being too far adsancrd at the time of the departure of the ald Queen with her swarm. She may become barren or diapased, and dic of old nge, and all the grube (larea) may have advanced so far towards the rerfuct fly at the time of her death, that their nature could not be changed to a Qumen before the bare had become apprized of het truo condition, or she may bo loat at second swarming, as explained in remarks on Rulo second, or sho may be lost by accident when sho goes out of tho hive into the nir for oxescise, or for the purposo of forming the aexual uniun with the drono; because, on returning to the hive, sho has been known to enter her neighbaur's hive by mistako, and lose her lifo before sho cuuld mako bel escape.
Nots - I think all close observers of Bees will accord with this doctrine, when they reflect upon the fact that tho Queen frequently salliea forth for exercise or for other purposes, of which we see rupeated indications during the breeding season, to wit : the bees assume the aprenrance of the com mencement of swarming : they fly very thick before the bive, and run in every direction on its outside. In short, it would seem that hoatilities had commencod in great carneat betwixt that and somo unknown hive, or that they were in n resl sport Now the bees miss their soversign when these peculiar feats are seen, and on her return,all is quiet.

## RULE VIIf.

On Supplying Sicarms Destituce of a Queen, 2cith Another.
Take the drawer from the hive, which wa placed thero accurding t. Rulo seven, and ineert tha same into the chamber of the bive to be sup plied; observing ruic eix in the use of the sides; -or remove a bux containing brood comb as above described, and the bees will make one fur thum-selves:-or take a Queon frurn any smail suarm and introducas her at the muuth of the hive.
Remarhs-Culuntes desutute of a Queen may be supplied with another the mument it is found the: have nose, which is known only by their actions.

Bees, when deprived of therr temalo sovereign, easo their labours, no polen or becebread as seen on their legs; no ambition seems to actuate their movements; no dead bees are drawn out; no de-
furmed Lees, in the vartuus stages nf their minurity are extracted, and dragged out of therr cells, and dropped down about the hive, as is usual among all heallhy and prosperous colunias.

Colonies that have lost their Queen, when stand. ing on the bench by the side of uther swarms, will sun or fly into the adjuining hive wuhout the least resistance. They will commence their emigration by zunning in confused platoons of hundredy, from their habitation to the next adjoining hive. They immediately wheel about and return home again, and thus continue, sometimos fur several dayr, in the greatest confusion, constantly replenishing their neighbor's hive, by enlarging their Colony, and at the same time reducing their own, until there 18 not a aingle occupaut left; and remarkable as it is, they leave every paíticle of therstores for their owner or the depredations of the moth.
Colonies luse their Quens more frequently during the awarning season than any other.
In the summer of 1830, I lost three good stocks of bees in consequence of their losing their Queens, one of which was lost soon after the first swarming - the two others not many days after tho sceund awarming - all of which manifested similar actions, and ended in the samo results, which are more particularly explained in remarks on Rules two and seven.
The Queen, when lost in swarming is easily found, unless the wind is sostrong as to have bloun her a considerable distance. A few bees are always found with her, which probably verve as her aids, and greatly assist the apiarian in spying her out. She is frequently found near the ground, on a spire of gease, the fence, or any place most con-
venient fur her to alight, when her sirength failo her. I nnre had quite n seareh for her Mnjesty, whthout much apparent nuccess. Ahout tho sams time thern were flying about me a dozen or more cotr mon porkers. At lant her royal highress wat diecorered, concealed from my observation in a fold of my thint-aleeve. I then recurned her to her colony, which had already found their way home to their parent stock.
The Qupen may be taken in tho hand wittout danger, for phe never stinga by desiga; her timidity dianrms her of every apesios of hostility; she may lie drawn in quarters, nnd she will not sting. In trying many expesiments 1 nevercould discover in her, the least hostile feeling, except when conlicting with one of her ewn rpeciea; her only ex. ertion seems to be, to make her excape; and yet abe hise a sting much longer than o wotker.
The Queen is known by her peculine shape, alzn, and movements. She differs but littla in.color fronin worker, and han the asme number of lega and wings. She $1 s$ much larger and longer than any of the bees. Her abdomen is perfectly round, \& is ehaped more like the nugar'onaf, which makea her known to the observer the mement ahe is aeen. Her winge and nrohoacis are ohort. Her move monis are stately and mejestic ; at the asmo time shy, and ralherjanlined to concenl herself from human observatic ; with seeming jealousy of toing cqugh. I have known her to remain il the aif on the uing seversl minutes after her whole colony nero slighed when I stood near tho awarm. Sho is murh leas innize afier the season for breeding is over. She 18 asily aelected from among a awarm at any anason of the yenr, hy any nne who lins often seen her. Cut off the limb and shaiso ho bees on a table to find the Queen.

## Rule ix.

On Mulliplying Colonies to any Desirable Extent, without their Suarming.
The large drawer, No. 1, thould alwnya ba used for this purpose. Insert slides, as in Rule 6, and remnve the drawer containing hees and brood comb, place the same in the chaniber of an empty hive, atop the entrances of both the new and old hives, taking care to give them air as in Rulo 4. Give clean water dnilv, three or four days. Now let the beren, in both hives, have their liberty.
Remarks.-This operation is both practical and easy, and is of prime importance to all cultivators, who wihh te avnid the necrsity of hiving them when they swarm; and yet it will not prevent swarning, except in that part of the divided colony which contains the Queen at the time of their separation. The other part being compelled to make another Queen, (and they generally muke tho or more) may swarm to avold their conflict, as explained in remarks on Rule 2. The hive containing the old Queen may swarm for want of room; but, at any rate, in performing the operation, it has saved the trouble of hiving one sparm, and prevented all danger of their flight to, the woods.
Multiplying colonies by this sule is a perfectly safo method of managing brea.
(To be Continued.)

## RECIPE FOR COLORING BLUE: By L. Ellsworth.

Take two bushels purslin, (Pontulaca) known as "pusley," which growa in our gardens in abundance; add a aufficient quantity of water to cover it when prezsed down into the kettle, and boil until thoroughly cooked; then atrain off the liquor: also one pound of ground logwoud, boiled separately; diasolvo one quarter of a pound of alum in a sufficient quantity of water to cover four pounds of wool or cloth; then boil the wool or cloth in the alum water two houra; then add the purslin liquor and the logwood, and boil two hours more. When the article is first taken from the dye it will have a purple hue, but will coon turn to a handsome blue, on being exposed to the air. The quantity may increased or diminshed The cost is as follows s the above proportions. The cost is as follows :-
2 buahels purdlin, ..... $\$ 000$
1 lb. logwood,
ま"alum, ............... . 02
Total, $-9 .-90,07 \frac{1}{1}$ for Albw, gogds.
o. Ill., Napervillo. Ill., I814.

## [Frow the Baltimore American.]

## SCARLET FEVER.

As this intractable disease, in its most malignant furm, has extenavely prevailed durug the patt winter, and still continueg its progress, in our rity, causing many tears to fhw from agonzed perents, who had their darling hatle onesanddenly anatched from them by its ruthess graep. I would call the attention of those, whose homes have not yet been made desolate by its inroads, to the following prophylatic or preventive measure, which, among practitioners of medicine in Germany, has been used with such eminent success, but which in thin country. I believe, is scarcely known, out of the profession:-

Dissolve three grains of the Extract of Bella. donna in one ounce of cinnamon water (triturated together in a motter) and of this oolution, give three dropa in a lutlo sugar and water, to a chuld one year old, onco day, increasing the dose one Arop for every additional year in the ego of tun pationt. In this minute dose it can do no possiSle Injury, whilat the mase of evidence in favor of Sue sumplete prophylatic power, is conclusivo.
Impolled by a desire to stay tho further progresa of this fatal epidemic, it would sfford ma much retiofection to have the above informanon dissemfnated, and it would be subserving the cause of humanity, to allow it a curner in the columns of jour valuable alieet.

Medicus.
Ealimorb, Marcil 23rd 1844.

## CLEANLINESS.

A. strict attention to cleanliness and eweetness in nur persons, houses, door yards, clothes, and furniture, not only produce a plasing senation to ourselves and all around us, but is alico a means of preserving jur bealh. Loathsome and oven noxious vapors are often generated around dwellings, causing sickness, and perhaps death, for want of a strict attention to cleanliness. All slops and wathes from the hitchen should bo carefully convejed into the garden or thrown upon the manure heap, and never suffered to be merely thrown out at the door, to the annoyance of the family and their visiting friends, nad not unlikely to the lasting injury of their health. Pure water is sought by all as conducive to heath ; bur nir. on which our vitsle am constanaly feeding, is really too much neglected

## POTATO STARCII.

We find in the Clevcland IIerall, the following method of making potato starch, which it saye is the veritsble Arrow-toot, so bighly valued for invailds:-
"Take a dozon lergound smooth menly pota. toes, wash them, ahd then corefully pare off all the rind. Next grate them fino with a suitable zin grater. Tho pulp must be mixed with a palful of cold water, and thoroughy agitased and aquerz. ed by the band or any suithblo instrument, at the anme sime throwing away tho fibrous matter, and perristeise the starch to sink to the botum of the vessel. This must have a freth washing in cold water, till the pure farina is obsained fr from sll other matuer. This should bo spread on earthen dishes, and driad in a warm, airy situszion."
The good houstwife will exclaim. 'Why this is nothing but potato starch.' 'Truo, it is not-nor hare you used a sy other articlo under namo of arros-root, for tho sick members of your famil. though yoo masy have purchased it at the rate of sereral ahillings per pound.
By propir medes of cooking. known 10 cvery nurso and housckeej ef, this articlo becomps a nelightiful bnverago tor inratids weak of digrativo powers ; whilo as a pleasant dietary, cren to persons in giod health. it posscrisos a atoong attraction.-Ameritan Agricullurist.

