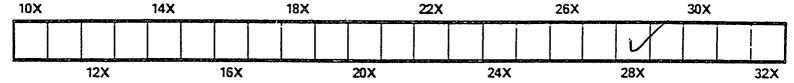
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AGRICULTURE NOT ONLY GIVES RICHES TO A MATION. BUT THE ONLY PICHES SHE CAN CALL HER OWN."-Dr. Johnson.

VOL. III.

TORONTO, JUNE. 1844.

No. 6.



Agricultate is the great art which every government erery inquirer into nature improve."—Dr. Johnson.

TORONTO, JUNE. 1844.

### MONTHLY CALENDAR.

Your summer fallows now demand your carnest attention. If the land intended to be fallowed be foul, with wild grasses and noxious weeds, the first ploughing should be carried very light: a four-inch furrow would facilitate the decomposition of the roots of the grasses, to 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 the land is in a fit state for this work, which generally happens by the middle of July, it should be executed with a strong pair of horses, a strong plough, and a still stronger and more willing heart, on the part of the hardy ploughman. We mean, 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 surface, by deep ploughing, and thus a consistency their operation as those which are liquid, dry weather.

would be given to the black vegetable soil, which would, ultimately, constitute it the very best quality of soil for wheat. Deep ploughing, especially for winter wheat, should be the order of the day with those farmers who have been unsuccessful during the past few years in growing this crop to perfect maturity.

On the subject of leading manure for your fallows, reason the case, in the same manner that a skilful physician would, in administering medicine to the human species. If the land be already abundant in vegetable substance, the manure must be thoroughly rotted before applied to the soil: if, on the contrary, it be deficient in vegetable matter, long barn-yard manure was ughten such soils, and, in most cases, will be of great benefit to the intended crop. In general, barn-yard manure should be applied to the soil for the crop which precedes the wheat crop; but, if applied for the latter, it should be thoroughly rotted in the manure-heap, before being spread upon the land.

The employment of liquid manure, though but little known on this continent, is very extensive on the continent of Europe. It is, from long experience, an admitted fact among the Belgian farmers,

Although labour is high, in proportion to the value of produce, yet the matter of making an experiment with liquid manuro is worthy of attention. Tanks may be very cheaply constructed, for securing the drainings of the barn-yards and stables, and a simple portable pump could be used, for conveying it into the water carts: the latter should be constructed and used something after the manner which is practised in watering the streets of our cities.

This a good time to clean and drain waste lands: every acre of intervale land thus brought into cultivation is worth two acres of up-land.

Now is the time to make an experiment with marl About six good waggon loads per acre will prove a liberal dressing. The intimate mixing with the soil is best produced by its being spread in small heaps over the field, and left lying thus until it commences to fall to pieces; then it should be broken still more with dungforks, and strewed evenly about with a shovel. It should then be left quiet for some 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 been converted into a fine powder; and, that there are no manures so powerful in finally, it should be ploughed under in

#### OUR PROSPECTS.

As this is the Sixth Number of the Third Volume of the Cultivator, and as we have scarcely adverted to the character of the support that has been dealt out to us since the current volume has been in progress, we conceive it to be our duty and privilege to lay before our friends and supporters a correct statement of our prospects. Inasmuch as ultimate success in the accomplishment of even more than we anticipated, when we commenced the work, is beyond a doubt, we have reason to be thankful; but when we take a survey of the benefits that will most assuredly accrue to the great mass of our fellow- exert their influence with their neighcountrymen, by and through the influence 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 parties who will, unquestionably, be benefitted, to a great degree, whether they patronize our exertions or not. From the commencement of the enterprise, up to this period, not Agricultural improvement, above all other Society belong a proportionate degree of even a semblance of making private gain questions, be pre-emmently the order of credit. Let us, for a moment, inquire has been evinced on our part; as an evidence of which our terms have been gradually reduced to Agents and Societies, until we can now boast of publishing as cheap a Journal as any other of a similar description published on this continent. Owing to the great reduction of the price to Agents, the average value of each copy disposed of does not exceed the small sum of two shillings and sixpence per annum. At the period when at the commencement of the next Volume. pective sections, and explain the advanpence per annum. At the period when at the commencement of the next volume, lages that would result, were they to our chance of success was gloomy in the The sheet will be considerably improved form, and become members of an Agriextreme, a number of very influential friends advised us to raise the price to thirty-two pages, making a yearly volume appeared so apparent, that a large profailure would be certain; and, in less and of an uniform size, and the work, that one month from the period alluded on the whole, will be published in a style used their names, paid their subscriptions, that the period alluded on the whole, will be published in a style used their influence with their neighto, we announced to our patrons, that, that would be highly creditable to much bours, and immediately participated in the upon certain conditions, this Journal would be afforded for the lowest minimum older countries. price; in fact, that the price would be merely nominal, when compared with the Second Volume are considerable, and and show of stock, held in the Townwere, that each farmer who desired to the back numbers of the current Volume ing of a Journal devoted to the promored a Canadian Agricultural Journal will be disposed of to subscribers before the close of the present year, we feel their own country.

The back numbers of the current Volume ing of a Journal devoted to the promotion of Agriculture, and published in the close of the present year, we feel their own country.

We were lately in company with one triends and Agriculture, and the close of the present year, we feel their own country. among his circle of friends, to assist in copies of the Second Volume may be stablishing a Township, a District, and a National Agricultural Society, we are happy to say that this advice has been followed in upwards of four thousand act wisely by embracing this bargain. instances, and that all are becoming a satisfied that they are engaged in a most zation of Township Branch Societies, on true one, that similar causes produce patriotic enterprise, and one that will, the plan adopted in the Home and Mid similar effects; and as we believe that who facilitate its progress.

We feel that we owe a great obligation be put forth on our part, to recompense alluded to.

such farmers, by storing the columns of the Cultivator with valuable informa-

Although the change has secured an increased circulation, still it must not be supposed that we are making gain by the enterprise; for, if the receipts meet our actual expenses during the current year, it will be even more than we anticipate. At the price at which the Cultivator is now afforded, it would require a circulation of 10,000 copies to leave a net supporting profit to the publisher. This circulation may be had, if those who now read, and approve of its contents, would bours, and endeavour, as we have done, to advance the science, and improve the the welfare of the Agricultural interest, there can be no manuer of doubt.

In conclusion, we would say to all, let the day.

## NEW SERIES.

A LIBERAL OFFER.

The proprietor of the Cultivator begs to announce to his patrons, that it his and enlarged, each number containing cultural Society: and those advantages dent that if we followed the advice that of 381 pages. The type will be new, portion of the influential and wealthy

merits of the work. Those conditions as there is a certainty that the whole of ship, and were favoured with the readtural Society, and use his influence friends and Agents, that five complete of the principal officers of the Whitby

## AUXILIARY BRANCH AGRICULTURAL SOCIETIES.

As an encouragement to the organization of Township Branch Societies, we would beg to furnish the following list of amounts that the Branch Societies are to receive from the funds of the Home District Agricultural Societies :--

Whitby,	£40	0
Fourth Kiding,	15	0
Vaughan,	15	0
Markham,	12	10
York,	11	5
Albion,	11	5
Scarbro,	11	5
Toronto Township,	10	10

The amount that each receives is in practice of Agriculture in this highly-proportion to the gross amount that each lavoured country. That such exertions Society has raised by subscriptions durwill be put forth by the intelligent and ing the present year, up to the period of discriminating public we have good their last quarterly meeting. It will be grounds for entertaining the belief, and seen that the Society for the Town-that all parties will unite in promoting ship of Whitby have far eclipsed the other Societies in this laudable race for the encouragement of Agricultural improvement; and to the officers of that 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 attributed. The Township was laid off into eighteen sections, and the most influential men in each were elected to the office of Directors. The duty of the Directors was to call upon every individual at all likely to intention to commence a New Series, support such an institution, in their resfirst-fruits of their investment, by at-

ere long, redound to the benefit of their land Districts, the Proprietor takes this the great movement that is now in procommon country, and to the credit of all opportunity to state, that he would for gress will be a means of ultimately ward one hundred full sets of the Second elevating this country to that high and Volume of the Cultivator to the Secre-exalted station that it so richly merits, to our friends, who have so frankly come tary or President of any District Society we would urge upon our friends in the forward, and alleviated our toils to a conthat would engage in the enterprise of other Townships of the District to follow siderable degree; and we can assure organizing Branch Societies in the Town the noble example set them in Whitby; them that every possible endeavour shall ships, in conformity with the plan before and whilst we would advise this course to those who have been less successful than

participated in the movement, we would farming. urge upon our friends in other Districts of the Province to follow the example as soon as practicable—that excellent and praise-worthy example set them by their fellow-farmers of the Home District.

The benefits to be derived from participating in this patriotic movement could not be even faintly described, were we to devote pages to the subject; suffice it to say, that, very shortly, a flood of information will burst in upon the Canadian husbandman, through the agency of Agricultural, Societies, based upon the soundest principles, which will of itself recompence those who have been foremost in the ranks in aiding in the accomplishment of this truly great work.

# HOME DISTRICT PLOUGHING MATCH.

The District Ploughing Match took place on the 8th ultimo, on the Union Race Course, a short distance east of the city of Toronto, and was, without exception, the most splendid performance of the kind that we ever witnessed. 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 occasion.

The successful competitors were :-FIRST CLASS.

1st best, Walter Delzail, Vaughan. and best, James Sanderson, Scarbro.

SECOND CLASS. 1st best, Win. Crone, jun., Scarbro. 2nd best, James Johnston, York. 2rd best, Chas. Shepherd, York.

THIRD CLASS. 1st best, Alexander Gibb, jun., York. 2nd best, David Montgomery, York. Itinges.

John Torrance, George 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 individuals who ploughed the lots, were also in as great a state of suspense as the ploughmen and the numerous body of speciators. The President of the Society, W. B. Jarvis, Esq, announced who were the successful competitors, and addressed himself to each individual, in a manner highly calculated to flatter those who had at improvement and competition in this tries.

the Township in question, and also to particular branch, which is acknowledged those in the District who have not yet on all hands to be the root of good

## AGRICULTURE IN THE SISTER PROVINCES.

Our renders will, no doubt, recollect, that, on a former occasion, we entered considerably into the detail of the state of agriculture, in the Provinces of Nova Scotta 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 will also, no doubt, be remembered, that the weight of wheat, and other grains in those Colonies qui e exceeded any thing of the kind that we have elsewhere seen on record. have now before us a lengthy report of the Gloucester County agricultural society, in which it is stated that spring white wheat grown in the Country, by three different farmers, of the name of Gairn Kerr, Thomas Mellar, and John Richey, equalled severally, per bushel, the extraordinary, and we may add, the unparalleled weight of sixty-eight and a half pounds per Winchester bushel. The heaviest sample of four-rowed barley, grown in the Country, equalled 56\$ lbs. per bushel; of oats, 46lbs. and of white per 681 lbs. per bushel. It is stated 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 salely state the average weight of wheat and barley throughout the northern part of the country to be about sixty-four for the former and fifty-working model of a machine which is considered three nounds for the latter. The excelthree pounds for the latter. The excel-lence of our soil is becoming known and It is the application of the power of the screen appreciated; cultivation will extend; and to the wheel machiners, whereby the gam of the power is so great that, with a screw weighing in corn, at least, improvement must conform one to one and a half tons, a man would be tinue, through assiduity and skill, until the weight of our wheat reach seventypounds per bushel, our barley fifty-eight to sixty pounds, and our oals forty-eight to fifty."

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 64lbs. per bushel it is thought to be something very extraordinary; at the same time Canada is emphatically a wheat growing country; and by judicious culture 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 honour of being the champions of the line Canadian farmers, both by advice day; and he urged upon those who were and example, to equal, if not excel if less successful to make further attempts possible, the agriculturists of other coun-

### PEAR TREES IN A DISEASED CONDITION.

A Correspondent advises those whose Pear Trees 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, und the tree cured. Dead branches, that have been entirely or partially destroyed. must be cut off, immediately 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 by probing those spots which indicate tho disease with a sharp knife, when the surface is removed. the colour will show its state. The operation must take place in June.

"Ought Polatoes to be cut or Planted Whole?"—I am in the habit of planting five or six acres of potatees yearly, and for the last two years I have planted the greater part with whole potatoes, and find they produce as good crops as with cut set, with this advantage, I have scarcely a potatue misses growing, whereas in cut sets I have often had a great loss from dry rot. When taking up the general crop, I pick out my aced potatoes of a uniform size, each weighing about 14 oz. I plant them in rows two feet a part, and one foot in the row, and have had exceedingly good crops.—Agricultural Gazette.

Cure for the Grubs .- Make a strong decection of .a.e tea, d.ench in the usual way, will toon expel the gubt. Last summer, I had a mare that was very sick—she was up and down, rolling and tumbling; and, from the symptoms, I had just reasons to think it was the grubs-and, I had just reasons to the was a good remedy, I prepared a tea and drenched once, and in a short time the mare was relieved. She did not lie down, and roll and tumble about, after the tea was given. Southern Culticator.

An Invention. The Baltimore Sun able to propel a train of cars on a railroad with as much force and velocity as is new attended by the locomotive. It occupies but a small space, and can be applied to any kind of wheel machinery. By reason of the infirmities of age, together with pecuniary embarrassments; he has been, thus far, unable to have an effective machine constructed, and his wish now is to call public attention to the subject, in the hope that some enterprising persons may be induced to embark in the enterprise.

Rats.-Seeing that you recommend "Nemo" to smear the holes and passages frequented by rats with arsenical ointment, I beg to the use of poison, perhaps some other method might be acceptable. Slice a number of corks as thin as sixpences, and then roast or stew them in grease, and lay them in the way of the rais; these will prove a delicacy, and will be speedily devoured; the rats that partake of them will die of indisponge into small pieces, and fried and dipped in honey; these are placed along with shallow pans of water in the neighbourhood of their holes. By eating the spunge, and then satisfying the thirst which it prodoced, their stomach's become an distended, that it generally proves a fatal re re-

## AN AMERICAN HERD BOOK.

The inconvenience arising from the rous body of breeders. greatly felt in the United States, and with the rapid multiplication of our herds, is sustain an effort to accomplish it. It is Herd Book a perfect record of every continuable incomplish in the latest and the results in the results continually increasing. There may now a labour involving industry, research and one's genealogy.

An index conta bred Shert Horn cattle on this side the tion, demanding no ordinary degree of sidence of every breeder whose cattle Atlantic, distributed in the hands of perhaps five hundred different breeders, admissions within its pages. It may, These animals, in most cases, have been perhaps, be deemed an act of presump- of every animal, and the page on which selected from among the best herds in then in the undersigned to assume this it is recorded. England, and imported at great expense, responsibility; but he can only answer and their descendants widely dissemina- that some one must undertake it, if it be and accurate history of the Short Horn ted into every State of our Union and the undertaken at all; and having been a breed of cattle, drawn up from the best Canadas. Strict attention has been considerable breeder of Short Horns for English authorities, together with a pargiven to their breeding, and great care bestowed to maintain their original excellence. The climate and soils of America have proved congenial to their growth and from the rapidity with which they have multiplied, and their present comparative cheapness, we may anticipate that but few further importations will be made from abroad. Still the decided ad ed without mature reflection, and after vantages conferred upon one of the most important branches of our agriculture by the introduction of the Short Horns into this country, have distinctly established co-operation of skillul and experienced them as a race to be perpetuated in their purity; and the progressive improvement the integrity of its execution the underin American husbandry is a sufficient signed will be solely responsible. guarantee that they will bereafter mainthe standard of American cattle.