## Invaluable Salve.-Take three carrots

 and grate them; place in a vessel, cover with ard, without altif convenicm. Boal thoroughly. atriin, and add auflicient bro -wax 2 n nato a pasto. This is a mose invilcable ointment or pasio. for euts, burks, scetds of zeounds of any
## SUi'ERLIOR DUTCH GHEESE.

I'ake sour loppered milk, skim of the cream, then set it over the tire in an iron potbrass is puinonous. Let it remain unal the curd rises, which will be when tho whey is scolding hot at the bottom of the pot; there is a differenco in the heat of the whry ne tnp and be tom. Skim the curd into a buyket, which is best; let it remain six or cight hours to dran, then break the curd (in $n$ table) as fine as $p$ ossible ; after which put he curd lighty in a stone jar, xalting it to tater. Let it reman in the jar, stirring is twicea day with a wooden spoon or round stick, heep at lowse and light, unul it becomes palatable to the taste of the maker. The cherese arquires a disagreeable flavor if kepteol long in the jar. Make tha cheeao into small balls, end set ther in a ceillar. It should not be caten the first few days. and is best favored front one week to tuo weehs old.

Ax Orenge Coumiy Ladt.

Analysis of Soils.-The following is a method of anslysing soris for ordinary A gricuitural purposes:-Wergh e eonventent quantity of the eatith to be analysed, sny 1000 grains dried in tho open air; dry the samo beforo a fire on papar, so na not to scorch the paper; re-weigh, and the diferenco will be the organac matiter. Pour a convenient quantity of muriatic acid on the remainder; when virred and setuled punr it off, and add ovalate of ammonie: the precipitate will be the lime. Mix remainder wuth water, and atir it urll; when a litele settled, pour off tho turbid mixture, and the suspeaded contente are ngillace. nus. and the deposit siliceous.-An Old Sub. scribe".

Turnip Sced.-As the followingmethod of triothg Turnip need has proved very succeasfut in preventing the ravnges of the fly, l have taken the liberyy of sending it to you. A day or two lof faso sowing. put the serd into a sieve and tub of clean water, and rub it quito clean through tho seve, changing the water onco or twite ; dry it in the sun under a wall or glase, or before a fire. A hate four of brimatone mag be mixed with the ared whle atill damp. If the egg of the Turnip fly is commited to the som with the seed, thes is an cfictual prevemar.-A. B.

On Shoring Turnips.-The most approved and now genernlly adopted method of stiring turnps in Roxhurghshire, is as follows:-The zurnips, deprived of thirir leaves and rooss, are luid in oblong heaps, sloping up on boh sides ton point, like a potato pit, and the outside onrs packed cl se werther, and $n$ smooth uniform surface formed. The heap is then covered whath dry atrau 10 the depth of about 13 inches, which is secured nod bound down by atraw ropect. Turnips stored in thes way generally heep well, and are scarcely ever touched by from: Should it be late in aprins before they are used, they are generally some what sprontel, but much Iress so then if they had been pited in the oarth. Of courso tho lengith of the hrap will depend on the quantuy of turnips. The brendth is generally about 10 or 12 lect. Swedes are now generally atored in Nuvember or December.

Pea-strax.-At a lecture of the Rev. Mr. Sudrey, at Acle, Nortolk, tho rev genteman drew attentionto thi waste of Bean ond Pea-stiav It was cet too late. He gave tho analysis of ach as to ritrogen and gluten, which thowed that
7 slbs of Pra straw, and prel 7.lbs of Pra straw, nad prulahly of B-an-itraw also. rqualled in nutriment luobs, of common hay-a fact most important for farmers here, and well known in Scotiand.

Fermentation in .Tanurc-Heap.Wh n a piece of praper, montered with epitrt of sath, or murutic arta, bild over the steams arssing from a dunghill, gives derise fumes, it is a certath teys that decomposition is going wo far ; for this indicates that ammoia is not only formed, but is escaping.-Smith's Produdire Farming.'

Parsnips.-The cultivation of the pare nip resembtes that of the currot in every ossential point. The land should be prepared as ateted last week for the cariot. Espectal rnio shiuld bo taken in this, as in that case, tu havo a dioply-cul. tuated soul. In the Channel Irlondt, whero this root as largely grown, it is cutomery in tho preparation of the land to use the largo irance plough, and bury the manur- - 20 cons per acre of atablo manure-12 or 14 inches deep. This 19 , of coursr, only practicable on deep sula, and it is on such, whether light or beavy. that thas roet flourishen. Parsnip seed may be damped, mixed with sind, just as in the caso of the carrot, and dilled eanly in April at the rate of 41bs. per acre, in rowa on the flat, 18 inchits apart. New seed only should be used. Colonel to Couteur informs us, in the journal of the Enolitah Agricultural Society. that soed sown in 1838 would not vegetate in 1840, though soaked and sown in a greenhouse. The damping of the seed, though we have adventagenusly adopted this plan in tho case of the earrot, for the last three jears, is to a ceriaill extens hazirdous. Seed tr ss sproured, if zown on a dry soll, is hable to be deprived of life. After havirg been thus treated, it must not be sown thl the land is damp. The summer culture of the paranips is juet the same as that of the carrot. An average weight of from 9 to 11 tors per acre is oblained of it in Jerses. We have not had much experience in the field culture of this root, but we are inclined to thmk that hovever superior it is to the carrut in quality, 2.e. per cwt., the superionity in the weight of tho latter crop render the parship infenor to it per acre. Is is mast excellent food f,r cows, imparting a rich flawour to the milk, and it possesses extraordinary feeding properties when given to ruher oxen or pigs. It shoutd be steamed for the later; and when thus treated it is noursthug foed for poultry also.-Agricuitural Gazille.

Precention of Smut in Wheat.-At a Inte nericultural meeting in Suerex, Englard, John E:llman, Esq., related the following account of an experiment in preventing amut in wheat. He took four sacks of smuty whear, sowed one sack of $n$ with brire only, as strong as ho alwiss made u, to lear an ege as large ne a shilling; bo sowed another with lime only; he aowed the third sack wath bine, strong enough to bear an egr, and then les th hy in lime atl right ; and the fourth ho wowed without any thing. The result was as folows: Where the brine only was used, every now and then thero was a muxy car, still nut many; where the lime only was ured, thero mas much ob ut the snmequanury of smut; where tho limo and lisine were used, there could nuz bo found a angle smuty ear ; and where nothing was used, it was a mass dismut.

Effects of Decpering the Soil.-The Liverpool Times pivesthe iollowing fast, illustrating the benefictal effecto of loosenng the snil to a conaderablederth: "There were exhilated at the Evhunge Nichs Room two enormous apecimens of the red beet, of margel wuizel, grown by Mr. Robert Aerlson, ina field on han faren na Halewood. Earl of them weished upwards of 20 lbs . They were rat merely rutuus in themsclics, but remarknblo proofs of the eflects which may be produced on wezntion hy tho decpening of the scil, for tho ground which produced these giganuc roots would certamly have produced dubble the quantity of pnatiess, or of turnips, or of ordinary azed beots, usually grown on an rqual extent of land. Thry Nhow that by deepening the soil, an amount of produce mayber got trom it much greater tisa any oae has jet thought at possiblo to rasse."

An Economical Polish Beveragc.--Into sixty quarts of water put three ounces of elder nowers, five pound of cummon brown suyar, and a quart of vancgar, and one of brandy; if fiso them for three days, sulting them unce every day This beverage, which is mentioned in tho "Aericulrural Jeurnal of Aix," is quise as agroenblo as becr, and costs ten times lear.- Res. Afr. Hort.

## (From tho Amerisan armer.]

## HHAT IS TIIE PROPER FOOD OF WHEAT?:

This is a question much casier asked than saswered; tor though it has been mooted ut intervals from the earliest introduction fof the wheat culture, it never has been sansfactorily answoed, and wo quesuon very much, whether it over will be, so as to render the solution of 12 fonerally arailable; but still we may be able to furm aoravering like an approximate opinion through the aid of the laws of analysis. Byresurtig to theso, we fud what are constisuent elements of the wheat bersy, and hence the inferenco is that if wo can apply substances to the suil containing these elements, of a soluble character, that wo will approach as near as is desirable to furnishing tha appropriate food for the wheat platit. The next questiuns to be consider. ed relates to the quantities of the several kinds to bo applied to the acre! How for climate may eperate to facilitate or retard their nolution? It Se plaia that before tho rootlets can sake up food of a.ny kind, thas it must bo redueed to a liquid or cuecers form, and it is equally plain that hiss condition of the papulurn, from whick they derive thair suppart, can only bo brought about through the agoney of heat, air, and moisture, as while all vegotuble bodies raust undergo decomposition, so muat these of a mineral naturo be reduced by the diasolving action of water. As connected them, - enen with the proper quantities, if the proper kinds of manures could be asertained, the seasons and the climaso oxert most potent infuences; either for good or evil, in the growth of the wheat, or, any ober kind of vegetable prodaction honco what might prove salutary ono year, would be otherwise another. But let us consider now of what wheat is composed. By the analysis of Springle, a thousand.pounde, or say, 162 3rds bushels of wheat, leavo


Thux then, if shis analysis he accurate, and Springle's reputation in fuaranty that it is, the inference is a fair one, that, na the above constituents are to be found in the Berry of the wheat plant, the soil should bo provided with esch and all of the substances cnumerated, cither ingreater or lesser proportions, in order that tho preparation of tho food of the piant mistit be going on In overy soil alumina (clay) and silica (sand) are always present, and form the greater quanuzy of the latter found by analysia, as a coustutuent element, we should infer, that notwithstanding whens is said moss to delight in clay soils, stillithas sand is indizpensible to the fructufication of the gratn Woknow that unless there bo a sulficiency of Potash in the soil to dissolve the silica, and yield it to the plant, that, as a natural consequence, the stem wili lack that ingredient essential to enuble it to stand ercet, and from the ovidenco affirded by the analysis, we should conclude, that ashes. potash, and liene are indiepensible to the sueceasful culturo of wheat, and chat salt would be found on be a valuablo auxiliaty; nor should we apprehend so much dread as is indulged in by some, if the lime used were of the magnesian hinf.
It may be taid, that because we find there vari ous abbstances in wheat, that that is not conclusien proof 12 derises atexcluascly from tho soil. We admit his supposition most freely, inasmuch as we aro satisfied, that a very senniblo portion of tho food of plants is derived from the atmosphere, and that this portion is se well appropriated by the leaves as by the routs; by the laticr process the most, when by the organic remains, or mineral manures used, tha powere of absorption, retentuon and asnimilation, the soll have been accelerated so activity. From the presence of aulphuric acid. wid should tako it for granted that plaster in almnst as essostial to wheat as it is to rlover. We are
ortholox by a very larga description of farmern, who will tell yout, thes plaster incteaves the straw but decreasea the gram. Now we are not sure then this opinion of theirs is well founded, if after the uso of plaster such resule may have bien produced. may it not have sprung from other causes tion the uso of plaster 7 May not the weather, an excess of rain, or nutruve manures have praduced the result, and not the plastor? If the theory of the acuon of plaster, which strikes us as moat rationed be the trun one, ite most essential offico is to husband and dolo out gaseous food, nccording to the wants of the plants, rather than to atmulate them by improvident and too luxurious feeding. If this were not the case, we should thank that the minute quantity required for an acre, would not answer the valuabie and nonder exciung purposis that it does. If its office, of telf, were merely atimulative, ita a ffects would bu le'ss manifest and less lasting. nor would those cfects be visible beyond a single season; henco we infer, that, besides its direct agency, it exerts an iudirect one, as a catercr, if wo maj so expresa ourselves, still more important. Agnin, those who deprecate tho use of plasterdirectly to the whest crop, do not besitate to use it on clover, and turning that in with the after-math, to grow wheat on it. Why then, ifplaster crerts so unfavorable en influence when applied as above first stated, is it then sown on the clover that the whent racepes the asigned injury? This is a question as dificult of solution, as is the one with which we began thas article; for as the plaster requires many hundred times its own body of rain to dissolve it, it must necessaraily continjo its action through sevcral scasons and succeisive crops.
We have thrown out these remarks merely an suggestions, in the hope that the quicstion of"What is the proper food of wheat ?" may draw out some able correspondent, whose hnouledge, observation, and experienco may cnable hitn to throw light upon the suljut.

## SPECIFIC MANURE FOR

 SPECIFIC PURPOSES.Many farmers suppose that all manures are similar in their nuture, and have the same -ffectupon plants, whatever may be the strurture, design, or use of those plants. Noxt farmers are unwalting to believe that any thing is munure, except what may be of animal origin. We have long labored to convince, them of tho fallacy of this idea.- As long $0 g$ as 1332, in an addrea deliver ed before the Kennebec County Agrtcultural So ciety, wo ventured to hod the following language which on honest nld farmer cold us, afternards, did very wel! "for a fught" but he did not think much of it in practice. If you want a large, succulent growth of any thing, use animal manures plentifully. If you want to raise pumpkina, qquadhes, or roots. grass, or any thing which is naturally pulpy and succulent, animal manure a: the ingredient necessary. But wheat is by nature very different in its structare and compustion from those. You want a comparatively hard, flinty straw, and you want a full and hard, finey, diy kernel. Limo, alkalies, nad such substancrs, arn the proper meterials to produce such crops.
Wo wero pleased to find that Mr. J. E. Tes-chemacher-a practical and scientifice Horaiculurist of Boston, in experimenting upon manures, and enpecially upon Guano, the monure which is now brought from the cosst of Chili, and iexciting much attention-has come to the concluaion ther pariculns manures are adapted to promowith dimerent parte of tho plam. That will effect it. If you desire sced only, other kinds must bo used in greater quantitiss then the otber. In a very inatructing communication which he hs nublished in tho last (April) number of ilovey's Magazine of Horiculture, apeaking of the action of Guans on the growth of various plants and Fruits, he says:-It seems to me highly prubable that corain manures aro particularly conducive to a luxuriant growith of stem and folioga, whito others aro peculiarly so to the production of nu marous and alled sceds."
He then goes on to state, in general itermp, that
matter, or the nitorgenous manures, are chiefis instrumental in protucing stem, leaves, \&co, while the phosphates of lime, of Mognasia, and the sulphinrous compounds, all of which exist in those seeds ustful ay a manure to promote the produc tion of them, and whilo the former are first neces. sury to fit tho plant with propar and strong organs for devoloping tho seed and for supplying these phosphates, Cec, it must be som; whero in the suil or supplied by man, or the sced will not fill, and be so full of tho essential amount of the true material. We sec this result oftentimes in many crups. We recullect that no tonger ago than last year, wo latened to the remark which one farmer mado respecting the crop of another. Farmer A. had planted a certain piece of land, for ten years in succesion, to Indian corn. It was a warm piece of land, and te put on a gnod dressing of manure from his barn windows. His brother remarked to us, one day, as the corn was coming up, that $A$. would have a good crop of stalks, - but now mind what I tell you, his ears of corm will have plaguy long snouls when he comes to husk them." We lind the curiosity to examine the corn in the fall, and suro enough, there were but very few ears filled out over the end-they had "plaguy loñg ears," Indian corn wo all xnow, begine to till at the bottom of the ear, and if there be the proper kind of matuer in the aoil and plant, to fill the whole car out it will continue to fill, kernel after kernel, untilit is filled over the end with sound curn, unless as is sometimes the case in our latitude, the season is not long enough to allow the filling process to go on until all nre filled. This man had, by his good supply of animal manure, always male a good show, and obisinud stalks and huaks in abundance; but he had robbed tho soil of other food, such as phosphates, \$c., and did not know that it was necessary to supply them. It is thought hntGuano possesses the ingredients neccesary for hoth stem and foliago, and for the seed too, if is be properiy applied.
Wo hope that Mr. T. and others will be enabled to go on with theirexperiments, and devolope facts which are needed, and which will be so valuable w farmers in a pracucal point of view.

It in probable that the science of panureology will b come so prerfict, liat any part of a plunt ran be so xtimulated as to be grawn to excese, by the proper spplication of the righe manure. For instonce, if you wamt all leaves, or big flowers, you ean have them. If you want all seed, and tut litto foliagr, you can bave it, by only knowing a litule more of the nuture of the ninat cultivated, atd the material to be applied.- Maine Farns.

## FOOD FOR COWS.

We would commend the following ariticlo to the carefil perusal of our readert, as it embrnces $n$ cupic of great ptactical importance. With those famllar with tho writinge of M. Chabert, and his exulsed characier an a seholar, any cummendation on our part, would of course appear superflujus.
M. Chabert, the director of the veterinary school of Alford, England. had a number of cows which yielded twelvo gallons of milk every day. In his rublication on the subject, he observes that cown ied in the winter on dry substances givo less milk then those which are kept on a green diet, and nlso that their milk loses much of its quality. Ho published the following receipt, bythe use of which his cows offered him an equal quantity and quality of milk during the winter as during the summer: Tahe a buthel of potatocs, break them whilat raw, place them in a barrel standing up, putting in successively a layer of bran, and a small quanuty of yenst in the middlo of the mass which is to be left thus to ferment during a whole week, and when the vinous tasto has pervaded the whole mixture, it is then given to tho cous, who eat it greedily.
We have been promised a communication on this subject by a person to whom wo casually mentioned the viows of M. Chabert, and wha hat had somecxperierce of late, as regards the process he commends. Experimants of this description aro much needed, at this doy, and wo aro glad that there is one among us, if roo mors, who is cisposed to mako tbem. nnd favour us and the gublic with the details.- Maine Oultiontor.