So important was it esteemed by the Short Horn breeders of England to establish and record the lineage of their unfirst volume of Coates' Herd Book was published, containing the pedigrees of to time been issued, a d another is now in the press, embracing altogether a list of probably 12,000 cattle.

In the great mass of these, the American breeder has little interest, although many of our citizens have encountered the inconvenience and expense of transfor 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 dollars, are subjects not unworthy of together with the necessary evidence of ammonical water from the gas-works, to the conconsideration; add to this the probability their correctness, that it may be issued astency of thin paint. This composition appears of errors in printing the registry at such as early as the spring of 1845. of errors in printing the registry at such as early as the spring of 1845. a distance, where corrections can hardly be made, together with the possession of no greater assurance for the integrity of ting and publication, a small charge for the records than may be found at home, admission will be required, say from and the propriety of atonce establishing an twenty-five to fifty cents for each animal, American Herd Book, will be apparent, as the number may determine.

A work of this kind has long been agitated by various gentlemen connected plates being furnished by the owners, will with cattle breeding in America; but no be inserted with the register.

one has hitherto ventured the experiment, although earnestly called for by a nume-

Its demand then being conceded, it firmness and decision in resisting undue country, he considers his observation and bles. experience, together with a familiar acquaintance with the volumes of the English Herd Book, somewhat of a guarantee for the performance. Be it tementbered, however, that the task is not assumthe repeated solicitations of several distinguished breeders in different sections of the United Stat's; and if pursued, the individuals will be rendered.

As this work is not proposed in the tain their exalted character in elevating anticipation of private gain, so neither will it be expected to involve pecuniary loss. It is therefore necessary to ascertain the extent o' encouragement which will be given to it before proceeding; rivalled herds, that in the year 1822 the and for that purpose the undersigned respectfully asks the publication of this notice by the agricultural press generally in the United States and the Canadian over 2,500 animals; and so strongly has in the United States and the Canadian the public mind sanctioned the utility of Provinces, for which together with a the work and its continuance, that three copy of the paper containing it, directed successive supplements have from time to him, he will present the proprietor with a copy of the work, if prosecuted.

He 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 from the absence of a domestic record to register, together with the number of copies they will take. If a sufficient number of responses are made to encoumitting a list of their herds to England rage the undertaking, the work will pro-for registry. A moments reflection will ceed; if not it will be given up. The determination of going on with it will be announced through the agricultural papers as early as September next, and those proposing to patronize the work will then be notified to forward their respective registers of cattle immediately, together with the necessary evidence of

As it is not expected that the sales of the book will more than pay for the prin-

Well executed portraits of animals, the

The full pedigro of each animal will be given, running back through its whole extent in the English Hord Book, if thus furnished, together with its reference

An index containing the name and reare registered, will be inserted.

Another index will contain the name

The work will be prefaced with a full many years, and more or less conversant ticular account of their extraordinary prowith most of the principal herds of this doctions both in the dairy and at the sham-

> It will be executed us near as possible in the style of an English Herd Book, well bound, and delivered to subscribers at a price not exceeding three dollars a copy, either at New York, Albany, or Buffalo, at their option.

> > Lewis F. Allen.

Black Rock, N. Y., April, 1844.

For the Brush American Cultivator. (CONTINUED FROM THE MARCH NUMBER.)

#### CHERRIES.

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 Heart, and the black Tartarian. The common little red Cherry of the country is hardly worth cultivating, if better can be got, except for planting at our corners, for the purpose of engaging the birds, and keeping them away from the better varieties, for which it, (as well as the green or wild cherry of the woods, which is also a very ornamental tree,) may be very useful. But still if it wishes to enjoy a lengthened succession of ripe fruits through the summer, ought to have Cherries of some

ANDREW WILLAMSON.

Fairy Knowe, March, 1844.

Wash for Fruit Trees .- You constantly recommend that Fruit-trees should be done over with lime as a wash. Nothing can look more frightful than their glaring conspicious trunks on a hot summer's day; and to obviate this dis-sight I use cow dung, soot, or woodsah, mixed up with urine, the drainage of a dung-mix, or and the trunks of the trees appear lessened, and altogether much more pleasing to the eye.

Hoarseness.—One drachm of freshly scraped horse radish root, to be infused with four ounces of water, in a close vessel, for two hours, and mide into a syrup, with double its weight in vinegar, is an improved remedy for hourseness; a tea-spoonful has of on proved effectual; a few tea-spoonfuls, it is said, have never been known to fail in removing boarseness.

#### ROAD MAKING.

#### TO THE EDITOR OF THE EXAMINER.

In your number of the 22nd inst., I netice a communication under the signature of a "Subscriber," on the subject of Road making, whose principal object apparently is, to call public attention to the praiseworthy enterprise, and efforts of a company for constructing a Plank Road, (some where West of Toronto,) from the Peacock Inn, to the Albion Road. Now while I have not the slightest disposition to detract a single Iota from all the commendation that your correspondent has passed on the beautiful country in the neighbourhood of Weston, and no doubt, the road in question, will be of vast importance to the whole surrounding country, (either directly, or indirectly.)
I may be permitted to correct an error, he has no doubt unintentionally fallen into, and while on the subject venture a passing remark on another section of the country viz, the Township of WHITEY, which I verily believe can suffer nothing, nor need fear a comparison with any other Tewnship or part of British North America in reference to its natural advantages, in Harbours, Water-power, Soil, Climute, Intelligence, Wealth, Industry, Production, Exports and Imports, and which in my hurable opinion will, in a very short time be the reack Township of Canada. Say in less than to years.

The error to which I tefer, is, where he remarks "it, (neuning the Peacock Plank Road) will also set a good example, the first of the kind in the Province." Now if there is any merit in setting the first example of the kind, unfortunately correspondents favourite spot is shorn of that honour, and fortunately for my favourite, the mantle falls gently on WHITEY. More than three years ago, a company of spirited individuals, were chartered and organized, who have raised by shares of £6 5s 01. each, (not by Government loans, never to be repaid, but by bonafide instalments,) and expended constructing a plank road 16 feet wide, from Perry's corners on the York road, to that safe and well known Harbour Windsor Bay, and in erecting a large, and commodious whart and watchouse, (which I have no hesitation in asserting to be equal if not superior to any in the Province, costing upwards of £3000 and which has been for more than two years in successful operation, yielding to the en-terprising stockholders a dividend of 12 per cent.

Thus it may be observed; that while your Correspondent in a most praiseworthy manner, passed down his name for £10, to the Peacock Road, without regard to a return in the shape of present or remote, direct dividends (an example I am sorry to see so seldom followed by those who have the means, and ought to be foremost, but who ex-hibit centrable indifference, and apathy in such matters,) here the subscribers to the Windsor Road Company are again on the vantege ground, they are not only entitled to the merit of being the first, but of exercising a happy and sound judgment in selecting a locality for operation, which is amply proved by the dividends above mentioned. Now although I must express my predilection in favour of first making improvements in those localities where the tolls would yield a fair return for the outlay,-I am not one of those who deny that a case may not arise, where improvements may be made, extending vast advantages to the whole surrounding county (in an indirect way,) far excoeding the expense of constructing, and yet the tolls fall short of reimbursing. What I mean is, that if only one improvement is to be undertaken. and two localities present themselves for choice, I would invariably chose the one most likely to yield an immediate and direct return, for I hold it to be self-evident that in all cases (in road improvements) that the indirect return or advantage to the country, is in exact proportion to the direct receipts or returns.

Now in contemplating the vast and fertile country in the interior for which Whitby is the natural try in the interior for which Whitby is the natural confer a favour by copying, and other prints will outlet and inlet, it is impossible to form any idea of what will be the business or profit of the Windstor Road Company, in a few years to come, if the Subscriber" an Insertion.

Whitby, 27th May, 1844.

be in 1853-it is to be recollected that Whitby as well as the back Townships, are only in their lufancy, it is not over ten or twelve years ago, that very little was known of Whitby, back of the main or York road, at which time one small vessel was capable of carrying all its exports at one cargo, while a return (taken i y the Collector of Customs at this port) now before me for 1843, set down the value at £44,746 10s 4d, and which from my own knowledge is far short of the whole amount. The return only gives what was shipped from regular warehouses, and even in this, it has omitted altogether the article of grass-seed, value say, £500—and it is well known that great quantities of Potatoes, Oats and Lumber is shipped from the shores outside the Harbour and Warehouses, and corn and wheat, therefore I conclude if the amount had been set down in round numbers at £50,000 it would have been much nearer the mark. It is hardly possible for the mind to imagine what the exports may in a very short time swell to. If, during the 10 or 12 years passed, it has made such rapid strides white in comparative weakness what with its present intelliger ce, wealth, strength and develope nents, 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 enumerated, that (fortunately) several years ago the Hon. H. H. Kilfaly, whose quick and discerning perception of practical fields and localities for improvements, happened to pass through the Township of Whitby and back country, and with one glance saw the importance of connecting by a portugo road, of only 18 miles distance, Windsor Bay to the navigable waters of Lake Scugog, and other navigable Lakes connected therewith, extending from 80 to 100 miles through a most picture-eque, healthy and fertile country. He also observed that a most engible line of road could be got brinching from the said portage road into the fifth concession of Reach. through the centre of that Township, and the Fownship of Brock, Thoro, and Mars, to the narrows of Lake Simcoo (where a bridge is now building, under the direction of the Board of Works,) and from thence through Orilla, Midonta, and Tay, to the navigable waters of Lake Huron, in Gloucester Bay, from 30 to 40 miles shorter than any other rout, between the lakes, now all those objects are in the course of realization, the weeks at Windsor Harbour are in a state of forwardness, under the direction of the Board of Works (happily presided over) by the Hon projector of those vast and useful improxements which, when completed, (will all things considered) be the best on the Northern shores of the great Lakes. The Lock at Purdy's Mill in Ops is completed,

which perfects the backwater navigation. The 18 miles portage road is under contract and comwhich perfects the backwater navigation. menced, and is to be completed by the first of November. (The plack is on the ground.) and no doubt the above mentioned branch from the 5th Concession of Reach to Gloucester Bay, will, in the course of another year. (if not so made as to war-rant putting up Toll Gates.) will be opened and so improved as to be a good ordinary road for all practical purposes for some years, and until the country becomes more densely settled (building the bridge at the narrows shows that so much will be done at any rate immediately, and is a sufficient guarantee that the branch road is in contemplation)

The above description, or rather facts, are the data on which I predict what will be the future prospects, and vast importance of Whithy, and Windsor Harbour, and a very short time will show that the nicture is not overdrawn, and that even more will be realized than it is possible now to ima-

When I commenced this scrawl, it was my intention to throw out some ideas that have occurred to me in regard to the cheapest and best mode of constructing plank roads, but I fear the present length of this article, will exclude its insertion, and therefore dare not extend it, if however this finds a favourable reception I will resume the subject at some fu ure period.

iod. I am, yours &c., WHITBY.

P.S. The Cultivator, Bunner, and Globe will

Scours in Calves.-Lovett Peters, Esq, in a communication in the New England Far, in a communication in the cover age of Farmer, says he has tried most of the remedies recommended for this disease, but has found the following to succeed better than any other. "Is following to succeed better than any other. "Is is a half pint of cider, and as much blood, takes from the culf's neck, shook well together, and given it with a bottle."

#### CONTROLLING THE HORSE.

The 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 man once owned a fine family horse who had every desirable quality, except that he would take freight and run at the sight or noise of a drum. This rendered him unsafe; 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 employed to beat a drum. The horse as usual was unmanageable, and the rider rolled his sides with his spurs, and plied the lash most unsparingly. But it was all in vain, all rendered the animal more ferocious, until he became trantic with fear; the owner abandoned the hope of ever rendering him a safe family horse, and sold him at a reduced price. The 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 whirled 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 became bold enough to nibble a little; and after many sufferings and whirlings he cat the whole. The next day the process was repeated with com-paratively little trouble; and it was renewed from day to day until the horse grew fond of a drum, and would run towards it whenever he heard it beat .-Pro. Olmstead.

## A CHEAP PAINT.

Take one bushel of unslacked lime and slack it with cold water; when slacked, add to it 20lbs 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 after reducing with cold water. This is intended for the outside of buildings, or where it is exposed to the weather. In order to give a good colour, three coats are necessary on brick and two on wood. It may be laid on witha brush similar to whitewash. Each coat must have sufficient time to dry before the next is applied.

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

I have used it on brick, and find it well calculated to preserve them-it is far prefcrable to oil paint. I have also used it

on planed siding or boards.

You can make any color you please. If you wish straw color, use yellow Ochre instead of whiting; for lemon color Ochre color, Lampblack ; for blue, Indi- in this case is said to be resolved. og; for green, Chrome Green. The different kinds of paint will not cost more than one fourth as much as oil paints, including the labour of putting on .- Ontario Freunan.

## ON THE DISEASES OF HORNED 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 Anatomy and Physiology of Neat Cattle: by Francis Claier; External inflammation sometimes results from edited, revised, and almost re-written, causes which affect the whole system, but the delphia: Lea and Blanchard. 1844.

us, by the pullishers. We have perused and in the timbs in quarter evil. it with much interest, and pronounce it a most valuable work, which should be in to be ascribed to the increased quantity of blood the hands of every Canadian former passing through it. Every little vessel as disthe hands of every Canadian farmer. passing through it Every little vessel is dis-We know of no better method of repayand agents who are in the trade, in the hope that they will take steps to introduce blood is changed from arterial to venous, and it into this market, so that every farmer it is while this change is effecting that animal who feels a pride in devoting his attention to the improvement of his stock of a great deal more than the natural quantity of blood is passing through these vessels: a great blood is passing through the passing horned cattle and sheep, may avail him- deal more is changed from arterial to venous; self of the practical directions laid down in its pages.

By way of adding variety to the information contained in the Cultivator, we neighbouring parts, and also the pressure of the propose to extract occasionally from the natural deposit produced by inflammation. work under notice; and hope that our nerves of sensibility likewise unite very freely readers will be benefitted, as we have with the nerves of another order that supply the been, by its perusal.

# CHAPTER I.

Inflammation.

Iteff immation is the most frequent diseased con dition to which neat caule are subject. may be owing to their peculiar organization in respect to the four stomachs, in which the load is completely prepared and digested, so as to yield all its nutriment. This complicated apparatus was necessary in the animals that were destined to afford us so much liquid nutriment that is not quickly accompanied by fever and while living, and good at and flesh when dead, that fever and the degree of it are each posed to an occasional redundancy of blood in the system, and consequently to inflammation.

External inflammation is known by the part being swollen, tender, and hotter than in its patienal state. In garget or downfall of the udder, which is an inflummation of one or more quarters of the bng, the affected parts are swollen, before us. tender, and hot.

on wood, and assure you that it will last consequences of inflammation, or one of the longer on rough s ding than oil paint will methods by which the part, and the constitution on planed siding or locals. denominated the suppurative process.

Should, however, the downfall be judiciously treated, the swelling subsides, and the heat and tenderness gradually vanish: the inflammation in this case is said to be resolved. This is most to be wished for, and should always be attempted to inflammatory complaints.

In black-leg, a disease frequent in young cattle, the offected part loses its sensibility, and becomes dark-coloured, and 12 asid to be morti field. It is then speedily separated, or ought to be separated from the living portions around. Mortification is usually the result of rollent inflammation, by which the texture of the part is speedily broken down, and its vitality destroyed.