## MANURL-C'OMI'OST.

Mamure is virtually the faner's capital; the bank, if we may to indurged the expressiun, upon which lue can aloun draw fur there importunt and ossental acconumodatons without which his industry ard economy in ohter matures. will be of litilo or no avail. Therese net a fumer in New England whose resources in thas particulat are not amply abundant, and whose farm, inighi not in a short time, bo brought to almoat any de greo of producivetiess tho owner condd renomath dente. Nuture has previded, ly a whe econom: that nuthing which lisy once been invpirited with the energizing madentiving praciples of hfe, shmil be worthless in the gremt work of perpetuating and uourshing its kind. Bua $1 t$ is not simply to the animal and vegetable kingdum, that the farmer is to look for the means of enrichang his suil The various mineral sabstances embelded in, and conatiuuing, to a certain extem. the surfnce of the soil upn which we tread, aro endued with certain distinctivo and emendatory propertiox which render them efli-ient assistans in the labur of improving and entiching our fiolds. Fien the hard and compact subestances of fint, is cap, able of jeilding upon decompusitiop, a principte essential to the growth and nurrimunt of planti, while the various mineral substaners of our ecm mon feld and gardens, are capubte when commingled in proper relative actions, euhrr of weught or measure, of croiving principles rut only highls beneficial to the heatho planis, but indiopensably necasary to their succeseful severpreme noid growth. In the formation of $\mathbf{x}$ mpoot manure, one thing, houever, is iadrpensible, atd this is that we attend strirtly'o the nature and canc:an tional character of the soil to weren it it to be as applied. If it be of a cinacy, or arg'laci us tex ture, the basis of the c mpnat in e id d fur tis amelioration, should ewns'st prinequaly of sard. Bis if. on the contrary, it be of a sandy or chec.. us chat acter, tho compost shou'd be mosly of cioy Suids that are nacuraty humid, showh have etidh ater ants applied, and in such qunntitio, as wat hate thera to a propet corsia ency, whle those that se arid and latle to irjuiy from $n$ 'us taf deacent or evaporation of watr, mbst be insa fid by the application of such reme daal ag this, do will tend to confer unctuosity, and pateat the porabiliny of itiju y from such a cavis.
The most zenacious clays, and the most barren sande, may, by the application of such matiataht at tend to modify their obvicu, di fiects, be mede wunderfully productive-Muanc Cutirator.

## VENTILATIONOF cowhuUses.

Every onc knows that pure air is necesary for reapiration, and that aur on beine uned by the lurgs is expeiied in a detenorsted condition, and readrred unfit for being ofath inhaled. If, therefore, cowheuses are not properis ventilated, the air becomes foui from the respired air, as well as, perhapa, from impure cxhalatons, and the air to doteriorated is rendered unfit to mainuain healih. In tho nelghbuurhoud of largo towna, too, there is another predisposing cause to diesare, viz., the unnatural forcing of a cow's milk by a too liberal supply of brewer's draff. Freih nupplies of air, that the bleod may be purified, are essensial objects of a respratory apparatus, and if the blood that goes to the lungs ia returaed to the aysiem in the same stato ss it is sont, death will be the consequence, for venus blood in poison to the bedy. It doess nut often happen that imperfect ventilation preduce unmediate death, but it is ton ofena tho real cause of indammation, fourr, ond dradlv distempers.Correspondent of Mark Lanc Exprcss.

Cure for Cancers.- A gentleman who has for years bern nfliered with a canmer on he face, informs us, that afere having fullourd thr precriptions of some of the mose akilliul physi oinna, at the exprnse of mare then seven hundired A. "ure, having twice had it cut, he has ipeen effee roelly cured by simply bathing is three or fo: times a day with branty and sald Thisso afliniou with these virulent ulecss will do well to try uros
Maies Cultisalor,

## [rioun tho Massacluasets Plonghuan.]

## agillevitual meeting AT BOSTON.

Colonel Jequ s, of Charl otown, was entitled wh thour. Wo bad not room last weok to tinich cui our report of the Colunel's remark, and ne heie tumert them. He eproke of the dinger of nufirining bulls to run as lage and of the eave with which they could be prevented doing mas. cherf -he sand many lives had bern lost by these animils; that the could be tamod by puting a ing in the nose; and he had done this in three whincs to one that was six months old ; then ctry may bm handied with ense. If they are curned out to pasture, he said they ought to be bhinded. This he had done by tying a board, wo fret long and three inclises wide, in frunt of the horns. and then fastening a leathrer apron to the bonri, cutung the apron three cornered, and bringing it to a point at the nose.
Colonel Joquens ead thas would bo no injury to he animal and he would never attempt to fight or te gare any osio whito this hood was on.

In apeaking of diseases to whith catile arn suljiret, he said he once had a cow that gave him welve quarts of milk per day, as late as November ; but she suddenly fell away to two quarts. He flet of her horns and found them warm ; he vit her tail, cut off a prece, and rubbed spirits of turpentine betwernher horns. He harn gave her half a pound of lrumstonc maxed cuhh half an ounce of saltpetie, put a phece of garget root in her dewlip near thin bosom, as a rowel, and gave her a warm mush, and the sery sova restored her toly.in.

Hesaid ctid water shinud reverbe given somn .fier caivang. Lat. "annwight once apphed to tanto ne what was the mancerunth has cow ; ste bad aived, erod he thought she would die. Cul. J. "cut :u see the cow, and tho at once sujpected what ana the c.use of the crouthe. Ho suypected Lechoddanh toon uch cold water. He atdressed the lavizun who had to caro of her, and bared tum what neglectug ow give her drak caveh. - Ub. jer how cr, sath the men, but she riuhd dure buthers at ste umo
He chooses to det the call dran malk from the Noubt haree or buer months-he thuyght they reorly on ponadge or slops.
He spohe or the famons Oha cows that was biedi in Daniere te the Rev. Alc. Okis. Her calf was hilled of :a Al y and nbe madeafter that 481 pounts of tutere durng the season. He theught no anmal cutad bo foud that would mad a poor man so much ; snd he did tot doube that a ntole pace mishte be fuanal, in tume, equal to thes cow; but uekeep cows that all the feeding in the woild would not ir.rg up to this prodnct.
As to feeding ca:sic, Col. J. thought if meal "sato be geven the hay should be cur up, but it no meal was to te inexed with the cut food at woudd not pay cast to cus the hay. Ho once biept 30 cows and gave thers one bunhel of bran per d yy. muxed with cut fer d, one thard Enginh hay, one third roarse hay, und one ahard straw. He bad secn cons that wese rured for math by caung two much Indan mesil. He hnew tho hastory of a cow that had been fed wath half a peek of menal per day, and in $\mathrm{r}_{\mathrm{s}}$ shots umo the quataty of mik which had bece very greaz was bearly dried up. The Gumous Uaks cous was another instance. after having mado the large quanky of butcer named abos , she feth off in consequence of enump ton much meal, and gavo but very linte matk. Col. J. ', whh this cow afterwatd of President Qumes. 1 ne eldor, and codenvoured to recrute and resture ner to ther former sate; be turned ber ont to past uro one whote sumence and let her have no men. ; bua lie rever could bring ber beek aganshe wny sponted for milk.
rabad a higheptinionof wheat hanas a remedy djupepsia in cows. As to diffechey in calting conarquence of he prymonderarice of werghe in the male, thrie never wombl be traublo if good hnped erimnis, actl't small boncs Aero eclected. Cows, too, with large hrads and horna, would bo amail in lady, and th tho pelvi. Ho reconmenied hater brenking of calves at one or two days old-when th: $i s$ wail done you moy ap. proach them at any tame in tho field. Ho strenmaly recommendrd hand treatment; he said all would not bo mada zare lite a apanifl ; but all
soill remember good treatment ; and they neves forget whan thog have been ill used-therr memory is very strong.
Col. J. spohe hishly of the Normandy breed of horses, a cross which piven us the Morgen hories He thought this the best breed for all work-he will go to meeting, to mall, zund to market ; and ho has of spirit enough for any higher wervice Ilr sand we should be very particular in tho use of language-never saying zolioa when you do not mean to have the horse stop. Bo uniform, use the same word always fur tha same purpose. He can so trnin a horse that he may be stopped by a word when his bita or reina are broken.
Mr. Monoon said he had bren in the practico of fattening cattle for a long time. Many farmers have on idea that if catlo aro often removed to new pastures they will fatten better than when kept ateadily in ono lot. Ho had tried the plan to his satisfaction and he was well satiflied that it is not a good plan to shift canto from pasture to panture. He had practiced shifting them orico in wo or three weeks through the summer ; but he found that they gained more fat and tallow when kapt through the zohole summer in ono pasturo than when they were shified. Even in autumn ho said they would lay on moro fat in a good sumamer pasture than in what is called fall feed or rowen.

The Eidtor of the plougtiman stated that this was ngreable to his nwn experience, and that he would prefer letting has cows run in one pasture to shaftung them mito three or tour-that even if ho could have his loss so divided that the cows could be turned anto a new one-daly he would not do lt. When they have the uhole run they have a suffiuent bute of the new dally growth which is awecter than any other. That cous which are admit:ed in Septomber into thic mowang fields will not dwell theto lung when they have iberty to ge back into the summer pasture also, provided there was a proper aupyly in that summer pasture.

## LIME FOR PLUM TREES.

IIcssrs. Editors:-The late discussion at an agricultural meeting in our State Husise, concermang tho efficacy of ealt in preveniug ite atachs of the Curculio upon Plum treey, has remanded me of a fow experimenta, which.I hace recrntly made on this suliject. Thoso experiatents have not been sufficiently numersus to juntify a poneral conclusion; but I shorid like to know if mhers have obianed similar $r$ - sults.
Previous to 1841, severn! of my plum trees had been so atacke.'by these insecte, that I acarcely whaned a npe plum. Eaty in. the apring of that gear, as soon as the blossom buda begun to swelli, I removed the soil around the tree to the depith of two or itree inches, ap far on all sides as te e himbs extendrd. I then deposued in the oper: ing a lojer of hithe, recenty slacked and atll werm, atout trati an inch in thirinness. The soil was 'rumedintely r stored to tis phace over tho lime, and closely pressed down upon is. I had an abuadsat crep of well rupened piumn. In the spring of 1243, I again appied lime in a sumilar manaur, oud, with tho the sime success.
In tho Autumn of that year, it was atated in some Agricutural Journul, that aste aprinkled areved the treo in sufficient quantures to zender tho ground whatsh, would prevent the ravages of tho Cuiculio. In 1843, I made the experument. The trees blossomed well, and showed an aburdance of frunt ; but every ptum was auncked by thes insect and tell to the ground.
1 minend te ayply the hume agma the present
 plums, ny confilence in thas remedy wall be stong.

Luyra reapectifuly,
s. C.

Brunswick, Ne., March 23, 1844.
The nbove expenments of Professor Cleveland, f Bandon Cullege, may provo to be valunbie so horticuteuriate, in erabling them so gward ogatmet the most fo:midnblo enemy of a valunble and delicinus fruat. We hope that others xill try ito experrment, and wo shall bo pieascd to learn tho results.

It is a picasing conaderation to culterators that host gerzemen who are dibtinguistics not only in our owa but ia forcign countrios, for their detp
resoarches and attainments in thnse sciences that aro inclmasely connected wilh agriculture, and its kindred branches, are directing their intention to ogricultural improvements, and thus applying acience to the most useful practical purposes. Fivery oparation in nature, by which the farmer produces his crops, and reartand fatiens lis animals, is atrictly in accordunce with the vatural sciences, and the more theso are understood by cultivatorn, the lighter will be their labort, and the greater their success.-America Farmer.

## AYRSHIRE COWS.

Mr. Randall, Chairman of the committee on Ayrshire Stock, mado the following report to the American Instututo last Fall:-

Mr. Prcsulent and Gentlemen,-Your commitee have very umperfectly attended to the duly assionned them by you, last cvoning, and offer na an excuse, that a portion of them have been occupied by a very arduous task amorg the catile on the show ground, as julges on stock. They are pre pared, however, from the limited knowledge they have of the Ayrshire breed of catte, and from the best information they have been able to procure. to offer the following as their report:-
"The Ayrshire cows aro of medium size, their averago living weight about eighteen hundred and ninety pounds. Their peculiarities are as follows:-
"They are low in tho leg, and fine in the bone, with a round and capacious barrel, rather heavy in the hiad quarter-straight on the back-the nech and head very light-the neck well set on-no dew-lap-horns small, short and clear-the tail very small-a true taper in the barrel from the bach rib to the shoulder-fore quarters light-the udier an oblong square, rounded off on the luwer part, and running far forward-their teeth small and well apresd; they aro a very hardy race of animals, with good constitutions, and when diy, dispused to take on flesh quichly. Your commitice aro uf the opinion that the. Ayrshire breed of catlo stood unrivalled as a dairy breed, and will give a betuer retura in milk and butter, for the food consumed, than any breed of caitle now known.
"It is a fact wellettiblisher "thet the beef of the Ayrshire breed will ell in the Glasgow and Edinburg market for one 'penny per pound' mure than that of ang other breed.
"Your"Committeo have, from their' own knowledge and from information from auch sources as can be mlied on; acertained that the average quantity of milk from common. Ayrahire cows is from twenty-two to twenty-ix, quarts perday. There are thousands of cown in the western counties of Scotland that will give thirty gumes per day, and very many that fill give thirty-six quarts per day, and some go as high as forty two quarts. The Ayshire, when in full flow of milk, require to be milked threo times in each day, and they require great care for tho or three days before calving, leat the udder be too much crowded by tho new flow of mik. Your committeo have knawn fify six quarts of milk drawn from ono Ayrahare cow, in about forty-eight hours, immediately befure caling.
"Alt of which is most reapectfully sub mitied."

## FOOT-ROT IN SHEEP.

Caution.- While your readers attention has been turned to the disease of fuot-rut in sheep, when either house fed or kept in a damp situation for any leng'h of cime, I would bre to offer n caution to shepherds, and others looking after the animals, when sonffected. If any of the matter of foot-rnt come in contract with a sore or suraded surface on the hand or other part of tho body of a person tending the animal, it is apt to produce a voilent infsmmation nad rapid mortifi. cation of the part, - a discase termed by medical men gangrenous infarmation. A shepherd inthis neighbourhood nearly lost his lifo from this cause lately; and the diecane was only arreated by burn ing out the whole affectod part. The modo of rranting sheep when labouring under fool-rot hore, is to clan the parta disphsed, and apply tho strongent nitrous acid carefully with a siraw. or glate rod. This very soon conquers the disease.

Those animals affected with the complaint whould be immediately separated from the yest of the hock, as treading in the same foosteps wil apread the diaceso from the tanted to the frec.J. L., Nezoburgh.

Age of the Shecp.-The age of sheep may be known by examinng the front teeth. Thes aro eight in number, and appear, during the fis ycar, all of a aizo. In the second year, the two miditlo ones fall out, and therr place is supplied by two new seeth, which are envily disinguinterd by being of a much targer size. In the thirel yenr. two more small teeth, one from each stde, drop out, and are replaced by two large ones: so that thero gro now four latge treth in the muddh, ami two pointed ones on each side. In the fumbth year. the large teeth are six in number, ant only two amall ones resain, one ar eachend of the lange. In the fifh ycar, the remaining small we hare lost. In the sixth yrar, the whule hegia to be worn; and in the seventh, and sometimes suoner. some fall out and are brokes.

## CURE OF SUENEY.

As soon as you discover the discasewhich will be known by notucing the horse whte standing after use, and it may be yeen even whe statl, he will sustan the weight of the budy on the opposite limb, and put forrard the lunh of the affected side, permiting it to touch the ground but lighty, lamps when hurried down hati, the musclo upon the shoutder becomes than, and $1: 3$ many instances the akincontracted and ught,-put a twist upon his upper lip, and antroduce the mali blade of n common pocket knife, (the point of which mast be sharp.) into the thinnest part of the ahoulder, whach will be near the upper marem of the shoulder blado, and push 18 darect!y 19 anal you reach the bane, budding the kan e ay yon soudd a pen when wriug, and scratch up the membrane that covers the bono for aspace the sizeot a sutver doilar ; the kmfe may then be withdrawn, and after the small quantity of blood that lolluwa is auped away, the ortase wit not be seen. The knifo may then be introduced in one or two places below the first, and used th the same was, und the operation is over. This mas be repeated an six or eight days: we have soldom tuund at necessary to repeat the operation more than tuse or thrice. and an many cascs a singlo opera:ion will effect a cure.-Sonthern Cultarator.

## POINTS OF A GOOD HORSE. By Col. Jaques, of Mass.

Col. S. Jaques' Remurhs on the Prominent Poonts to le obsuced in the setection of a lisefal Morsc, more partecularly for a Roadster.-1 prefer a lightish head, neatly set to the neck, the neck rising prompily anil strong from the shoulders and wabers, and somewhat crowing or carving at the top, tapering to the hiad wah a sirang crest. Shoulders well laid in, spreading woll back, eomething lhe a shoulder of mation. Chest deep and a litulo projecting. Wathers rising moderatly high and inclinting well into the bach. If the whinery are low and fat on tise top, the horse will be inclined to plange to the ground, and when fatigued will stumble or fall. Neither must the withers rife too high, ns be will then appear as though on stilts, both extremes are scrious impediments to fine and safe action. It.bs should be well rounded out Back siraight and short, well coppled, that is, the hips wall thrown torward, forming a strong loin, and giving a long lerer from the point of the bip to the hock joint of the hind leg. The horse should bo a good lengeth from the point of shoulder to the exiseme point ofbuttock. Dock sirong, and well covered with hair. Clase and snug monediately under the dock. The museles on the inner part of the dighs should befull and well shut ingether. If there is a large cavity under the dock, the horse will bo inclined to scour, and is probably only a door-yard horse.