External inflammation most frequently proceeds from wounds, or bruises, or other accidents to which cattle are liable. These produce to which cattle are liable. These produce different degrees of diseases, according to the severity of the injury; and when the inflamma-

by William Youatt, author of the chief mischief of which is determined to particu-Horse, &c.; with numerous Addition of the contents of which is attermined to particularly the parts, from previous weakness in them, or disposition to take our inflammation. This is the case with inflammation of the udder of cows, or the joints of young cattle. The whole frame exc., by John S. Skinner; with numerous Cuts and Hustrations. Philametric and Hustrations. Philametric and Hustrations are considered to which the description of which is a large with inflammation of the udder of the cow that had lately calved was very much disposed to inflammation, and the ionits of young posed to influmination, and the joints of young cattle had not acquired their full strength. In A very neat octave volume, of 251 inflammatory fever, also, the inflammation will pages, with the above title, has been sent impossible to explain, as in the tengue in blein

The swelling of the inflamed part is principally carry : and there is likewise a greater deposition ing the compliment, to the publishers, of fluid and solid matter in the cellular texture than by recommending the work to the of the inflamed part: for every secretory vessel favourable notice of such of our friends is doing increased duty in proportion to the blood

In the minute ramifications of the vessels, the and a-great deal more heat must necessarily be evolved

The tenderness is caused by unnatural distension of the vessels, and by their pressure on the capillaries; and when the nerves of the capillaries are irritated, those of sensibility will become critable too, and the part will become so tender as not to be touched without extreme pain.

Internal Inflammation.

Internal inflammation is characterised by other and often more indistinct sympoms. We can here seldom ascertain the dieat or tendernees or swelling of the part, and can usually only judge of the complaint by the effect which it produces on the system. Every internal inflammation does, however, soon affect the system. There is no inflammation of any important internal part tained, by the heat of the breath and the mouth and the base of the born, by the redness of the eye, and the frequency and hardness of the pulse, the loss of appetite, and, often, the cessation of rumination.

The symptoms of internal inflammation will be related as the inflammation of each part comes

Whether inflammation is internal or external, If this state of the hag is neglected, matter or resolution is to be attempted, or, in other words, pus will probably be formed. This is one of the the inflammation is to be subdued.

When it seizes any important organ, astile brain, lungs, bowels, hidneys, eyes, udder, or womb, bleeding is to be immediately hed recourse to; and, after bleeding, a purging drink is to be administered: cometimes it is necessary to insert a secon in the dew-lap.

In external inflammation from severe bruises, wounds, and other accidents, fomentation t th warm water, poultices made of inseed meal—when they can be applied—and the purging drink (No. 2), give much relief. If external inflammation is considerable, it will always be necessary to bleed the beast.

#### CHAPTER II.

Bleeding, its Utility-and in what Cases necessary.

Bleeding is a most useful and powerful remedy in the cure of inflammatory complaints. It lessens the quantity of blood in the vessels, and diminishes nervous power. The following are the chief diseases in which bleeding is required :-

- 1. Where animals in a thriving state rad themselves until the hair comes off, and the spei is covered with a dry scab; while at the same time the eyes appear dull, languid, red, er inflamed, the breath hot, and the verus puffed up, and considerably larger than usual.
- 2. In all kinds of inflammatory diseases, as of the brain, lungs, kidneys, bowels, eyes, womb, bladder, shape, and udder, or in swelling of the
- 3. In the disease called blain, and in which bleeding, not only general but local, and local far more than general, has the heat possible effect, the tumefaction usually almost immediately subading, and the beast speedily recovering.
- 4. When the glands or kernels between the jaws, or those of the throat, are enlarged, and especially if they are only recently affected, immediate recourse should be had to bleeding, for otherwise the lungs will probably become diseased, and dangerous or consumptive hoose will speedily ensue.
- 5. In bruises, burts, wounds upon the head, strains in different parts, and all other accidents that may occur to the animal, and in which there is reason to apprehend considerable inflammation, bleeding will be proper.
- 6 In violent catarrh or cold, bleeding is employed; but, in slight cases, a few fever drinks will restore the an mai.
- 7. The yellows, when attended with feverish symptoms, or constipution of the bowels, requires

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

The Fleam is an i strument in general use for oxen, and the jugular or nick vein is that which is mostly opened. Local bleeding is, however, in many cases particularly serviceable. In inflammation of the eye, the eye-vein is frequently cut : in foot-halt, we sometimes bleed at the toe ; and in inflammation of the bowels, or the udder, or even of the chest, blood is advantageosuly taken from the milk-vein.

The quantity of blood that it may be proper to

take away at one time cannot here be deter-nined; but must be regulated by the size strength, and condition of the animal, and the disease under which he labours. In many inflammatory complaints too much can hardly be flammatory complaints too much can hardly be taken, provided the bleeding is stopped as soon as the patient appears likely to faint or to fall down. A strong healthy beast will bear the loss of five or six quarts of blood, without the least inflammatory complaints, will profit by the abstraction of a greater quantity; seven or eight quarts may be taken away with deeded advanting: but when it is necessary to repeat the bleeding, the degree of fever and the strength of bleeding, the degree of fever and the strength of the beast will regulate the quantity. The blood should flow from a large ortifice, for sudden depletion is far more powerful in its operation than when the blood is suffered slowly to trickly The blood must never be suffered to fall upon the ground, but should be received into a measure, in order that the quantity taken may be ever be prescribed, but when extensive bleeding instered, and repeated every twelve hours, until able effect is intended to be produced, is the root to demanded, the stream should flow until the tho desired effect is obtained: a clyster should of the black heliebore. This will very quickly pulse falters, or intermits, or the animal begans to be given, if the first drink does not operate. It cause considerable swelling as well as displeave violently, or threatens to fall, or other cir- costiveness is accompanied with pain and feverish charge. cumstances show that the system is sufficiently affected. The beast should not be permitted to drink cold water immediately after bleeding, nor to graze in the field : the former has sometimes induced troublesome catarril, and the latter may cause the orifice to opin again. If this operation is perficined in the summer season, it will be most prudent to fetch the cattle out of the pasture towards evening, in order that they may be bled; and, after that, to let them stand in the fold-yard all night, and drive them back to the field on the following morning.

#### CHAPTER III. On Physic.

Furging medicines operate by increasing the evacution of faces from the bowels, and thus often removing a very considerable source of irritation. They augment the secretion of the exhalent vessels situated on the internal coat of the intestines, and thus, by producing watery stools, lesson the quantity of fluid circulating through the system. They divert the increased flow of the blood from the affected organ, and determine it to the bowels, which is well cluci- There are many localities in which, if farmers dated in red water, and they have a peculiar did not adopt this precaution, they would lose influence on the nervous system, augmenting the energy of the nerves distributed to the intestines, but diminishing it in other parts of the system.

The chief purgatives in use for neat cattle are Glauber's salis, Epsom salts, Barbadoes aloes, Linseed oil, and Sulphur. In obstinate constipation of the bowels, ten or fifteen grains of the farms of the Croton nut, freshly prepared, may be added with good effect. One pound of Glauber's, or Epsom salts, will purge a full-sized beast. Aloes are very properly getting into Setoning with the often presembed, in the course disuse: they are uncertain in their effect, they of this treatise, in inflaminatory complaints, and require very given in order to act alone, and if they should be , toon in the neighbourhood of the former one, and received into the rumen they are apt to disgust thus lessening is itensity. This plainly proceeds and nauseare the animal. Halfan ounce, or six on the principle of diverting to another part a and nauscare the animal. Italian ounce, or six on the principle of all the particular diseases. Where there is the original one, while also a new direction is sails in particular diseases. Where there is the original one, while also a new direction is salts in particular diseases. enusiderable fever, or the attack of fever is appre- given to a portion of the nervous influence or hended, there is no purg tive so beneficial as the power which was concentrated on it. This is Ep-om salts. In bid cases, twenty-tour ounces in accordance with the generally received medimay be given at a dose, and eight ounces of cal mixm, that no two violent inflammations, of sulphur every six hours afterwards, until the different character, can exist in neighbouring full purgative effect is produced. Linseed oil is parts at the same time; and that in proportion rapidly superseding the more expensive and the 10 the intensity of the one the other will be more uncertific easter oil; the dose is from a diminished. pint to a pint and a half. As a mild aperient, and in cases where there is no great degree of fever, and a violent purge is not required, there are few better things than Sulphur. Where are few better things than Sulphur. Where nothing else is at hand, and the case is urgent, Common Salt is no consemptible medicine: a pound of it dissolved in water will produce a very fair purgative effect, but it should not be The given if the animal labours under fever. The following are the cases in which purgative medicines are found useful:-

- 1. I have known some graziers who, when feeding old cows (during summer,) have given them a purging drink about every six weeks, by way of keeping off the downfall, which in gener has had the desired effect, and has even caused them to fatten more rapidly.
- 2. A purging drink is very properly given to cows soon after calving, in order to prevent the milk fever.
- 3. Neat cattle are naturally of a greedy and ravenous disposition, and their appetite is hardly ever satisfied. Milch cows in particular, if feed ing on herbage, or other food agreeab'e to the r palate, will often continue to graze until they are in danger of suffocation. Thus the powers of in danger of suffocation. digestion become over-burdened, and the animal appears dull and heavy, and feverish symptoms are induced. Purgatives will give the most effectual relief in these cases, and if the appetite does not return soon after the physic, a cordial ball will be useful in restoring it.
- 4. Cows that are turned into fresh pastures sometimes become bound in their body, in which good seton, and one that will act speedily and

symptoms, inflammation of the bowels is to be suspected, and must be treated accordingly.

- 5. When red-water is recent, a purging drink or two will often completely remove it.
- 6. In the vellows it is generally necessary to give a purging drink, and, after that, cordial tonic drinks, in order to invigorate the digestive ergans
- 7. When medicines are given to prevent cows from slipping their calves, they are generally preceded by physic.
- 8. In all inflammatory complaints, a purging drink should be administered after the bleeding
- 9. If external inflammation, occasioned by wounds, bruises, and other causes, runs high, and affects the whole system, purgative medicines are absolutely necessary.

## CHAPTER IV.

#### On Setoning.

The utility of scioning for the cure of several diseases incident to neut cattle cannot be doubted. did not adopt this precaution, they would lose great numbers of their young from the black leg.

In some districts the hoose in calves is very prevalent and fatal: where is the case, they should all be seatoned when they are getting into condition, and before they are attacked by the disease. This will either lessen the violence of the complaint or prevent it alogether.

In joint evil, I have frequently inserted a seton in the dewlap with decided good effect.

Setoming win be often prescribed, in the course considerable doses of them to be it acts by exciting a new and artificial inflamma

> By the discharge which a seton produces it will likewise relieve the overloaded vessels of a neighbouring inflamed part.

> Mode of inserting a Seton .- The seton is commonly made of tow and horse hair planted tagether, or cord or coarso tapealone, or leather. It should be tolerably thick, and eight, ten, or twelve inches in length. Before inserting the seton, it should be dipped in oil of turpentine. The secon being now prepared, an assistant is to hold the animal, while the secon-needle, with the cord affixed to it, is plunged into the upper edge of the brisket or dewlap, and brought out again towards its lower edge: the space between the wo openings should be from four to e ghi inches. The seton is to be secured by fastening a small p.ccs of wood, or tying a large knot at either end of the cord. Matter will begin to run the second day, and, after that, the cord should be drawn back wards and forwards two or three times every day, in order to ritude the parts, and by this means increase the discharge.

> When seconing is had recourse to in inflammatory complaints, the cord should be dipped in the following birstering ointment :-

> Blistering Ointment -Take yellow basilicon. one ounce; cantharides, in powder, three drachms; spirit of torpentine, two fluid drachms

> This ointment will be found to act efficaciously and quickly in stirnulating the parts to action, and hastoning on the suppurative process.

The root of the common dock forms a very

No absolute quantity of blood should case a purging drink must be immediately admin- powerfully; but the best of all, where a consider-

#### YEAST.

We have received three recipes for making yeas', from different correspondents. Une informe us that the fellowing never falls to make light good bread:—Mash about two quarts of light good bread:—Mash about two quarts of malt in a gallon of boiling water, and let it stand about two hours, then skim it off into another small tub, and when it is sufficiently cool, add a table spoonful of yeast, which will produce a sufficient quantity for a large baking. Repeas whenever you wanta fresh supply, always keeping a little of the former yeast to make the next work; the process is the same as brewing, only without adding hups, or boiling the work. If the without adding hops, or boiling the wort. If the weather 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 rises to the top. Another states that eight gallons of excellent yeast may be made as follows :ten gallons of water, and half a pound of hops, buil them for two hours, then strain the liquor into a tub, and stir in half a peck of ground malt, mix them well together and stir occasionly; let it stand until blood-warm, then take one gallon of yeast, from 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 eight hours, then stir it up, and strain into a-barrel, and keep it well corked. The result will be about eight gallons, which has an appearance between that of thick beer and thin yeast. The method of using this yeast for the manufacture of 35 stone of bread is as follows:-Boil one and a half peck of potatoes, mash them well and strain them, add about one and a half gallon of cold water, mix them well together, then one gallon of the above patent yeast, with two pounds of flour. stir up well, and cover down for five hours prior to setting sponge, which will be ready in seven or eight hours, according to the weather; great precaution must be used in taking the sponge at the first or second fall, in order to get the bread sweet. The dough must not be allowed to lie longer than an hour in hot weather, but put into the oven as This will be found to surpass soon as possible. any brower's yeast that can be made, if properly. used. This receipt is on a larger scale, and will, of course, have to be proportionably divided for domestic use. If a smaller quantity be made, viz, a gallon or two, it will, if in a stone bottle, tightly corked, and put in a cool place, keep good for a long time. A third communication says:-Boil one ounce of hops in four quarts of water until the hops fall to the bottom of the pan, strain it, and when milk-warm, add six ounces of flour and five of sugar; set the mixture by the fire, stirring it frequently; in 48 hours add four pounds of potatoes, builed and brushed fine; next day bottle the yeast-it will keep a month. fourth of yeast, and three of warm water, is the proportion for baking.—[We have tried this, and find it a good substitute for yeast.]—Gardener's Chronicle.

#### WATER-PROOF GLUE.

Melt common glue in the smallest rossible quantity of water, and add, by drops linseed oil that has been rendered drying by having a small portion of litharge boiled in it; the glue being briskly stirred when the oil is added.

Gius will resist water, to a considerable extent,

by being disolved in skimmed milk.

The addition of a finely lovigated chalk, to a solution of common give in water, strengthens it, and renders it suitable for signs, or other werk that is exposed to the weather.

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 linseed oil and quickline. This mixture must be reduced to the consistence of soft putty. and then spread on tin plates and dried in the shade, where it will dry very hard. This may afterwards be melted like common glue, and must be used while hot.—American Methanic. (Continued from the April Number.)

AN BASY METHOD OF MANAGING BEES. TO THEIR OWNER.

The above is the title of a neatly printed manual, which was lately presented to us by Mr. David Leflar, of Churchyille, Home District. Mr. L. informs us that he has followed out in detail the directions of the author, and his efforts have been prowned with success.

If the Canadian farmers would turn their attention largely to the management of Bees, the article of honey would very shortly become a considerable item on our list of experts to England. Immense quantities of honey is imported yearly into the Mother Country from Holland and other continental countries, all of which might be supplied from this country if the people would only turn their ettention to the business.