The neck, head and budy form a lever, resting on the firo legs as a fuicrum, the head being at the end of the lever. If the neck be very lone and the hesd heavy, or if the neck be quite thnrt, and the head short and light, euher of these cxircmes very much affects the regular
clips and action. The whole macline should be of gond proportion.

The fore atin is a very imporinnt lever, ns re. gnrds the enfiy of a roadeter. The lege should be cleon and fico from blemish, and whon in motion move true, and freo from culting or wabbling. Ithe fect shonuld be round and steep; heele broad; coronet and prosterns of medium fength. sliank or cammon, broad and flat, showing the tendons or sintews. The knea large nid well dropped down; the arm above the kire long, and the muscles large and full. The thip of the shoubder when matched, to the whiters shmuld not be so licavy-loaded with muscle as $t a$ impede therraction. No objections to the lore teet moving pretly alose, but nut so as :ocut

Much depends on the form of the hind leg and the power of that lever, as regards strength and speed. The stank, hock and thigh should be broad and far, somcthong lke that of an ox; and it so when in anotion will operate like a plank sprung edgewise and then let fly. It the land legs when at good apeed open and sprend a hittle, on objectuon, providing there 18 a good fice action in the buck juint.-N. E. Farmer.

## (From the Mauc Cultivator,)

COB MEAT.
Ihessers. Edators:-I noticed some imp ance an articte in your paper-editorial, I think-in whirh it was urged upon farmers to grand thear colls, as the meal was valuable for arny purposes on the fam-paticularly for poulry, hoss, and stock.
O. the strength of this suggestion, I "acted," and can nuw assure you, so well satesford am I nuh the result, that me cubs will never, as here1 fure, be "usclessly throucn axay." As 1 grind ing cots whithe corn, I cannot speak dafiaitely as t, the valuo of corn meal when used in its puro ard unmixed sta!e, but I am satisfird the: there is a very important saving attended by economiz ling c.bs in the manner you direc'. I have, during the last three months fed corn and cobs to my huse, chutle, hogs, and calves, and as I have a luige stoch this winter, and have, thus far fed them wholly on the products of my farm the saving is me, from this simple suggestion has I a-tare jou, been of no small value as regards tho purse.

## Yours,

Economist.

## GRATTING GRAPE VINES.

The late Mr. N. Herbement, of South Car lina, a succesfut cnltivator of grape vines) after referrint to the usual modes of gratting fruit rees says:-
"Bat let vines be grafted in this manner, unl ese the operator knows the particular requisite for the vine, and the probability is that he will scarcely succeed once in five hundred trials: The mode of grafing, wh'ct I practice usually, and which isarended with no defizulty, and very seldom fails, is as follows:-All I do, is to take away tho earth round the vine, to the depth of four or five inches: saw it of about two or three inches below tha, surface of the ground; split it with a knifo or chiscl; and having tapered the lower erid. of the acion in shape of a wedgo, insert it in the cleft stock so as to make the bark of both coincide. (which is perhaps not necessary with the vinei) tig it with any hind of siring, merely to keep the scion in its place; return the earth to its place, so as to leave only one bud of the graft above the ground, and the other just below the surface, and it is done."

Grafling Cement.-One part of tal: tallow, iwo parts of bees-wax, and threc parts of resin. Mele the whole then turn it into cold water and work as shoemaker's wax. These proportona form a compound that will not run in a hot summers's sun. nor crack in a winter's severast cold.

Warts on Coucs' Tcats.-Mr. Jonath'n Perry, of Dover, tells us that lamp oil will kill warts on cous-apply it several.days in anccession. If other farmers find this effoctual, they will oblige by sending additional testimana

## TORONLO IORTICULTURAL SOCIETY.

It seldom falls to our lat to record so splendid a display as the one under notuce. The specimens of fowers, vegetibles. and fruits exhibited wero of the chomest kinds, and the whole performance wahighly creditatle to the parties through whose instrumentality it was mainly got up, and to the gardeners, gentemen, and others who have aded in establishing this Assaciation.

The Toronto Ilorticultural Suciety already numbers on its subscriptionlist upivards of three hundred names, and the subscriptions range from tive shillings to a pound cach, and we are happy to add, that there are very many gentemen who, in their liberality toward. this cause, have gratuituosly subseribed the latter sum. An cllort will be made, during the present summe:, to doable the number of subscribers, which the manageing committee conhdently expeet con be accomplished, with a trifling exertion on the part of each of its members.

There will be two other exhibitions this season, of plants, flowers, vegetables and fruits, the first of which will take place about the 10th of July, and the third and last for the scason about the 10th of Octuber.

We are authorised to state, that the July exhibition will take place at the Government Llouse, and that the one for October will be held on the grounds of the St. Leger Race Course, whin will be held on the day, and in connection with The Grand District Agrichltural Show, which will take place on the above grounds, on the 9 h and 10 h days of October next.

We have had some conversation with the principal gardeners of this city upon the prospects of the July exhibition, who assure us, that, if the day be favorable, it will be the most splendid performance of the kind that has ever taken place in the North American Colonies. There can be no question but that the professional and amatcur gardeners will do their part in making the necessary preparations for the coming Exhibition; and, from the liberal manner in which the Society has alrcady been supported, and the past exhibition been approved of and applauded, we have every confidence in stating that the enlightened, patriotic, and public-spirted citizens of Toronto, of all classes, shades, and parties, will be ready and willing, when called upon, to do theirs.

The first cxhibition of this Socicty took place in the City Hall, on the 22nd of May. About one o'clock lie public were admuted by ticket. The Brass Band of the 82 nd Regiment were in attendance, and added much to the gnicty of tha scene by theis muaral periormances. The Hall was crowded to excess by ladics and genilemen who scemed highly delighted with the exhibition. The dieplay of plans, fruits, and regetables. (some of which were sent by ar, ateurs) wat very creditable to all concerned
The following is a list of the prizes anarded by the Judges:-
Bent Exotic, No. 39, Cactus Jenkinsonia, Mr.

Sccoud best Esotic, No. 44, Orange, John Logan, cultivator.
Beat Exotic, No. 50, Indian Rubber plant, W. B. Jarvis, Eisq., nmateur.

Second Jest Exotc, Nu. 60, Lemon, W. 13. Jarvis, amatcur.
Beat coll-cion of Geraniums, No. 41, Mr. Fleming, cultivator.
Sccondbest Geraniums, No. 40, Mr. Fieming, culturator
Best tiventy fiour Geramums, No. 47, W. H. Buthen Los., amatear.
Hest collection ot Cluna Roses, W. H. Boutton. lisq, numateur.
Best six Tea Roses, No. 45, Joh I Logan, culinator.
13sst twalve Greenhouse plants, No. 61, W. 11. Bualton, Livq., anhateur.

Tuclve Greentuuse plane, No. 41, Mr. Logan, ulivator.
Dest collection of Pansics, No. 35, Wm Burns, cultator
Secumd beat cullection of Pansice, No. 30, W'm Burns, cultivator.
Bent cullectan of lansies, No. 17, W. H. Boulton, l: Eq , amatcur.
Strawbernce, only prize, Mr. W. Willamson.
Best twetve Table Apples, No. 5, Jubn Gran. ger, culuvator.
Sccond best twelve Table Apples, No. 34, John Granger, cultivator.
Best twelve Iuble $\mathrm{A}^{\text {pples, }} \mathrm{No} .63, \mathrm{Mr}$. Wn. Buras, amateur.
Second best twelve Table Apples, No. 61, W. B. Jarvis, yeq., amateur.

Best twelve Coohing Apples, No. G, John Granger, cultuvator.
lest twelve Coohing Apples, No. 62, W. 1 . Jarvis, Leq., nmatenr.
One brace Cucumbers, No.51, John Lambert, cullivator.
One brace $2 d$ best Cucumbers, No. 50, Johu Lambert, cultivator.
Unebrace Cucumbers, No. 6J, W. B. Jarvis, Esq., amatcur.
Best fifty heads of 1 sparagus, No. 11, Mr. Fleming. culfivntor.
Scond beat fify heads of Asparagus, No. 7. John Granger, culuvator.
Dest filty heads of Asparagus, Xio. 19, G. W. Allan, Esq., anateur.
Besi dish of Sea Kalc, No. 53, Wm. Burns, culuvator.
Second best dish of Sea Kale, No. 20, Wm.
Burns, clulivator.
Best dish of Sea Kalc, No. 56, T. G. Ridomt, Eeq., amatcur.
Best twelpe stalks of Rhubarb, No. 30, Wm. Burns, cultivator.
Second best twelve staiks of Rhubarb, No. 10 John Granger, culivator.
Best twelve staks of Rhubarb, No. 20, G. W. Allan. Esq., nmateur.
Second best twelve stalks of Rhubarb, No. CG,
W. B. Jnrvis, Esq., amateur.