#### RULE III.

#### On Ventilating the Hire.

Graduate the bottom board and ventilator at pleasure by means of the button or otherwise, so as to give them more or less air, as circumstances may require.

Remarks,-Bees require more air in order to enable them to endure the heat of summer and the peverity of winter, than at any other time. If they are kept out in the cold, they need as much air in the winter, as in the heat of summer. It is in a saild temperature only, that it is as o to keep them from the pure air. If placed below frost in a flry sand hank, they seem to need scarcely more than is contained in their hive at the time they are buried, during the whole winter. If kept in a are burned, during the whole winter. At kept me slean, dry cellar, the mouth so contracted as to keep out mice, give them enough. But if they are kept in the spiary, there should be a slow, imperceptible current of air censtantly passing in at the bottom and off at the top through the ventilator, to let the excess of animal heat escape in summer, and also to throw off the sapor caused by the breath and other exhalations of the bees which caused frost and ice in the hive in winter and which is frequently the cause of the death of the bees.

#### RULE IV.

## On Preventing Robbertes.

At the moment it is observed that robbers are within, or about the hive, raise the bottom to ard so near the edge of the hive as to prevent the other by degrees, and the scent of the bees in the ingress or egress of the bees, and stop the mouth lower apartment will enter through the apertures or common entrance and ventilator. At the same time, take care that a small space on all sides of time, take care that a small space on all sules of give of sameness in the peculiar smell of the two the hire be left open, so as to afford them all the lones, which takes off their ammosity, they are they need. Open the mouth only at evening to chance to have any, let out the robbers, and close early in the morning before they renew their attack.

Remarks .- Bees have a peculiar propensity to rob each other, and every precaution necessary to prevent it should be exercised by the cultivator. Families in the same apiary are more likely to to engage in this unlawful enterprize than any others, probably because they are located so near each other, and are more likely to learn their com-parative strength. I never could discover any intimacy between colonies of the same apiery, expept when they stood on the same bench; and then, all the social intercourse seems to subsist between the nearest neighbors only.

Bees are not likely to engage in warfare and rob each other, except in the spring and fall, and at other times in the season when food is not easily obtained from blossoms.

Bees do not often engage in robbery in the spring, unless it is in such hives as have had their combs breken by frast or otherwise, so as to cause the honey to drip aown upon the bottom board Much care should be exercised by the apiarica to see that all such hives are properly ventilated, and at the same time closed in such a manner as to prevent the entrance of robbers in the day time, until they have mended the breach, so as to stop the honey from running.

Clear water should be given them every day so

long as they are kept in confinement.

I have known many good stocks to be lost in the

has destroyed the flowers, or the weather is so the furthest four days. The sconer it is doze, cold as to prevent their collecting honey true the less hazardous is the experiment. N EASY METHOD OF MANAGING BEES. It was not been collecting loney trough them. Cold, chilly weather prevents flowers from yielding honey, without frost.

Bees need but little air at any time when they rob; and yet more is necessary for them when confined by compulsory means, than otherwise. When deprived of their liberty, they soon become resiless, and use their best efforts to make their way our of the lave; -hence the importance of leaving a small space oll around the bottom to admit air and to prevent their molting down, or use a screen bottom board, which is better.

#### On Equalizing Colonies.

Hive one swarm in the lower apartment of the hive; collect another swarm in a drawer, and instructe same in the chamber of the live contalking the first. Then if the swarms are small, collect another small swarm in another drawer, and insert the same in the chamber of the hive containing the first, by the side of the second. In ase all the bees, from either of the drawers, mingle and go below with the first swarm, and leave the drawer empty, then it may be removed, and another small swarm added in the same man-

Remarks.—It is of prime importance to every bee cultivator, that all his colonies be made as nearly equal innumbers and strength, as possible. Every experienced bec-masters must be aware that small swarms are of little profit to their owner. erally, in a few days after they are hived, they are gone;—ne one can trace their steps; some suppose they have fled to the woods-others, that they were robbed: but after all, no one is able to give any satisfactory account of them. Some pieces of combs only are left, and perhaps myriads of worms and millers finished off the whole. Then the moth is supposed to be their destroyer, but the true history of the case is generally this:-Ihe bees become discouraged, or disheartened, for want of numbers to constitute their colony, abandon their tenement, and join with their nearest neighbours, leaving their combs to the mercitess depredations of the moth. They are sometimes robbed by the adjoining lives, and then the moths finished or

destroy what is left.

When bees are collected in drawers for the purpose of equalizing colonies, by doubling. &c., they should be permitted to stand until evening before they are united, it being a more favorable time for them to occome acquainted with each during the night so much that there is a great de-

Second awarms are generally about half as large as the first, and third awarms hait as large as second ones.

Now if second swarms are doub! d. so as to make them equal in number with the first, the owner avails himself of the advantage of a strong colony, which will not be likely to become disheartened for want of numbers, nor overcome by robbers from stronger colonies.

It is tar less trouble, and less expense, for the bee-owner to equalize his colonies, than to pre-pare hives and drawers of different sizes of fit colontes.

When colonies and hive are made as near alike as possible, many evils are avoided, and many antages real zed: every hive will fit a place in the apiany-every drawer a hive, and every bottom board and slide may in any case be used without mistakes.

Swarm may be doubled at any time before they become so located as to resume their former hostility, which will not be discovered bet ro they form a rational character and acquire rights of property. Bees are provided with a reservoir, or sack, to carry their provision in, and when they swarm, they go loaded with provision soited to their emergercy, which takes off all their hostility towards each other; and until these sacks are emptied, they are not easily vexed, and as they are compelled to build combs before they can empty them, their contents are retained several

As a general rule, second swarm only should be doubled. Third and fourth swarm should always have their Queens taken from them, and the bees returned to the parent stock, according to Rule

#### RULE VI.

#### On Removing Honey.

Insert a slide under the drawer, so far as to cut off all communication between the lower apartment and the drawer. Now draw out the box containing the honey, with the slide that is next to it. Set the drawer on its window end, a little distance from the spiary, and remove the shide. Now supply the place of the drawer, thus removed, with an empty one, and draw the first inserted stide.

Remarks .- Care must be exercised in performing this operation. The apertures through the floor in the chamber must be kept closed by the slides during the process, so as to keep the bees from rushing up into the chamber when the bez is drawn out. The operator must likewise see that the entrances into the drawer are kept covered with the slide, in such a manner as to prevent the escape of any of the bees, unless he is willing to be stung by them. If the bees are permitted to enter the chamber in very warm weather, they
will be likely to hold the occupancy of it, and
build comb there, which will change the hive laso
one no better than an old fashoned box.

I have succeeded best in expelling the bess from the drawer, by the following method, to wit:—Shut the windowblinds so as to darken one of the rooms in the dwelling-house-raise up one casement of a window-then carry the drawer one casement of a window—then carry the arawer and place the same on a table, or stand, by the window, on its light, or glass end, with the apertures towards the light. Now remove the slde, and step immediately back into the dark part of the room. The bees will soon learn their true condition, and will gradually leave the drawer, and return home to the parent stock; thus leaving the drawer and its contents for their owner; not however until they have sucked every drop of running honey, if there should cheace to be say, which is not often the ease, if their work is finished.

There are two cases in which the bees manifest some reluctance in leaving the drawer. is, when the combs are in an unfinished statesome of the cells not sealed over. The been manifest a great desire to remain there, probably to make their stores more secure from robbers, by affixing caps to the uncovered cells, to prevent the effluvia of running honey, which is always il o greate est temptation to robbers.

Bees manifest the greatest reluctance in leaving the drawer, when young broods are removed in it, which does not often occur, except in such drawers as have been used for feeding in the winter or early in the spring. When the Queen has de-posited eggs in all the empty cells below, she sometimes enters the drawers; and if empty cells are found, she deposites eggs there also. In either case, it is better to return the drawer, which will be made perfect by them in a few days.

Bees rever make honey, but extract it from auch 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-maple, bass, and other forest trees, while in blossom Por honey is extracted from while in blassom buckwheat, and low land flowers, hence those who would save their good honey unadulterated by that which is poor, will remove it before the latter can be extracted.

Special care is necessary in storing drawers of honey, when removed from the care and protection of the bees, in order to preserve the honey from insects, particularly the ant. A chest, made per-

fectly tight, 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 so warm as not to freeze. Frost cracks the combs, and the honey will drop as soon as warm weather commences. Drawers should be packed with their apertures up, for keeping or carrying to market. All Apparans who would make the most profit from their bees, should remove the honey as soon spring by being robbed; and all for want of care days. I have doubled, at a fortnight's interval in from their bees, should remove the honey as seen Bees rob each other when they can find but butle swarming, with cutno success. The operation as the drawers are filled, and supply their places discovered; they will rebut up turns when from should be renformed within two of three days—as such comply cass. The bees will commence their as the drawers are filled, and supply their places

should be turned so as to let the bees into them as early in the spring as blossoms are seen.

The Method of compelling Swarms to make and keep extra Queens for their Apiarian, or Owner.

Take a drawer containing bees and brood comb, and place the same in the chamber of an empty hive, take care to stop the entrance of the hive, and give them clean water daily, three or four Then unstep the mouth of the hive and give them liberty. The operator must observe Rule six in using the clides, in removing the box from the original hive.

Remarks .- The prosperny of every colony deends antirely on the condition of the Queen, when the season is favourable to them.

Every bee-master should understand their na ture in this respect, so as to enable him to be in readiness to supply them with another Queen when they chance to become destitute.

The discovery of the fact, that bees have power to change the nature of the grub (larca) of a worker to that of a Queen, is attributed to Bonner. But neither Bonner nor the indefatigable Huber. nor ary other writer, to my knowledge, has gone in the illustration of this discovery as to render it practicable and easy for common people to avail themselves of its benefits.

The Vermont hive is the only one, to my know ledge, in which bees can be compelled to make and keep extra Queens for the use of their owner, without extreme difficulty, as well as danger, by stinge, in attempting the experiment.

The idea of raising her royal highness, and elevating and establishing her upon the throne of a colony, may, by same, be deemed altogether visionary and futile; but I will assure the reader, that it is easier done than can be described. I have both raised them, and supplied destitute awarms

repeatedly.
When the drawer containing bees and brood comb is removed, the bees soon find themselves destitute of a female, and immediately set themselves to work in constructing one or more royal cells. When completed, which is commonly within forty-eight hours, they remove a grub (larca) from the worker's cell, place the same in the new-made Queen's cell, feed it on that kind of food which is designed 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 have their liberty. Their attachment to their young brood, and their fidelity to their Queen, in any stage of its minority, is such that they will never leave nor forsake them, and will continue all their ordinary labours, with as much regularity

as if they had a perfect Queen.
In making Queen's in small boxes or drawers. the owner will not be troubled by their swarming the same season they are made. There are so few bees in the drawer, they are unable to guard the nymph Queens, if there are any from being destroyed by the oldest, or the one which escapes from her cell first.

In examining the drawer, in which I raised an extra Queen, I found not only the Queen, but two royal cells, one of which was in perfect shape; the other was mutilated, probably by the Queen which came out first. Now when there are few bees to guard the nymphs, it would not be very difficult for the oldest Queen to gain access to the cells and destroy all the minor queens in the drawer.

When a drawer is removed to an empty hive, for she purpose of obtaining an extra Queen, it should be placed some distance from the apiary, the better to prevent its being rabbed by other swarms When it is some distance from other colonies, they are not so likely to learn its comparative strength. There is but little danger of its being robbed, until after the bees are out of danger of losing their Queen, which generally occurs in the swarming

The Queen is sometimes lost, when the goes forth with a swarm, in consequence of being heavily laden with eggs, and too feeble to fly with her colony; in which case the bees return to their parant stock in a few minutes. It fact all occur aids, and greatly assist the apiarian in spying her rences of this kind originate in the inability of the out. She is frequently found near the ground, on Queen. If she returns to the old stock, the a spire of grass, the funce, or any place most con-

labours in an empty box that has been filled, swarm usually comes out the next day, if the sooner than any others. Drawers in old stocks, weather is favorable. If the Queen is 100 feeble to return, and the apiarian neglects to lock her up and restore her to he colony again, (which he ought to do,) the bees will not swarm egain until they have made another, or are sup; lied, which may be done immediately by giving them any spare Queen.

The Queen is sometimes lost, in consequence of the young broad being too far advanced at the time of the departure of the old Queen with her swarm She may become barren or diseased, and die of old age, and all the grubs (larra) may have advanced so far towards the perfect fly at the time of her death, that their nature could not be changed to a Queen before the bees had become apprized of her true condition, or she may be lost at second swarming, as explained in remarks on Rule second. or she may be lost by accident when she goes out of the hive into the air for exercise, or for the purpose of forming the sexual union with the drone; because, on returning to the hive, she has been known to enter her neighbour's hive by mistake, and lose her life before she could make her

Note -I think all close observers of Bees will accord with this doctrine, when they reflect upon the fact that the Queen frequently sallies forth for exercise or for other purposes, of which we see repeated indications during the breeding season, to wit: the bees assume the appearance of the commencement of swarming: they fly very thick before the hive, and run in every direction on its outside. In short, it would seem that hostilities had commenced in great earnest betwixt that and some unknown hive, or that they were in a real sport. Now the bees miss their sovereign when these peculiar feats are seen, and on her return, all

#### RULE VIII.

On Supplying Swarms Destitute of a Queen, with Another.

Take the drawer from the hive, which was placed there according to Role seven, and insert the same into the chamber of the hive to be sup plied; observing rule six in the use of the slides; or remove a box containing brood comb as above described, and the bees will make one for themselves:—or take a Queen from any small awarm, and introduce her at the mouth of the hive.

Remarks - Colonies destinate of a Queen may be supplied with another the moment it is found have none, which is known only by their actions.

Bees, when deprived of their female sovereign. cease their labours, no polen or bec-bread is seen on their legs; no ambition seems to actuate their movements; no dead bees are drawn out; no deformed bees, in the various stages of their minurity are extracted, and dragged out of their cells, and dropped down about the hive, as is usual among

all healthy and prosperous colonies.
Colonies that have lost their Queen, when stand ing on the bench by the side of other swarms, will run or fly into the adjoining hive without the least resistance. They will commence their emigration by running in confused platoons of hundreds, from their habitation to the next adjoining hive. They immediately wheel about and return home again. and thus continue, sometimes for several days, in the greatest confusion, constantly replenishing their neighbor's hive, by enlarging their Colony, and at the same time reducing their own, until there is not a single occupant left; and remarkable as it is, they leave every particle of thoir stores for their owner or the depredations of the moth.

Colonies lose their Queens more frequently duing the swarming 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 swarm ing-the two others not many days after the second swarming - all of which manifested similar actions. and ended in the same 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 so strong as to have blown her a considerable distance. A few bees are alher a considerable distance. A ways found with her, which probably serve as her

venient for her to alight, when her strength fails her. I once had quite a search for her Majesty, without much apparent success. About the same time there were flying about me a dozen or more con mon workers. At last her royal highress was discovered, concealed from my observation in a fold of my shirt-sleeve. I then eturned her to her colony, which had already found their way home to their parent stock.

The Queen may be taken in the hand without danger, for she never stings by design; her timidity disarms her of every species of hostility; she may be drawn in quarters, and she will not sting. In trying many experiments I never could discover in her, the least hostile feeling, except when conflicting with one of her cwn species; her only exertion seems to be, to make her escape; and yet she has a sting much longer than a worker.

The Queen is known by her peculiar shape, size, and movements. She differs but little in color from a worker, and has the same number of legs and wings. She is much larger and longer than any of the bees. Her abdomen is perfectly round, & is shaped more like the sugar-'oaf, which makes her known to the observer the moment she is seen. Her wings and probascis are short. Her movements are stately and mejestic; at the same time shy, and rather inclined to conceal herself from human observatic; with seeming jealousy of being caught. I have known her to remain in the air on the wing several minutes after her whole colony were alighted when I stood near the swarm. She is much less in size after the season for breeding is over. She is easily selected from among a awaim at any season of the year, by any one who has often seen her. Cut off the limb and shake he bees on a table to find the Queen.

On Multiplying Colonies to any Desirable Extent, without their Swarming.

The large drawer, No. 1, should always be used for this purpose. Insert slides, as in Rule 6, and remove the drawer containing hees and brood comb, place the same in the chamber of an empty hive, stop the entrances of both the new and old hives, taking care to give them air as in Rule 4. Give clean water daily, three or four days. Now

let the bees, in both hives, have their liberty.

Remarks.—This operation is both practical and
cosy, and is of prime importance to all cultivators, wish to avoid the necessity of hiving them when they swarm; and yet it will not prevent swarming, 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 make two or more) may swarm to avoid 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 opera-tion, it has saved the trouble of hiving one swarm, and prevented all danger of their flight to the

Multiplying colonies by this rule is a perfectly safe method of managing bees.

(To be Continued.)

# RECIPE FOR COLORING BLUE.

By L. Ellsworth.

Take two bushels purslin, (Portulaca) known as "pusley," which grows in our gardens in abundance; add a sufficient quantity of water to cover it when pressed down into the kettle, and boil until thoroughly cooked; then strain off the liquor: also one pound of ground logwood, boiled separately; disselve 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 hours; 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 soon turn to a handsome blue, on being exposed to the air. The quantity may increased or diminshed es required-opserving the above proportions. The cost is as follows :-

2 bushels purslin, ....\$0 00 

Total, .....\$0,074 for 4lbs, goods. Naperville. Ill., 1944.

#### (From the Baltimore American.) SCARLET FEVER.

As this intractable disease, in its most malignant form, has extensively prevailed during the past winter, and still continues its progress, in our city, causing many tears to flow from agonized parents, who had their darling little onessuddenly snatched from them by its ruthless grasp, I would wall 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 this country, I believe, is scarcely known, out of the profession:-

Dissolve three grains of the Extract of Belladonna in one ounce of cinnamon water (triturated together in a morter) and of this solution, give three drops in a little sugar and water, to a child ene year eld, once a day, increasing the dose one drop for every additional year in the age of the patient. In this minute dose it can do no possi-ble injury, whilst the mass of evidence in favor of in complete prophylatic power, is conclusive.

Impelled by a desire to stay the further progress of this fatal epidemic, it would afford me much satisfaction to have the above information dissemfaated, and it would be subserving the cause of humanity, to allow it a corner in the columns of your valuable sheet.

Manicus.

Baltimore, March 23rd 1844.

#### CLEANLINESS.

A strict attention to cleanliness and aweetness in our persons, houses, door yards, clothes, and furniture, not only produce a pleasing sensation to ourselves and all around us, but is also a means of preserving our health. Loathsome and even noxious vapors are often generated around dwellings, causing sickness, and perhaps death, for want of a strict attention to cleanliness. All slops and washes from the Litchen should be carefully conveyed 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 fire family and their visiting friends, and not unlikely A little flour of brimatone may be mixed with the to the lasting injury of their health. Pure water | seed while still damp. If the egg of the Turnip is sought by all as conducive to health; but air, | fly is committed to the soil with the seed, this is on which our vitals are constantly feeding, is really too much neglected

#### POTATO STARCII.

We find in the Cleveland Herald, the following method of making potato starch, which it says is the verituble Arrow-root, so highly valued for invailds:-

"Take a dozen large and smooth mealy potatees, wash them, and then corefully pare off all the rind. Next grate them fine with a suitable tin grater. The pulp must be mixed with a pailful of cold water, and thoroughly agitated and squeezed by the hand or any suitable instrument, at the same time throwing away the fibrous matter, and permitting the starch to sink to the bottom of the vessel. This must have a fresh washing in cold water, till the pure farins is obtained for from all other matter. This should be spread on earthen dishes, and dried in a warm, airy situation.

The good housewife will exclaim, 'Why this is thing but potato starch.' True, it is not—nor nothing but potato starch. True, it is not-nor have you used a sy other article under name of arrow-root, for the sick members of your famil . though you may have purchased it at the rate of

several shillings per pound.

By proper modes of cooking, known to every aurse and housekeeper, this article becomes a delightful beverage for invalids weak of digestive powers; while as a pleasant cirtary, even to persons in good health, it possesses a strong attraction.—American Agriculturist.

Invaluable Salve.—Take three carrots and grate them; place in a vessel, cover with lard, without salt if convenient. Boil thoroughly, strain, and add sufficient bee -wax to make a paste. This is a most invaluable continent or solve, for outs, burns, studds or wounds of any kind.

### SUPERIOR DUTCH GHEESE.

Take sour loppered milk, skim of the cream, then set it over the fire in an iron potbrass is poisonous. Let it remain until the curd ises, which will be when the whey is scalding hot at the bottom of the pot; there is a difference in the heat of the whey at top and be trom. Skim the curd into a basket, which is best; let it remain six or eight hours to drain, then break the curd (on a table) as fine as possible; after which put the card lightly in a stone jar, salting it to taste. Let it remain in the jar, stirring it twice a day with a wooden spoon or round stick, keep it lovee and light, until it becomes palatable to the taste of the maker. The cheese acquires a disagreeable flavor if kept too long in the jar. Make the cheese into small balls, and set them in a cellar. It should not be eaten the first few days, and is best flavored from one week to two weeks old.

AN ORANGE COURTY LADY.

Analysis of Soils .- The following is a method of analysing soils for ordinary Agricultural purposes: - Weigh a convenient quantity of the earth to be analysed, say 1000 grains dried in the open air; dry the same before a fire on paper, so ne not to scorch the paper; re-weigh, and the difference will be the organic matter. Pour a convenient quantity of muriatic acid on the remainder; when stirred and settled pour it off, and add ovalate of ammonia: the precipitate will be the lime. Mix remainder with water, and stir it well; when a little settled, pour off the turbid mixture, and the suspended contents are agillaceous, and the deposit siliceous .- An Old Subseriber.

Turnip Seed .- As the following method of treating Turnip seed has proved very successful in preventing the ravages of the fly. I have taken the liberty of sending it to you. A day or two before sowing, put the seed into a sieve and tub of clean water, and rub it quite clean through the sieve, changing the water once or twice; dry it in the sun under a wall or glass, or before a fire. A little flour of brimstone may be mixed with the an effectual preventive .- A. B.

On Storing Turnips.—The most approved and now generally adopted method of storing turnips in Roxburghshire, is as follows:-The turnips, deprived of their leaves and roots, are laid in obling heaps, sloping up on both sides to a point, like a potato-pit, and the outside ones pack-ed cl setogether, and a smooth uniform surface formed. The heap is then covered with dry straw to the depth of about 13 inches, which is secured and bound down by straw ropes. Turnips stored in this way generally keep well, and are scarcely ever touched by frost. Should it be late in spring before they are used, they are generally somewhat sprouted, but much less so then if they had been puted in the earth. Of course the length of the heap will depend on the quantity of turnips. The breadth is generally about 10 or 12 tect. Swedes are now generally stored in November or Decem-

Pea-straw.—At a lecture of the Rev. Mr. Sidney, at Acle, Nortolk, the rev gentleman drow attention to the waste of Bean and Pea-strav It was cut too late. He gave the analysis of each as to nitrogen and gluten, which showed that 74lbs of Pea straw, and probably of Bean-straw also, equalled in nutriment 100ibs, of common -a fact most important for farmers here, and well known in Scotland.

Fermentation in Manure-Heap.-When a piece of paper, moistened with spirit of salt, or muriatic acid, held over the steams arising from a danghill, gives dense fumes, it is a certain cet that decomposition is going too far ; for this indicates that ammonia is not only formed, but is escaping .- Smith's Productive Farming.

Parsnips .- The cultivation of the pars nip resembles that of the curret in every essential The land should be prepared as stated last week for the cariot. Especial care should be taken in this, as in that case, to have a deeply-cultivated soil. In the Channel Islands, where this root is largely grown, it is cutomery in the preparation of the land to use the large trance plough, and bury the manure—20 tons per acre of stable manure—12 or 14 inches deep. This is, of course, only practicable on deep soils, and it is on such, whether light or heavy, that this root flourishes. Parsnip seed may be damped, mixed with sand, just as in the case of the carrot, and drilled early Just as in the case of the carrot, and difficult carry in April at the rate of 4lbs. per acre, in tows on the flat, 18 inches apart. New seed only should be used. Colonel le Couteur informs us, in the journal of the English Agricultural Society, that seed sown in 1838 would not vegetate in 1840, though soaked and sown in a greenhouse. The damping of the seed, though we have advantageously adopted this plan in the case of the carrot, for the last three years, is to a certain extent hazardous. Seed thus spround, if sown on a dry soil, is liable to be deprived of life. After having been thus treated, it must not be sown till the land is damp. The summer culture of the paranips is just the same as that of the carrot. An average weight of from 9 to 11 tons per acre is obtained of it in Jersey. We have not had much experience in the field culture of this root, but we are inclined to think that however superior it is to the carrot in quality, i.e. per cwi., the superiority in the weight of the latter crop tender the parsulp inferior to it per acre. It is most excellent food for cows, imparting a rich flavour to the milk, and it possesses extraordinary feeding properties when given to either oxen or pigs. It should be steamed for the latter; and when thus treated it is nourishing food for poultry also .- Agricultural

Prevention of Smut in Wheat.—At a late agricultural meeting in Sussex, England, John Ellman, Esq., related the following account of an experiment in preventing smut in wheat. He took four sacks of smutty wheat, sowed one sack of it with brire only, as strong as he always made it, to bear an egg as large as a shilling; sowed another with lime only; he sowed the third sack with bine, strong enough to bear an egg, and then let it lay in lime all night; and the fourth he sowed without any thing. The result was as follows: Where the brine only was used, every now and then there was a smutty car, still not many; where the lime only was used, there was much about the same quantity of smut; where the lime and brine were used, there could not be found a single smutty ear; and where nothing was used, it was a mass of smut.

Effects of Deepening the Soil.—The Liverpool Times gives the following fact, illustrating the beneficial effects of loosening the soil to a considerable depth : "There were exhibited at the Exchange News Room two enormous specimens of the red beet, or margel wurzel, grown by Mr. Robert Aeilson, in a field on his farm at Halewood. Each of them weighed upwards of 20 lbs. They were not merely currous in themselves, but remark able proofs of the effects which may be produced on vegetation by the deepening of the soil, for the ground which produced these gigantic roots would certainly have produced double the quantity of potatoes, or of turnips, or of ordinary sized beets, usually grown on an equal extent of land. They show that by deepening the soil, an amount of produce maybe got from it much greater than any one has yet thought it possible to raise."

An Economical Polish Beverage .-- Into sixty quarts of water put three ounces of elder flowers, five pounds of common brown sugar, and a quart of vanegar, and one of brandy; it fast them for three days, studing them once every day. This beverage, which is mentioned in the "Acricultural Jenural of Air," is quite as agreeable as beer, and costs ten times less.— Res. Mr. Hort.

#### [From the American armer.] WHAT IS THE PROPER FOOD OF WHEAT?

This is a question much easier asked than answered; for though it has been mooted at intervals from the earliest introduction of the wheat culture, it never has been satisfactorily answeed, and we question very much, whether it ever will be, so as to render the solution of it generally available; but still we may be able to form something like an approximate opinion through the aid of the laws of analysis. sorting to these, we find what are constituent elements of the wheat berry, and hence the infer-ence is that if we can apply substances to the soil containing these elements, of a soluble character, that we will approach as near as is desirable to furnishing the appropriate food for the wheat plant. The next questions to be considered relates to the quantities of the several kinds to be applied to the sere? How far climate may eperate to facilitate or retard their solution? is plain that before the rootlets can take up food of any kind, that it must be reduced to a liquid or gaseous form, and it is equally plain that this condition of the papulum, from which they derive their support, can only be brought about through the egency of heat, air, and moisture, as while all vegetable bodies must undergo decomposition, so must these of a mineral nature be reduced by the dissolving action of water. As connected them, even with the proper quantities, if the proper kinds of manures could be asertained, the seasons and the climate exert most potent influences, either for good or evil, in the growth of the wheat, or, any other kind of vegetable production hence what might prove salutary one year, would be otherwise another. But let us consider now of what wheat is composed. By the analysis of Springle, a thousand pounds, or say, 16 2 3rds bushels of wheat, leave

• • • •		
Of Potash,	2 25	lbs.
Of Sode,	2 40	lbs.
Of Lime,	0.96	lь.
Of Magnesia,	0.90	lb.
Of Mumina with a trace of iron,	0.26	lb.
OfSiti.a,		
Of Sulptauric acid,	0 40	lb.
Of Chlorian,		
`, _		

11.27 lbs. Thus then, if this analysis he accurate, and Springle's reputation is guaranty that it is, the inference is a fair one, that, as the above constituents are to be found in the Berry of the wheat plant, the soil should be provided with each and all of the substances enumerated, either ingreater or lesser proportions, in order that the preparation of the food of the plant might be going on In every soil alumina (clay) and silica (sand) are always present, and form the greater quantity of the latter found by analysis, as a constituent ele-ment, we should infer, that notwithstanding wheat is said most to delight in clay soils, still that sand is indispensible to the fructification of the grain We know that unless there be a sufficiency of Potash in the soil to dissolve the silica, and yield it to the plant, that, as a natural consequence, the stem will lack that ingredient essential to enable it to stand creet, and from the evidence affirded by the analysis, we should conclude, that ashes. potash, and lime are indispensible to the successful culture of wheat, and that salt would be found to be a valuable auxiliary; nor should we apprehend so much dread as is indulged in by some, if the lime used were of the magnesian kind.

It may be said, that because we find these various substances in wheat, that that is not conclusive proof it derives it exclusively from the soil. We admit this supposition most freely, inasmuch as we are satisfied, that a very sensible portion of the food of plants is derived from the atmosphere, and that this portion is as well appropriated by the leaves as by the roots; by the latter process the most, when by the organic remains, or mineral manures used, the powers of absorption, retention and assimilation, the soil have been accelerated to activity. From the presence of sulphuric acid. we should take it for granted that plaster is almost as essential to wheat as it is to clover. We are the then goes on to state, in general ferms, that disposed to make them, and favour us and the aware, that this opinion will not be considered as those manures which contain ammonia and akaline qublic with the details.—Maine Oullivator.

orthodox by a very large description of farmere, who will tell you, that plaster increases the straw but decreases the grain. Now we are not sure that this opinion of theirs is well founded, if after the use of plaster such result may have been produced. may it not have sprung from other causes than the use of plaster? May not the weather, an excess of rain, or nutritive manures have produced the result, and not the plaster? If the theory of the action of plaster, which strikes us as most rational be the true one, its most essential office is to husband and dole out gaseous food, according to the wants of the plants, rather than to stimulate them by improvident and too luxurious feeding. If this were not the case, we should think that the minute quantity required for an acre, would not answer the valuable and wonder exciting purposes that it does. If its office, of tself, were merely stimulative, its effects would be less manifest and less lasting, nor would those effects be visible beyond a single season; hence we infer, that, besides its direct agency, it exerts an indirect one, as a caterer, if we may so express ourselves, still more important. Again, those who deprecate the use of plaster directly to the wheat crop, do not hesitate to use it on clover, and turning that in with the after-math, to grow wheat on it. Why then, if plaster exerts so unfavorable an influence when applied as above first stated, is it then sown on the clover that the wheat escapes the assigned injury? This is a question as dificult of solution, as is the one with which we began this article; for as the plaster requires many hundred times its own body of rain to dissolve it, it must necessarally continue its action through several seasons and successive crops.