Best iwenty-five Radishes, No. 46, John Logat, cultiva or.
Second best twenty-five Radishes, No. 11, John Granger, culuvator.
Best twelse heads of Lettuce, No. 12, William Margeson, cultivotor.
Sccond best twelve heads of Lettuce, No. 13, Wm. Miorgeson, cultivator.
Besi twelve heads of Lettuce, W. B. Jarvis, Eeq., amatens.
Best peck of Spinage, No. 43, Mr. Fleming, cultivator.

Sccond best peck of Spinage, No. 26, G. statle, cultivator.
Best peck of Spinage, No. 18, G. W. Allan, Ciq, amatcur.
Three best hends of Cabbge, No. 2, John Whine, culuva:or.
Three secoad best heads of Cablage, No. 3, John Wbate, cuiturator.
Kidney Bcans, No. 63, W. B. Jarvis, Esq., amntear.
Best peck of potatoce, No. 1, Jchn White, culava:or.
Second hest peck of Pulatoes, No. 56, Jolan white, cultivator.
Brst Futatces, No. G9, W. B. Jarvis, Esq,

Beat diah of Mushrooms, No. 54, Mt. Tapscoll4 cultivator.
Second best dieh of Mushroomis, No. 22, W, Danicls, cultivator.

## TIAE for SPREADING MANURES

 ON GRASS LANDS.A corespondent asked our opinion'as to the most proper time fior apreading manures over grass grounde ${ }^{\text {a }}$ ?
We are decidedly in favor of spreading in November in prefirence to any time whatever in the gyring season. We communly lose a large part of our manures when we spread them at any time on land that has long lanim grass. But as there are many nntural meadows that cannot be casily plonghed, we dress themby an upplication on the surfare.

Many farmers near Boston aprend manure on their grass fields as late as May; and if the month holds rather dry they find but hutle benefif fiom it. Withan our oun observation there are instances of such spreading which has pos:tively proved deamental to the harvest. In a wet se.son it will operate better: but almont any lind of applicanon in the spring is apt to come in the way of the scythe and of the rake.
The best time is November, when the application is less lable to dry up or evaporate. Much lonm or other matter should always be mixed with manure that is 20 be spread on the surface of mowing lands.-Muss. l'loughman.

## FANAWHA SALT REGION.

Extraondinary Discotery in the Mantsfacturc df Salt.- Several months aince we atated that a remarkable phenomenon bad occurred on tie Kanawa, by which the natural gas coming up with the salt water had been used as tuel to boil the water. In the following article. which we extract from the Kanawa (Virginia) Republican, it will be seen tial thio prucesa has been carried sull further, and that this phenomenon is now one of the most extraordinary natural developinents of modern time-Cincinnate Chronicle :-
Kanawha Sall Region.-We have asaid before that the subterranean woundera of Upper Kanawha Valley were not half explored, and every day protes tha: there are not ouly myetenes but treasuren of nealth of which the proceding gencration had no conception. When a year or so ago, Mr. Tomking turned out the gee that forced up water under the kectle to aid in converting the brine into salt, thereby saving one half of the fuel, it was thought to be a vast stride in march of improvement and diocovery: but now Messers. Wrath and England, at their new turanee, have actually attaned the lishiman's deaderaturn in the proposed purchase of two sinves-they sace all the fuel. The gas has sufficient power to force a column of water three incles in diameter from the depth of a thonaand feet to the height of about filty feet above the surtace of the earih. It so then turned under the furnace igmied, and boils the water ull it is brought to the state for clirystalization, and then eonveyed to the cisterns, and produces the heat that carries on the process of evaporation. Thus 350 bushels of eatit of the first quality are made per day, withont one particie of other fuel than thegas. At theee works but one cistera 18 yet erected, and they are able to use only one halt of the water that is forced ap; another in in progress of erection; when completed, all the water will he ueed, and 70 or 80 barrels of salt manufnctured dally, without coal, wood, or the rays of the sun.

To Kill Flics in a Cheese Room or Elscuherc.-Cheese rooma are frequendy kept closed and darkened to keep out the flies, 28 the darymaid says. Mr. Livesuy asecns that thas practuce, rumous to clicese, may be avoided by occassonally boiling a peanyworih of quass.a chips in a point of water, sweetening it, and pancing it on plates about the romm. It will deatroy all he fles that taste il. Cheese, he eaye, being anuma! maller, chanot havetoo much arr.Cullivator.

## CATTLE SHOW OF THE HOME <br> which took place in the Court-Ilouse, in the city of Coronto, an tho 15 th

 DISTRICT AGRICULTURAL SOClE. Y, under the Patronage of His Excellency the GovernorGenfral.The Ifome District Agricultural Sn. ciety will hold a Grad Autum Fair and Cattle Show, at the St. Leger lace Course, adjoining tho NorthWestern extremity of Toronto, commencing on the morning of the second $\mathrm{W}^{\prime}$ ednesday of Oetober next.

Tne first day will be appropriated to exammation of Live Stock, Dairy Produce, Root Ciops, and Grain. The 2nd day will be devoted to the examination and trial of Agricultural Implements and the inspection of articles of Domestic Manufacture, the reading of Original Essays, and the Sale and Exchange of Stock, \&c. \&c.

The amount appropriatated for premiums is about $\leqslant 150$, and the awarding Committees or Judges are to be selected from the Agricultural Societics established in the Ningara, Gore, and Newcastic Districts ; and, to return the compliment, the Home District Soziety purposes to furnish Judges, when required, to the Socictics above mentioned.

The parties who will be entitled to compete for prizes are the members of the District Society, and also the members of the Township Societies established in the Home District. A trifling entrancefee will be collected at the gate, from all who enter the show-ground, in order to assist in derraying the contingentexpenses of the Exhibition.

At the close of each day's performance, a plain, substantial, cheap, and well-served collation will bo in readiness, on the ground; after which, a number of appropriate speeches will be delivered, by genilemen who have promised to attend from other Districts.

The place of exhibition, arrangements, premiums, and the unparalleled hberality of admitting the members of the Township Branch Associations to a parucipaton in the benefits of the Exhibition, in common with the members of the District Society, we are certain, will ensure a full altendance, not only from the inhabitants of the Home District, but also a liberal attendance from the freends of Agriculture in other Districts.

It is confidently expected, by gentlemen fully competent of forming a judg. ment in these matters, that this Exhibition will be by far the most creditable performanee of the kind that ever took place in British America.

We have not room to further dilate upon this, to us most interesting topic, and shall conclude by announcing to the public the list of prizes, which were proposed and adopted at the last quarterly meeting of the District Society; which
ultimo :-
For the best Essay on the profession of Agriculture as a Science,-A Gold Medal, to te worth £ 300 . The Essay to be sent in to a commitee to be appointed on the next regular day of the meeting of the District Society, to be heid on the eccond Wednesdny in August next.
Second best do.-A Silver Medal, to be worth ie2 00.
For the beat cultipated ind well mannged frrm, in the Home District, taking in view the land, sinck, and produce, with all the appendages. A Gold Madol, to be worth $2=300$
Second beat do.-A Silver Medal, to be worth £2 00 .

## CATTLE.

Best Bull 3 years old and upwards... $\begin{array}{cccc}\text { f. } & \text { s. } & d \\ 0 & 0 & 0\end{array}$

 Secund best do do do 110,0 Third best

## young cattle.

Bulls of tuco ycars oll and under.
Best...................................... 1 is 0
Second best..............
0
Heifcrs tuco ycars old and under.
Best.................................. 1 00
Second beet.................................. 15 0

## Best Horse under 3 years old.......

S
B
S $\begin{array}{lll}\text { Best Mare } & \text { do } & \text { do } \\ \text { Second best } & \text { do } & \text { do }\end{array}$ Best Horse under 2 ycars old..........
Second best do $\begin{array}{lllll}\text { Beat Mare } & \text { do } & \text { do } & 1 & 10 \\ \text { Secondbrst } & \text { do } & \text { do } & 1 & 0\end{array}$ Best spring colt or filly................... 1 1 0 Second best do do 10


| Best Brood Marc................................... | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| Second best do | 0 | 0 |
| Best tup of any breed |  |  |

Best tup of any breed..................... 210
Second best do du 1
Best 3 Ewes....................................
Second best do
Best six fed Sheep..........................
Second best do
Best Boar.........
Best Sow,......... do
Second leat do FARMING IMPLEMENTS.
Best iron or wooden Scotch Plough
menufactured in the llome District. 1100 Second best do do do 200 Best subsoil Plough manufuctured in
 Second best dis do do
Best Fanning Millmanufactured in the

Home District..........................
Best Cultivator or horse hoc......... 1
Best Drill Barrow.......................... 1 I 0
Best portablo Thrashing Machine, not requiring more than twohorse power and cnpable of thrashing at least 100
bushels of wheat in a day of 12
hours
Sceond best do do do.......................
Best Siraw Cutter.... .........................
Beat Clover Machine................
Best flax and Hemp Diessing Machine
(portable, )... ..........................
Beat IIorse Rake.............................. DAIRY.
Best sample of 50 lbs of Buticr...... Second best do do do
Best 100 libs of Cheese............... Second best do do do

DOMESTIC MANUFACTURES.
Best pär e! Woolen Blankets manu.