We have thrown out these remarks merely as suggestions, in the hope that the question of—"What is the proper food of wheat?" may draw out some able correspondent, whose knowledge, observation, and experience may enable him throw light upon the subjet.

## SPECIFIC MANURE FOR SPECIFIC PURPOSES.

Many farmers suppose that all manures are similar in their nature, and have the same effect upon plants, whatever may be the structure, design, or use of those plants. Most farmers are unwilling to believe that any thing is manure, ex-cent what may be of animal origin. We have long cept what may be of animal origin. We have long labored to convince them of the fallacy of this idea. As long ago as 1832, in an addres delivered before the Kennebec County Agricultural Society, we ventured to hold the following language, ciety, we ventured to note the following tanguage, which an honest old farmer told us, afterwards, did very well "for a flight" 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 pumpkins, squashes, or roots, grass, or any thing which is naturally pulpy and succulent, animal manure is the ingredient necessary. But wheat is by nature very different in its structure and composition from those. You want a comparatively hard, flinty straw, and you want a full and hard, flinty, dry kernel. Lime, alkalies, and such substances, are the proper meterials to produce such crops."

We were pleased to find that Mr. J. E. Tes chemacher-a practical and scientifice Horticulturist of Boston, in experimenting upon manures, and especially upon Guano, the manure which is now brought from the coast of Chili, and is exciting much attention-has come to the conclution that particular manures are adapted to promotion of different parts of the plant. That if you wish to grow foliage and stem, certain manures will effect it. If you desire seed only, other kinds must be used in greater quantities then the other. In a very instructing communication which he has published in the last (April) number of Hovey's published in the last (April) number of florey's Magazine of Hocticulture, speaking of the action of Guano on the growth of various plants and fruits, he says:—It seems to me highly probable that cortain manures are particularly conducive to a luxuriant growth of atem and foliage, while others are peculiarly so to the production of numerous and filled seeds."

matter, or the nilorgenous manures, are chiefly instrumental in producing stem, leaves, &c., while the phosphates of lime, of Magnesis, and the sul-pharous compounds, all of which exist in those eeds usuful as a manute to promote the production of them, and while the former are first necessary to fit the plant with proper and strong organs for devoloping the seed and for supplying these phosphates, &c, it must be son; where in the soil or supplied by man, or the seed will not fill, and be so full of the essential amount of the true material. We see this result oftentimes in many crops. We recollect that no longer ago than last year, we listened to the remark which one farmer made respecting the crop of another. Farmer A. had planted a certain piece of land, for ten years in succession, to Indian corn. It was a warm piece of land, and he put on a good 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 corn will have pluguy long snouts when he comes to husk them." We had the curiosity to examine the corn in the fall, and sure enough, there were but very few cars filled out over the end-they had "plaguy long ears." Indian corn we all snow, begins to fill at the bottom of the ear, and if there be the proper kind of matter in the soil and plant, to fill the whole ear out it will continue to fill, kernel after kernel, until it is filled over the end with sound corn, 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 are filled. This man had, by his good supply of animal manure, always made a good show, and obtained stalks and louks in abundance; but he had tobbed the soil of other food, such as phosphates, &c., and did not know that it was necessary to supply them. It is thought that Guano possesses the ingr dients necessary for both stem and foliago, and for the seed too, if it be properly applied.

We hope that Mr. T. and others will be enabled to go on with their experiments, and devolope facts which are needed, and which will be so valuable to farmers in a practical point of view.

It is probable that the science of manureology will be come so perfect, that any part of a plant can be so stimulated as to be grown to excess, by the proper application of the right manure. For instance, if you want all leaves, or big flowers, you can have them. If you want all seed, and but litthe folioge, you can have it, by only knowing a little more of the nature of the plant cultivated, and the material to be applied .- Maine Farm.

#### FOOD FOR COWS.

We would commend the following article to the careful perusal of our readers, as it embraces a topic of great practical importance. With those familiar with the writings of M. Chabert, and his exulted character as a scholar, any commendation on our part, would of course appear superfluous.

M. Chabert, the director of the veterinary school of Alford, England, had a number of cows which yielded twelve gallons of milk every day. In his publication on the subject, he observes that cows ed in the winter on dry substances give less milk then those which are kept on a green diet, and also that their milk loses much of its quality. He published the following receipt, bythe use of which his cows offered him an equal quantity and quality

his cows offered him an equal quantity and quality of milk during the winter as during the summer.

Take a bushel of potatoes, break them whilst raw, place them in a barrel standing up, putting in successively a layer of bran, and a small quantity of yeast in the middle of the mass which is to be left thus to ferment during a whole week, and when the weather took he prevented the whole and when the vinous taste has pervaded the whole mixture, it is then given to the cows, who eat it greedily.

We have been promited a communication on this subject by a person to whom we casually mentioned the views of M. Chabert, and who has had some experience of late, as regards the process he commends. Experiments of this description are much needed, at this day, and we are glad that there is one among us, if no more, who is

#### MANURE-COMPOST.

Manure is virtually the farmer's capital; the bank, if we may be induged the expression, upon which he can alone draw for those important and essential accommodations without which his industry and economy in other matters, will be of little or no avail. There is not a farmer in New England whose resources in this particulat, are not amply abundant, and whose farm, might not in a short time, be brought to almost any de gree of productiveness the owner could reasonably desire. Nature has provided, by a wise economy. that nothing which has once been inspirited with the energizing indentifying principles of life, shall be worthless in the great work of perpetuating and nourishing its kind. But it is not simply to the animal and vegetable kingdoms, that the farmer is to look for the means of enriching his soil The various mineral substances embedded in, and constituting, to a certain extent, the aurface of the soil upon which we tread, are endued with certain distinctive and emendatory properties which render them efficient assistants in the labor of improving and enricking our fields. Even the and compact substances of flint, is capable of seilding upon decomposition, a principle essential to the growth and nutriment of plants; while the various mineral substances of our common field and gardens, are capable when commingled in proper relative actions, either of weight or measure, of evolving principles rot only highly beneficial to the health of plants, but indispensably necassary to their successful development and growth. In the formation of compost manure, one thing, however, is indispensible, and this is that we attend strictly to the nature and constitut tional character of the soil to which it is to be as applied. If it be of a clayey, or argulact us texture, the basis of the compost into add for its ame ture, the basis of the compost into ided for its unice that the cow, and he at once suspected libration, should consist principally of sard. Bet if, J. went to see the cow, and he at once suspected on the contrary, it be of a sandy or checked chair what was the cause of the trouble. He suspected should be mostly of clay. Soils she had drank too nuch cold water. He addressed the care of her, and ants applied, and in such quantities, as will being them to a proper corsis ency, while those that accept. Oh, yer horer, said the are arid and hable to injury from now rap a districted three buckets at one time descent or evaporation of water, must be most field. He choose to let the call draw n by the application of such remedial agents, as cow for three or four months-he thought they will tend to confer uncluosity, and prevent the would become cons one year sounce than if kept possibility of inju y from such a cause.

The most tenacious clays, and the most barren sands, may, by the application of such materials as tend to modify their obvicus defects, be made, wonderfully productive .- Blaine Cutivator.

## VENTILATION OF COWHOUSES.

Every one knows that pure air is necessary for respiration, and that air on being used by the lungs is expelled in a deteriorated meat was to be mixed with the cut food it would condition, and rendered unfit for being again not pay cost to cut the hig. He once kept 30 inhaled. If, therefore, cowheuses are not properly cows and gave them one bushel of bran per day, ventilated, the air becomes foul from the respired mixed with cut feed, one third English hay, one air, as well as, perhaps, from impure exhalations. and the air so deteriorated is rendered unfit to maintain health. In the neighbourhood of large much Indian mest. He knew the history of a towns, too, there is another predisposing cause to cow that had been fed with half a peck of meal towns, too, there is another predisposing cause to disease, viz., the unnatural forcing of a cow's disease, viz., the unnatural forcing of a cow a milk by a too liberal supply of brewer's draff. Fresh supplies of air, that the blood may be purified, are essential objects of a respiratory apparatus, and if the blood that goes to the lungs is returned to the system in the same state as it is sent, death will be the consequence, for venus Col. J. b night this cow afterwards of President blood is poison to the bedy. It does not often Quincy, that elder, and endeavoured to recruit and happen that imperfect ventilation produce name- restore her to her former state; he turned her out diate death, but it is 100 often the real cause of inflammation, fever, and deadly distempers.— Correspondent of Mark Lane Express.

Cure for Cancers .- A gentleman who has for years been ufflicted with neancer on his face, informs us, that after having followed the precriptions of some of the most skillful physicians, at the expense of more than seven bundred do "res, having twice had been but he had been been bundred." 'ers, having twice had it cut, he has been effectually cured by simply bathing it three or forgetimes a day with brandy and sale. Those afflicted with these virulent ulcors will do well to try it. Mains Cultigator.

(From the Massachusetts Plonghman.)

#### AGRICULTUAL MEETING AT BOSTON.

Colonel J. qu. s, of Charlestown, was entitled to the floor. We had not room last week to finish our our report of the Colonol's remarks, and we here meert them. He spoke of the danger of suffering bulls to run at large and of the ease with which they could be prevented doing mischief;-he said many lives had been lost by these animids; that they could be tamed by putting a ring in the nose; and he had done this in three minutes to one that was six months old; then they may be handled with ease. If they are turned out to pasture, he said they ought to be blinded. This he had done by tying a board, two feet long and three inches wide, in front of the horns, and then fastening a leather apron to the board, cutting the apron three cornered, and bringing it to a point at the nose.

Colonel Jaques said this would be no injury to

he animal and he would never attempt to fight or to gore any one while this hood was on.

In speaking of diseases to which cattle are subject, he said he once had a cow that gave him twelve quarts of milk per day, as late as November; but she suddenly fell away to two quarts. He felt of her horns and found them warm; he alit her tail, cut all a piece, and rubbed spirits of turpentine betweenher horns. He then gave her half a pound of brimstone mixed with half an ounce of saltpetie, put a piece of garget root in her dewlap near the bosom, as a rowel, and gave her a warm mush, and he very soon restored her

He said celd water should reverbe given soon after caiving. Col. Wainwright once applied to tum to see what was the matter with his cow; she chaired him with neglecting to give her drink . Ob. yer hover, said the man, but she

He choose to let the calt draw mik from the poorly on porrulge or slops.

He stoke of the famous Oaks cows that was bred in Danvers by the Rev. Mr. Oaks. Her calf was killed off in May and she made after that 481 pounds of butter during the season. He thought no animal could be found that would aid a poor man so much; and he did not doubt that a whole race might be found, in time, equal to this cow; but we keep cows that all the feeding in the world would not tring up to this product.

As to feeding cattle, Col. J. thought if meal was to be given the hay should be cut up, but it no third coarse hay, und one third straw. He had seen cons that were runed for milk by cating two per day, and in a short time the quantity of milk which had been very great was hearly dried up. The famous Oaks cows was another instance. After having made the large quantity of butter named aboy , she fell off in consequence of enting too much meal, and gave but very little muk. to past ure one whole summer and let her have no mea. ; but he rever could bring her back againshe was spoiled for mik.

Fig had a high opinion of wheat bran as a remedy for dyspepsia in cows. As to difficulty in calving a consequence of the preponderance of weight in the male, there never would be trouble if good shaped unimals, with small bones here selected. Cows, too, with large heads and horns, would be small in body, and in the pelvis. He recom-mended haiter breaking of caives at one or two days old—when this is well done you may ap-proach them at any time in the field. He strenwill remember good treatment; and they never forget when they have been ill used-their memory is very strong.

Col. J. spoke highly of the Normandy breed of horses, a cross which gives us the Morgan horses. He thought this the best breed for all work-he will go to meeting, to mill, and to merket; and he has se spirit enough for any higher service. He said we should be very particular in the use of language-never saying whoa when you do not mean to have the horse stop. uniform, use the same word always for the same purpose. He can so train a horse that he may be stopped by a word when his bits or reins are

Mr. Monson said he had been in the practice of fattening cattle for a long time. Many farmers have an idea that if cattle are often removed to new pastures they will fatten better than when kept steadily in one lot. He had tried the plan to his satisfaction and he was well satisfied that it is not a good plan to shift caule from pasture to pasture. He had practiced shifting them once in two or three weeks through the summer; but he found that they gained more fat and tailow when kept through the whole summer in one pasture than when they were shifted. Even in autumn he said they would lay on more fat in a good summer pasture than in what is called fall feed or rowen.

The Editor of the ploughman stated that this was agreeable to his own experience, and that he would prefer letting his cows run in one pasture to shifting them into three or tour-that even if he could have his loss so divided that the cows could be turned into a new one-daily he would not do it. When they have the whole run they have a sufficient bite of the new daily growth which is sweeter than any other. That cous which are admitted in September into the mowing fields will not dwell there long when they have liberty to go back into the summer pasture also, provided there was a proper supply in that summer pasture.

## LIME FOR PLUM TREES.

Mcssrs. Editors :- The late discussion at an agricultural meeting in our State House, concerning the efficacy of salt in preventing the actacks of the Curculio upon Plum trees, has reminded in of a few experiments, which I have recently made on this subject. Those experiments have not been sufficiently numerous to justify a general conclusion; but I should like to know if others have obtained similar r sults.

Previous to 1841, several of my plum trees had been so attacke by these insects, that I scarcely obtained a ripe plum. Early in the spring of that year, as soon as the blossom buds began to swell, I removed the soil around the tree to the depth of two or three inches, as far on all sides as tie limbs extended. I then deposited in the opening a layer of hime, recently slacked and still warm, about haif an inch in thickness. The seil was immediately restored to its place over the lime, and closely pressed down upon it. I had an abundant crop of well ripened plums. In the spring of 1243, I again appled lime in a similar manner, and, with the the same success.

In the Autumn of that year, it was stated in some Agricultural Journal, that sait aprinkled around the tree in sufficient quantities to render the ground whitish, would prevent the ravages of the Curculio. In 1843, I made the experiment. The trees blossomed well, and showed an abundance of fruit; but every plum was attacked by

this insect and felt to the ground.

I intend to apply the lime again the present spring; and if I obtain a good crep of ripe plans, my confidence in this remedy will be mong.

P. C. Yours respectfully.

Brunswick, Me., March 23, 1844.

The above experiments of Professor Cleveland. of Bowdom College, may prove to be valuable to horticulturists, in enabling them to guard against the most formidable enemy of a valuable and delicious fruit. We hope that others will try the experiment, and we shall be pleased to learn the result.

It is a pleasing consideration to cultivators that welly recommended Lind treatment; he said all those gertlemen who are distinguished not only would not be made tame like a spaniel; but all in our own but in foreign countries, for their deep

researches and attainments in those sciences that are intimately connected with agriculture, and its kindred branches, are directing their intention to acience to the most useful practical purposes. Every operation in nature, by which the farmer produces his crops, and rears and fattens his animals, is strictly in accordance with the natural sciences, and the more these are understood by cultivators, the lighter will be their labors, and the greater their success .- America Furmer.

#### AYRSHIRE COWS.

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

Mr. President and Gentlemen,-Your committee have very imperfectly attended to the duty assigned them by you, last evening, and offer as an excuse, that a portion of them have been occupied by a very arduous task among the cattle on the show ground, as judges on stock. They are pre pared, however, from the limited knowledge they have of the Ayrshire breed of cattle, and from the best information they have been able to procure. to offer the following as their report :-

"The Ayrshire cows are of medium size, their average living weight about eighteen hundred and ninety pounds. Their peculiarities are as follows:

"They are low in the leg, and fine in the bone, with a round and capacious barrel, rather heavy in the hind quarter-straight on the back-the neck and head very light-the neck well set on-no dewlap-horns small, short and clear-the tail very small-a true taper in the barrel from the back rib to the shoulder fore quarters light—the udder an oblong square, rounded off on the lower part, and running far forward-their teeth small and well spread; they are a very hardy race of animals, with good constitutions, and when dry, disposed to take on flesh quickly. Your committee are of the opinion that the Ayrshire breed of cattle stood unrivalled as a dairy breed, and will give a better return in milk and butter, for the food consumed, than any breed of cattle now known.

"It is a fact well established that the beef of the Ayrshire breed will sell in the Glasgow and Edinburg market for one penny per pound more than

that of any other breed.
"Your Committee have, from their own know ledge and from information from such sources as can be relied on, ascertained that the average quantity of milk from common. Ayribire cows is from twenty-two to twenty-six-quarts perday. There are thousands of cows in the western counties of are thousands of cowe in the western countries of Scotland that will give thirty quarts per day, and very many that will 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 three times in each day, and they require great care for two or three days before calving, lest the udder be too much crowded by the new flaw of mik. Your committee have knewn fiftyflow of mik. Your committee have known fifty-six quarts of milk drawn from one Ayrahire cow, in about forty-eight hours, immediately before

caking.

"All of which is most respectfully sub mitted."

#### FOOT-ROT IN SHEEP.

Caution .- While your readers attention has been turned to the disease of foot-rot in sheep, when either house-fed or kept in a damp situation for any length of time, I would beg to offer a caution to shepherds, and others looking after the animals, when so affected. If any of the matter of foot-rot come in contract with a sore or abraded surface on the hand or other part of the body of a person tending the animal, it is apt to produce a voilent inflammation and rapid mortification of the part,—a disease termed by medical mengangrenous inflammation. A shepherd in this neighbourhood nearly lost his life from this cause lately, and the disease was only arrested by hurn ing out the whole affected part. The mode of treating sheep when labouring under foot-rot here, is to clean the parts diseased, and apply the sand the head heavy, or if the neck he quite strongest nitrous acid carefully with a straw, or short, and the head short and light, either of cession. If other farmers find this effectuages rod. This very soon conquers the disease. these extremes very much affects the regular will oblige by sending additional testimony.

Those animals affected with the complaint should be immediately separated from the rest of the flock, as treading in the same footsteps wit spread the disease from the tainted to the free. J. L., Newburgh.

Age of the Sheep.—The age of sheep may be known by examining the front teeth. They are eight in number, and appear, during the first year, all of a size. In the second year, the two middle ones fall out, and their place is supplied by two new teeth, which are easily distinguished by being of a much larger size. In the third year, two more small teeth, one from each side, drop out, and are replaced by two large ones; so that there are now four large teeth in the middle, and two pointed ones on each side. In the fourth year, the large teeth are six in number, and only two small ones remain, one at each end of the tange. In the fifth year, the remaining small teeth are lost. In the sixth year, the whole begin to be worn; and in the seventh, and sometimes sooner. some fall out and are brokes.

#### CURE OF SWENEY.

As soon as you discover the diseasewhich will be known by noticing the horse while standing after use, and it may be seen even in the stail, he will sustain the weight of the body on the opposite limb, and put forward the limb of the affected side, permitting it to touch the ground but lightly, limps when hurried down hith, the muscle upon the shoulder becomes than, and 13 many instances the skin contracted and tight, -put a twist upon his upper lip, and introduce the small blade of a common pocket knife, (the point of which must be sharp.) into the thinnest part of the shoulder, which will be near the upper margin of the shoulder blade, and push it directly in until you reach the bane, holding the km e as you would a pen when writing, and scratch up the membrane that covers the bone for a space the size of a silver dollar; the knife may then be withdrawn, and after the small quantity of blood that follows is wiped away, the oritize will not be seen. The knife may then be introduced in one or two places below the first, and used in the same way, and the operation is over. This may be repeated in six or eight days: we have soldom found it necessary to repeat the operation more than twice or thrice. and in many cases a single operation will effect a cure.-Southern Cultirator.

### POINTS OF A GOOD HORSE.

By Col. Jaques, of Mass.

Col. S. Jaques' Remarks on the Prominent Points to be obserted in the selection of a Usiful Horse, to be observed in the selection of a Useful Horse, more particularly for a Roadster.—I prefer a lightish head, nearly set to the neck, the neck rising promptly and strong from the shoulders and withers, and somewhat crowing or curring at the top, tapering to the head with a strong crest. Shoulders well laid in, spreading woll back, something like a shoulder of mutton. Chest deep and a lattle projecting. Withers rising moderally high and inclining well into the back. If the withers are low and flat on the control horse will be inclined to plage to the top, the horse will be inclined to plunge to the ground, and when fatigued will stumble or fall. Neither must the withers rice too high, as he will then appear as though on stilts, both extremes are serious impediments to fine and safe action. R.bs should be well rounded out Back straight and short, well coppled, that is, the hips well thrown forward, forming a strong loin, and giving a long lever from the point of the hip to the hock joint of the hind leg. The the hip to the bock joint of the find leg. The horse should be a good length from the point of shoulder to the extreme point of buttock. Dock strong, and well covered with hair. Close and snug immediately under the dock. The muscles on the inner part of the tlighs should be full and well shut together. If there is a large cavity under the dock, the horse will be inclined to scour, and is probably only a door-yard horse.
The neck, head and body form a lever, resting

on the fore legs as a fulcrum, the head being at the end of the lever. If the neck be very long

clips and action. The whole machine should be

of good proportion.
The forearm is a very important lever, as regards the safty of a roadster. The legs should be clean and free from blemish, and when in motion move true, and free from cutting or wabbling. The feet should be round and steep ; heels broad; coronet and posterns of medium length. Shank or cannon, broad and flat, showing the tendons or sincews. The kneedinge and well dropped down; the arm above the kneelong, and the muscles large and full. The top of the shoulder when matched, to the withers should not be so heavy-loaded with muscle as to impede their action. No objections to the fore feet moving pretty close, but not so as to cut

Much depends on the form of the hind leg and the power of that lever, as regards strengt and speed. The shank, hock and thigh should be broad and flat, something lke that of an ox; and it so when in motion will operate like a plank sprung edgewise and then let fly. If the hind legs when at good speed open and spread a little, on objection, providing there is a good free action in the bock joint.—N. E. Farmer.

## (From the Maine Cultivator.) COB MEAL.

Messers. Editors:-I noticed some think-in which it was urged upon farmers to grind their cobs, as the meal was valuable for many purposes on the farm-particularly for poultry, hogs, and stock.

On the strength of this suggestion, I "acted," On the strength of this suggestion, I "acted, and can now assure you, so well satisfied am I with the result, that my cobs will never, as here-thore, be "usclessly thrown away." As I grind my cobs with the corn, I cannot speak definitely as to the value of corn meal when used in its pure and unmixed state, but I am satisfied the: there is a very important saving attended by economizing cubs in the manner you direct. I have, during the last three months fed corn and cobs to my harse, cartle, hogs, and calves, and as I have a large stock this winter, and have, thus far fed hem wholly on the products of my farm the saving to me, from this simple suggestion has I a-sure you, been of no small value as regards the ourse. Yours. ECONOMIST.

## GRAFTING GRAPE VINES.

The late Mr. N. Herbement, of South Care lina, a successful cultivator of grape vines; after referring to the usual modes of grafting fruit

"But let vines be grafted in this manner, unless "But let vines be gratted in this manner, unless 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 grafting, which I practice usually, and which is a tended with no difficulty, and very seldom fails, is as follows: -All I do, is to take away the earth roun I the vine, to the depth of four or five inches; saw it off about two or three inches below he. surface of the ground; split it with a knife or chisel; and having tapered the lower end of the scion in shape of a wedge, insert it in the cleft stock so as to make the bark of both coincide, (which is perhaps not necessary with the vine;) tie it with any kind of string, 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."

Grafting Cement .- One part of taltallow, two parts of bees-wax, and three parts of resin. Melt the whole then turn it into cold water and work as shoomaker's wax. These proportions form a compound that will not run in a hot summers's sun nor crack in a winter's severast cold.

Warts on Cows' Teats.-Mr. Jonath'n Perry, of Dover, tells us that lamp oil will kill warts on cows—apply it several days in anc-cession. If other farmers find this effectual, they

### TORONTO HORTICULTURAL SOCIETY.

It seldom falls to our lot to record so splended a display as the one under notice. The specimens of flowers, vegetables, and fruits exhibited were of the choicest Fleming, cultivator. kinds, and the whole performance was highly creditable to the parties through whose instrumentality it was mainly got up, and to the gardeners, gentlemen, and others who have aided in establishing this Association.

The Toronto Horticultural Society already numbers on its subscriptionlist upwards of three hundred names, and the subscriptions range from five shillings to a pound each, and we are happy to add, that there are very many gentlemen who, in their liberality towards this cause, have gratuitously subscribed the latter sum. An effort will be made, during the present summer, to double the number of subscribers, which the manageing committee confidently expect can be ger, cultivator. 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 season about the 10th of October.

We are authorised to state, that the July exhibition will take place at the Government House, and that the one Lambert, cultivator. for October will be held on the grounds Unebrace Cucumb of the St. Leger Race Course, which Esq., amateur. of the St. Leger Race Course, which Best fifty heads of Asparagus, No. 41, Mr. will be held on the day, and in connection with The Grand District Agricul-Second best fifty heads of Asparagus, No. 7. tural Show, which will take place on John Granger, cultivator. the above grounds, on the 9th and 10th 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 amateur gardeners will do their part in making the necessary preparations for the coming Exhibition; and, from the liberal manner in which the Society has already been supported, and the past exhibition been approved of and applauded, we have every confidence in stating that the enlightened, patriotic, and public-spirited citizens of Toronto, of all classes, shades, and parties, will be ready and willing, when called upon, to do theirs.

The first exhibition of this Society took place in the City Holl, on the 22nd of May. About one o'clock the public were admitted by The Brass Band of the 82nd Regiment were in attendance, and added much to the guicty of the scene by their musical performances. The Hall was crowded to excess by ladies and gentlemen who seemed highly delighted with the exhibition. The display of plants, fruits, and vegetables. (some of which were sent by an ateurs) was very creditable to all concerned
The following is a list of the prizes awarded

by the Judges:—

Best Exotic, No. 39, Cactus Jenkinsonia, Mr. Fleming, cultivator.

Second best Exotic, No. 44, Orange, John Logan, cultivator.

Best Exotic, No. 50, Indian Rubber plant, W. B. Jarvis, Esq., amateur.

Second best Exonte, No. 60, Lemon, W. B. Jarvis, amateur.

Best collection of Geraniums, No. 41, Mr.

Second best Geraniums, No. 40, Mr. Fleming, cultivator

Best twenty four Geramums, No. 47, W. H. Boulton Esq., amateur.

Best collection of China Roses, W. H. Boul. ton, Esq., amateur.

Best six Tea Roses, No. 45, John Logan, cultivator.

Best twelve Greenhouse plants, No. 61, W. H. Boulton, Esq., amateur. Twelve Greenhouse plants, No. 41, Mr. Logan,

ultivator. Best collection of Pansies, No. 35, Wm

Burns, cultivator Second best collection of Pansies, No. 36,

Wm Burns, cultivator. Best collection of Pansies, No. 17, W. H. Boulton, Esq, amateur.

Strawberries, only prize, Mr. W. Williamson. Best twelve Table Apples, No. 5, John Gran-

Second best twelve Table Apples, No. 34,

John Granger, cultivator.
Best twelve Tuble Apples, No. 63, Mr. Wm.

Burns, amateur. Second best twelve Table Apples, No. 61, W. B. Jarvis, Eeq., amateur.

Best twelve Cooking Apples, No. 6, John

Granger, cultivator, Best twelve Cooking Apples, No. 62, W. B.

Jarvis, Esq., amateur.

cultivator.

One brace 2d best Cucumbers, No. 50, John

Onebrace Cucumbers, No. 65, W. B. Jarvis,

Best fifty heads of Asparagus, No. 19, G. W. Allan, Esq., amateur.

Best dish of Sea Kale, No. 53, Wm. Burns, cultivator.

Second best dish of Sea Kale, No. 29, Wm. Burns, clulivator.

Best dish of Sea Kale, No. 56, T. G. Ridout, Esq., amateur. Best twelve stalks of Rhubarb, No. 30, Wm.

Burns, cultivator.

Second best twelve stalks of Rhubarb, No. 10 John Granger, cultivator. Best twelve stalks of Rhubarb, No. 20, G. W.

Allan. Esq., amateur. Second best twelve stalks of Rhubarb, No. 66,

W. B. Jarvis, Esq., amateur.

Best twenty-five Radishes, No. 46, John

Logan, cultiva or. Second best twenty-five Radishes, No. 11, John

Margeson, cultivator. Second best twelve heads of Lettuce, No. 13, Wm. Margeson, cultivator.

Best twelve heads of Lettuce, W. B. Jarvis, Esq., amateur.

Best peck of Spinage, No. 43, Mr. Fleming,

cultivator.
Second best peck of Spinage, No. 26, G. Stattle, cultivator.

Best peck of Spinage, No. 18, G. W. Allan, Esq., amateur.
Three best heads of Cabbge, No. 2, John

White, culuvator. Three second best heads of Cabbage, No. 3,

John White, cultivator. Kidney Beans, No. 68, W. B. Jarvis, Esq., amateur.

Best peck of potatoes, No. 1, John White, cultivator.
Second best peck of Potatoes, No. 56, John

White, cultivator.
Best Potatoes, No. 69, W. B. Jarvis, Esq, amateur.

Best dish of Mushrooms, No. 54, Mr. Tapscott, cultivator

Second best dish of Mushroomis, No. 32, W. Daniele, cultivator.

#### TIME FOR SPREADING MANURES ON GRASS LANDS.

A corespondent asked our opinion as to the most proper time for spreading manures over grass grounds?

We are decidedly in favor of spreading in November in preference to any time whatever in the spring season. We commonly loss in the spring season. We commonly loss a large part of our manures when we spread them at any time on land that has long lain in grass. But as there are many natural meadows that cannot be easily ploughed, we dress them by an application on the surface.