## AGIRICULTURAL PRODUCE.

Best somple of Flax of not less than

Second best do do do 200
Best eample of Hemp not less tian 112
prounds.................................... Best pocket of Hops. ..................
Second best do do
Greatest quantity of Hops grown in
Greatest quantity of Hops grown in
the l'rovince, a nd exlibised in tha
the l'rovince, and cxbibised in tha
City of Toron to for snle on tho
second day of the Exhibition....... 5
For the greatest quantity of Broom
Corn, grown in the District and ex-
hibited as above.
2100
GRAIN AND SEEDS.
Best 2 bushel of Fall Wheat. .......

WOROUGH-BRED DURham BULL
FOR SALE - The Subscriber offers for Sale a thonngh-bred DURHAM BULL, five years old, which will be disposed of on reasonable terms. His Dam and Sire were imported Irom England, in 1838, by Mr. George Simpson, of N ewmarkel Grange. The herd from which Mr. Simpson made his selection were among the very best amproved Durham Stock in Yorkshire. Any farmer or breeder who is desirous of par chasing a very superior animal, of this unri valled breed, would do well to call upon the subscriber before buying elsewhere, as the Bull in question has been pronuunded, by competent judges, to be one of the very best in the country. H. THOMPSON.

Township of Toronto, May 30, 1844.
N.B. Application by Letter to be directed to the Etobicoke Post-office.

## HOW SCHOLARS ARE MADE.

Custly apparatus and splendid cabinets have no magical plougher to make scholars. In all circumstances, as man is under God, the master of ths own fortune, sois be the maker ot has own mind. The Creator has so constituted the human 3 atellect, that at can grow only by its own action, and by its own action it most certainly and necessarily grows. Every man must, therefore, in an important sense, educate himself. His books and teachors are but helps: the work is his. $\Lambda$ man is not educated until he has the ability to summon, in case of emergency, all his measal powcr in vigorous exercise to effect his proposed object. 12 is nor the man who has seen most, or who as read mnst, who con do this ; such an one is in danger of being born down, hike a beast of burden, by an ovelosded mass of other men's shoughts. Nor is th the man thas can boast merely of naure vigor and capacity. The greatest of all wairriors that went to the siege of Troy had not prelemmence because nature had given binu strength, and he carried the largest bow, "but becruse self discipline had taught him how to bend 1 t.-Danicl Webstor.

THE BANK OF BRITISH NURTH AMERICA continue to grant Drafts, in Sums of ang Ainnunt that may be requircd, on the under-mentioned Towns in Irelaud and Scotland, viz. :-
On the Provincial Bank On the National Bank
of Ireland, at Cork, limerick, Clonmel, t.ondonderry, Sligo, Wexford, Belfast, Waterford, Galway Armagh, Athlone, Coleraine, Kikenny; Ballina, Tralee, Youghal, Enniskillen, Monaghan, Banbridge, Ballymena, Parsonstown, Downpatrick, Cavan, Lurgan,
Omagh,
Dungannon, Eandon, Ennis, Ballyohannon, Sirabane, Dungarvan, Mallow. Cootehill, Kilrush, Skibbereen, Enniscorthy.
They also draw on the Parent Cstabhshment In London, and on their Branches in the Britioh Norih American Provinces.
A. O. MEDI.EX, Manager.

April, 1844.
AND SCRIP.-WANEED a small Quantity. Apply to
H. E. NICHOLLS, Toronto. April 18th, 1844.

1,000

## Filax Seed.

 BUSHELS WANTED, for which the highest Cash Price will be given, up to the $18 t$ September, 1844. ROBERT LOVE, Druggist.Yonge Street, Toronto. April, 1844.

## HENRY E. NICOLLS,

NOTARY PUBLIC, CONVEXANCER AND LAND AGENT, \&ic.,
No. 4., Victoria Row, King Strect, Toronto.

DEEDS, MEMORIALS, AND PETITIONS
drawn with neatness and desparch. Tides to land searched and proved.
Mr. Nicolls having more good land than the Governonent, requests all Emigrants and othert who intend buying either Wild Linds or improved Farms to give him a call. Lands purchased for persons at the Government Sales, located and money paid on the Deeds procured at a moderate harge.
Lands claimed and prosecuted under the Heir and Devisee Act, and Deeds zaken out.
Militia Claims and U. E. Loyalides Rights procured and bought. Bank Stock and Governmont Debentures bought and sold. Petitions to the Governor and Council for pensions or lands prepared and prosecuted. Moncy advanced on letters of credit upon Great Britain, mortgage or porsosal security.
N. B.-On all Government Land business or mortgage, a fee of five shillings will be requiried befere the businees is taken in hand.
Land Scrif, and Banx Stoce for Sale.
WP All Leuters must be Post.paid.
Teronto;Mareh, 1844.


## REVOLVING DRYING KILN.

$\Gamma$IIE Subscriber begs to infurm the Millers, Merihants, and tha I'ublic generally, that he lias, at con+iderable labur and expense, livented
and completed a Machine for DRYING Wheat, Oats, Barley, Indian Corn, or any other Grain necessary to be dried before being manufactured: and he assures them, that it is the cheapest and most expeditious mode of Kiln Drying Grain now in use. This Mnchine will dry from thirty to aixty bushela of grain per hour in a most perfect mataner. ltis so constructed, that the grain passes through the machane, from thence to the rolling screen, whero it is cooled, in a fit state for manufacturing. Thas machine requires very litule power to keen it in motion, and may bedriven by a small atrap from any wheel in the mill. A quarter of a cord of hardwood will produce heat sufficent for drying a thousand bushels of grain.
The Subscriber begs to uform the publuc, that ho bas obramed a Patent for his Machane, whach emenda dhrough the United Iruvince of Canada, and that he is prepared to manufacture the above Machines to oider, of dispuse of the right to persons desmous of manutacturng or usme the same.

## CARDING MACHINES.

THE SUBSCRIBER begs leave to acquaint his friends and the public in general, that in addition to his Fuundry and French Burr Mill Stone Factory, he has engaged Archelaus Tupper, who is an experienced Mechanist, to make all kinds of Carding Macmines, of the latestand most approved construction; he has been engaged for twenty years in the Cnited States, and also in Canada, and has a thorough knowledge of all kinds of Machinery, namely:-Double and Singlo Carding Machines, P'ickers, Condenser, Jacks, Billeys and Jinney. Also, Broad and Narrow Looms, Shearing Machines, and Gigga, Napping and Teazling ; Stoves for heating Press Plates; Press Screws. Also, Crinding shearing Machine Blades; Fuling Mill Cranks, \&e., and all kinds of Grast and Saw Mill Castrige mado to order ; Wrought and Cast Iron Cooking and Plate Stoves; Fancy Stoves of all kinds: Also, Ploughs of different patterns, Mill Screws of all kinds; and Damsall Irons; Boltung Clothe, of the best Dutch Anker Brand, warranted of the best quality ; Mill Stones of all sizes, aluays on hand and to order. Also, sll the other herein-mentioned articles alpays on hand and fur sale by the Subscriber, at ha Eousdry, on Yunge Strcet, as cheap as they can be obtained at any other place.

CHRISTOPHER ELLIOT.
Toronto, August 7, 1843.

## FRESII SEEDS.

$\Gamma^{H}$HE Subscriber has for sain a very chonce sssortment of GARDEN, FLOWER, and FIELD SEEDS, which be will scll on moderate terms, at No 14, Yonge Sireet, immediately oppusite Ross, Mitchell \& Co.

GRORGE LESLIE.
N. B.-Country Storekcepers aupplied with Seeds, neatly put up in boxes. Canh paid, at all times, for Clofer, Timothy, and Flax Serds.

Any further infurmation on the subject may $\& d$ had, by addiessing the Subscriber. All comadide micathons (pust-paid) will be immediately replied to.

HIRAM BIGELOW.
Tecumseth, Bond Head M. O., February 15th, 1844.

## DESCRIPTION.

Composed of a Cylinder about tan foot longy and ten inches in diamster, made of Caut Irong one-haif of an inch in thickneas, having an irous whaft passing through iis centre, on which it revolves with a pulley or wheel at one end, by which it is put in motion. Tho Cyllinder is placed in an oblique position. having about 18 inches fall, and is enclosed either in anothor metal cylunder, or a brick arch, of thirteen inches diameter, leaving a space of one inch and a half beturen the two cylinders, threugh which apaces the fire is conducted from a fire-place of grate, at the lower end, and passes out by a chimmey a: the upper end. The grain is conducted by a tube into the upper end of the inner cylinder.

TMPORTANT AGRICULTURAL WORKS I'ON SALE, by P. L. Smmonds, Agriculutral Agency and Commission Ofics, 18 Cornbill, London.

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5. A Calendar for Young Farmers, by C. W. Jobnson, Esq. Price 1s.
6. The Farmers' Magazine, Monthly. Price 1s. 6d,

SMOKY CHIMNEYS.-No Cura, no Pay. The Subscriber bogs leave to offer his services to all persons troubled with this dreadfol calamity, upon the above terms; and, after thirtyfive years' practice, feels confident of auccest,

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G. BROWN, Builder, \&c.,

Yonge Sireet, near York MiSh-

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