Many farmers near Boston spread manure on their grass fields as late as May; and if the month holds rather dry they find but little benefit from it. Within our own observation there are instances of such spreading which has positively proved detrimental to the harvest. In a wet season it will operate better ; but almost any kind of application 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 hable to dry up or evaporate. loam or other matter should always be mixed with manure that is to be spread on the surface of mowing lands .- Mass. Ploughman.

### KANAWHA SALT REGION.

Extraordinary Discovery in the Manufacture of Salt .- Several months since we stated tris, Isq., amateur.
One brace Cucumbers, No.51, John Lombert, that a remarkable phenomenon had occurred on this kanawa, by which the natural gas coming up with the salt water had been used as fuel to boil the water. In the following article, which we extract from the Kanawa (Virginia) Republican, it will be seen that this process has been carried still further, and that this phenomenon is now one of the most extraordinary natural developments of modern time-Cincinnate Chronicle :-

Kanawha Salt Region .- We have said before that the subterranean wounders of Upper Kanawha Valley were not helf explored, and every day proves that there are not only mysteries but treasures of wealth of which the pre-ceding generation had no conception. When a year or so ago, Mr. Tomkins turned out the gas that forced up water under the kettle 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 discovery; but now Messis. Wrath and England, at their new turance, have actually attained the Irishman's desideratum in the proposed purchase of two stoves—they save all the fuel. The gas has sufficient power to force a column of water three inches in diameter from the depth of a thousand feet to the height of about fifty feet above the surface of the earth. It is then turned under Granger, cultivator.

Best twelve heads of Lettuce, No. 12, William brought to the state for chrystalization, and then the furnace ignited, and boils the water till it is conveyed to the cisterns, and produces the heat that carries on the process of evaporation. Thus 350 bushels of sait of the first quality are made per day, without one particle of other fuel than the gas. At these works but one cistern is yet erected, and they are able to use only one half of the water that is forced up; another is in progress of erection; when completed, all the water will be used, and 70 or 80 barrels of salt manufactured daily, without coal, wood, or the rays of the sun.

> To Kill Flies in a Cheese Room or Elscubere.-Cheese rooms are frequently kept closed and darkened to keep out the flies, as the dairymaid says. Mr. Livesay asserts that this practice, ruinous to cheese, may be avoided by occasionally boiling a pennyworth of quassa chips in a point of water, sweetening it, and placing it on plates about the room. It will destroy all the flies that taste it. Cheese, he says, being animal matter, cannot have too much air .-Cullivator.

CATTLE SHOW OF THE HOME DISTRICT AGRICULTURAL SO CIE.Y, UNDER THE PATRONAGE OF HIS EXCELLENCY THE GOVERNOR-GENERAL.

The Home District Agricultural Society will hold a GRAD AUTUMN FAIR AND CATTLE SHOW, at the St. Leger Race Course, adjoining the NorthWestern extremity of Toronto, commencing on the morning of the second

Second best do.—A Silver Medal, to be mencing on the morning of the second Wednesday of October next.

The first day will be appropriated to examination of Live Stock, Dairy Produce, Root Crops, 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 £150, and the awarding Committees or Judges are to be selected from the Agricultural Societies established in the Ningara, Gore, and Newcastle Districts; and, to return the compliment, the Home District Society purposes to furnish Judges, when required, to the Second best Societies above mentioned.

The parties who will be entitled to compete for prizes are the members of the Second best District Society, and also the members Best spring colt or filly...... of the Township Societies established in the Home District. A trifling entrancefee will be collected at the gate, from all Second best do who enter the show-ground, in order to assist in defraying the contingent expenses of the Exhibition.

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

The place of exhibition, arrangements, premiums, and the unparalleled liberality of admitting the members of the Township Branch Associations to a participation in the benefits of the Exhibition, in common with the members of the District Society, we are certain, will ensure a full attendance, not only from the inhabitants of the Home District, but also a liberal attendance from the friends of Agricul- Best portable Thrashing Machine, not ture in other Districts.

It is confidently expected, by gentlemen fully competent of forming a judgment in these matters, that this Exhibition will be by far the most creditable performance 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 Second best do do do 1 5 meeting of the District Society, which

which took place in the Court-Ilouse, in the city of Toronto, on the 15th ultimo :-

For the best Essay on the profession of Agriculture as a Science,—A Gold Medal, to be worth £3 0 0. The Essay to be sent in to a committee to be appointed on the next regular day of the meeting of the District Society, to be held on the second Wednesday in August next.

Second best do .- A Silver Medal, to be worth £2 0 0.

For the best cultivated and well managed

worth £2 0 0.

#### CATTLE.

				£.	\$.	d.
Best Bull 3 y	ears old	l and un	wards.	3	0	0
Second best		do	do	2	0	0
Third best		do	do	1	0	0
Best cow 3 ye	ars old	and up	vards	2	0	0
Second best		do ·	do	1	10	,0
Third best	do	do	do	1	0	0
	YOUNG	G CAT	TLE.			

# Bulls of two years old and under.

Best..... 1 0 0 Second best..... 15 0 Heifers two years old and under.

#### Second best..... YOUNG HORSES. Best Horse under 3 years old ...... 1 10

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Second best

Best Boar ....

Second best do

Second best

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#### FARMING IMPLEMENTS.

Best Sow,....

d٥

Best iron or wooden Scotch Plough manufactured in the Home District. 1 10 econd best do do do 2 0 Second best do do do Best subsoil Plough manusactured in Second best Best Fanning Mill manufactured in the Best Drill Barrow ..... 1 5 0 requiring more than twohorse power and capable of thrashing at least 100 bushels of wheat in a day of 12 Best Straw Cutter..... 2 10 Best Clover Machine ..... ... 2 10 0 Best flax and Hemp Dressing Machine Best Ribbing Plough..... 1 5 DAIRY.

#### DOMESTIC MANUFACTURES. Best pair ef Woolen Blankets manufactured in the District..... Second best do do 010

Best 10 yards of Frieze Cloth ..... Second best , do do Best Woolien Carper (50 yards). do' Second best do

AGRICULTURAL PRODUCE. Best sample of Flax of not less than 

Second best Best sample of Hemp not less than 112 pounds.....do do O ŏ Second best do 2 10

GRAIN AND SEEDS.
Bost 2 bushel of Fall Wheat. . . . . 1
" Spring Wheat. . . . . 1 46 .. Barley ..... 46 .. Onts..... " 44 Pease ..... Caraway Seed...... Hemp Seed..... 15

Flax Seed..... ROOT CROPS.

Best 8 Bushels of Pototoes..... 10 10 .. .. field Carrots.... Best 50 roots Mangel Wurtzel.....
Best 3 bushels field Parsnips.....

FIELD CROPS. Best acre of Fall Wheat ..... 2

" Spring Wheat....... 2 0 " Potatoes....... 2 0

THOROUGH-BRED DURHAM BULL, FOR SALE—The Subscriber offers for Sale a thorough bred DURHAM BULL, five years old, which will be disposed of on reasonable terms. His Dam and Sire were imported from England, in 1838, by Mr. George Simpson, of Newmarket Grange. The herd from which Mr. Screen wade his soletime to the same form the same of the same transfer. Mr. Simpson made his selection were among the very best improved Durham Stock in Yorkshire. Any farmer or breeder who is desirous of pur chasing a very superior animal, of this un-rivalled breed, would do well to call upon the subscriber before buying elsewhere, as the Bull in question has been pronounded, 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.

Costly apparatus and splendid cabinets have no magical plougher to make scholars. In all circumstances, as a man is under God, the master of his own fortune, so is he the maker of his own mind. The Creator has so constitutof unsown mind. The Creator has so constituted the human intellect, that it 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 teachers are but helps the work is his. A man is not educated until he has the ability to summon, in case of emorgency, all his mental power in vigorous exercise to effect his proposed object. It is not the man who has seen most, or who as read most, who can do this; such an one is in danger of being born down, like a beast of burden, by an oveloaded mass of other men's thoughts. Nor is it the man that can bonst merely of maire vigor and capacity. The greatest of all wair-riors that went to the siege of Troy had not preemmence because nature had given him strength, and he carried the largest bow, but because self discipline had taught him how to 0 bend it .- Daniel Webster.

THE BANK OF BRITISH NORTH AMERICA continue to grant Drafts, in Sums of any Amount that may be required, on the under-mentioned Towns in Ireland and

Scotland, viz. :--On the Provincial Bank On the National Bank of Scotland, at Aberdeen, of Ireland, at Cork, Limerick,

Airdrie, Anstruther, Clonmel. Londonderry, Banff, Sligo, Wexford, Bathgate, Castle Douglas, Dalkeith, Dingwall, Belfast, Waterford, Dumfries, Galway Dundee, Armagh, Falkirk, Athlone, Forres. Fort William, Coleraine, Kilkenny, Ballina, Galashicls, Tralce, Grantown, Youghal Hawick, Enniskillen, Inverness. Monaghan, Inverary, Banbridge, Islay, Jedburgh, Ballymena, Kelso, Kirkaldy, Parsonstown. Downpatrick, Kirkwall,

Cavan,

Lurgan,

Omagh,

Dungannon, Bandon,

Strabane,

Cootehill,

Skibbereen.

Kilrush,

Dungarvan, Mallow.

Ennis, Ballyshannon,

Enniscorthy. They also draw on the Parent Establishment in London, and on their Branches in the British North American Provinces.

Langholm,

Montrose,

Leith,

Nairn,

Oban,

Perth,

Portree,

Stirling, Stornoway,

Stromness,

Edinburgh,

Glasgow.

A. O. MEDLEY, Manager. April, 1844.

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

1,000 BUSHELS WANTED, for which the highest Cash Price will be given, up to the 1st September, 1844.
ROBERT LOVE, Druggist. Yonge Street, Toronto. April, 1844.

HENRY E. NICOLLS,

NOTARY PUBLIC, CONVEYANCER AND LAND AGENT, &c.,

No. 4., Victoria Row, King Street, Toronto. DEEDS, MEMORIALS, AND PETITIONS drawn with neatness and despatch. Titles to land searched and proved.

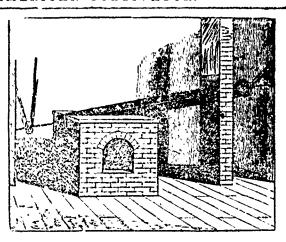
Mr. Nicolls having more good land than the Government, requests all Emigrants and others who intend buying either Wild Lands or improved Farms to give him a call. Lands purchased for persons at the Government Sales, located and money paid on the Deeds procured at a moderate

Lands claimed and prosecuted under the Heir and Devisee Act, and Deeds taken out.

Militia Claims and U. E. Loyalists Rights procured and bought. Bank Stock and Government Debenures bought and sold. Petitions to the Governor and Council for pensions or lands prepared and prosecuted. Money advanced on letters of credit upon Great Britain, mortgage or personal security.

N. B .- On all Government Land business or mortgage, a fee of five shillings will be required before the business is taken in hand.

LAND SCRIP, AND BANK STOCK FOR SALK. IJ All Letters must be Post-paid. Teronto, March. 1844.



# REVOLVING DRYING KILN.

THE Subscriber begs to inform the Millers, Any further information on the subject may be had, by addressing the Subscriber. All communications, and the l'ubilic generally, that he had, by addressing the Subscriber. All communications (post-paid) will be immediately replied 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 Machine will dry from thirty to sixty bushels of grain per hour in a most perfect manner. It is so constructed, that the grain passes through the machine, from thence to the rolling screen, where it is cooled, in a fit state for manufacturing. This machine requires very little power to keep it in motion, and may be driven by a small strap from any wheel in the mill. A quarter of a cord of hardwood will produce heat sufficient for drying a thousand bushels of grain.

The Subscriber begs to inform the public, that he has obtained a Patent for his Machine, which extends through the United Province of Canada, and that he is prepared to manufacture the above

HIRAM BIGELOW.

Tecumseth, Bond Head F. O., February 15th, 1844.

DESCRIPTION.

Composed of a Cylinder about ten feet long, and ten inches in diameter, made of Cast Iron, one-half of an inch in thickness, having an iron shaft passing through its centre, on which it which it is put in motion. The Cylinder is placed in an oblique position, having about 19 inches fall, and is enclosed either in another metal cylinder, or a brick arch, of thirteen inches drameter, leaving a space of one inch and a half between the two cylinders, through which space extends through the United Province of Canada, and that he is prepared to manufacture the above hachines to order, or dispose of the right to persons desirous of manufacturing or using the same. The grain is conducted by a sons desirous of manufacturing or using the same.

#### CARDING MACHINES.

THE SUBSCRIBER begs leave to acquaint his friends and the public in general, that in addition to his Foundry and French Burr Mill Stone Factory, he has engaged Archelaus Tupper, who is an experienced Mechanist, to make all kinds of is an experienced Mechanist, to make all kinds of Carding Machines, of the latest and most approved construction; he has been engaged for twenty years in the United States, and also in Canada, and has a thorough knowledge of all kinds of Machinery, namely:—Double and Single Carding Machines, Pickers, Condenser, Jacks, Billeys and Jinney. Also, Broad and Narrow Looms, Shearing Machines, and Giggs, Napping and Tezzling: Stoves for heating Press Plates; and Teazling; Stoves for heating Press Plates; Press Screws. Also, Grinding Shearing Machine Blades; Fulling Mill Cranks, &c., and all kinds of Grist and Saw Mill Castings made to order; Wrought and Cast Iron Cooking and Plate Stoves; Fancy Stoves of all kinds: Also, Ploughs of dif-ferent patterns, Mill Screws of all kinds; and Damsail Irons; Bolting Cloths, of the best Dutch Anker Brand, warranted of the best quality; Mill Stones of all sizes, always on hand and to order. Also, all the other herein-mentioned articles always on hand and for sale by the Subscriber, at his FOUNDAY, on Yonge Street, as cheap as they can be obtained at any other place.

CHRISTOPHER ELLIOT.

Toronto, August 7, 1843.

## FRESII SEEDS.

THE Subscriber has for sale a very choice assortment of GARDEN, FLOWER, and FIELD SEEDS, which he will sell on moderate terms, at No 14, Yonge Street, immediately opposite Ross, Mitchell & Co.

GEORGE LESLIE N. B .- Country Storekeepers supplied with Seeds, neatly put up in boxes. Cash psid, at all times, for CLOVER, TIMOTHY, and FLAX SEEDS.

IMPORTANT AGRICULTURAL WORKS ON SALE, by P. L. SIMMONDS, Agricultural Agency and Commission Office, 19 Cornbill, London.

1. Johnson on Fertilizers, published at 12s., reduced to 8s. (One of the most important and popular works on Manures extant.)

2. The Implements of Agriculture, illustrated by numerous highly finished Cuts, by Mr. J. A. Ransome. Price 9s.

The Farmers' Almanac, 200 pages, for 1842, 1843, 1844. Price 1s. each. (Full of sound practical information, and useful for Farmers at at all times and in all places.)

Agricultural Chemistry for Young Farmers, by C. W. Johnson, F. R. S. Price Is.

5. A Calendar for Young Farmers, by C. W. Johnson, Esq. Price 1s.

6. The Farmers' Magazine, Monthly. Price 1s. 6d.

SMOKY CHIMNEYS.—No Cure, no Pag. The Subscriber begs leave to offer has services to all persons troubled with this dreadfel calamity, upon the above terms; and, after thirty-five years' practice, feels confident of success.

Prices fixed before the work is begun. All letters (post-paid) addressed to G. BROWN, Builder, &c., Yonge Street, near York Mills.

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