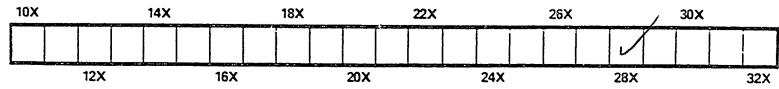
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" agriculture not only gives riches to a nation, but the only riches she can call her own."--Dr. Johnson.

VOL. III.

TORONTO, SEPTEMBER, 1844.

No. 9.



" Agriculture is the great art which every government ought to protect, every proprietor of lands to practice every inquirer into nature improve."-Dr. Johnson

TORONTO, SEPTEMBER, 1544.

MOMTHLY CALENDAR.

By this time, the greatest proportion of the crops will be harvested, and the husbandman will be able to form a pretty correct estimate of his profits for the current year. The most important work for this month is autumn seeding, and we trust that the plans we have from time to time recommended to the attention of the Canadian farmers will be practised, so that the relative merits of each may be generally known.

Each cultivator of the soil should endearour, by every possible means, to in- would enable him to prepare his ground crease his products, and produce only for the crop, in such a complete mansuch articles as really remunerate for the ner that the chance for a good return

to cultivate. ngriculture. The pith of the agricultural of farming.
information that has been published for the good of mankind will be concentrated be thrashed and marketed in the course in the columns of this Journal; and if of the autumn, we would strenuously ledge contained in the columns of the for the stock. Cultivator, we can only say, that the loss to themselves and their families will be much greater than any one could strong clay soils especially, this operation suppose.

farmer, before he commences to sow his autumn wheat, to be in possession of that description of knowledge which

variety of the articles that they attempt winter wheat, for the past few years, Those who have been to reserve a portion of the laud inpractising a system that has resulted in tended for this crop for spring wheat, loss, instead of profit, would act wisely and in the course of the coming year by adopting the plans which have been such improvements may be effected as pointed out by the most wise and best will better ensure more favourable men of our age who have written on results in this highly-important branch

any persons engaged in agricultural utge upon our friends to be careful of pursuits should neglect to avail them-the str w: none should be wasted, as it selves of this casy and cheap mode of will be found very useful,-if for no obtaining the valuable stock of know-jother purpose, it is valuable as bedding

At the close of the month, commence. ploughing your autumn fallows. should not be neglected. As deep It is of the utmost importance to the ploughing has been recommended, and as it can be performed in the autumn much better than in the spring, wa trust each of the readers of the Cultivator will satisfy himself on this point.

HEMP CULTURE.

capital and labour expended in their pro- would be most certain. From what has We take much pleasure in giving induction. This is the great secret in failen under our own observation, much sertion to the following Treatise on the We take much pleasure in giving incarrying out a successful system of hisof the land that is sown with winter Culture of Hemp and Water Rottings,
bandry. If a close calculation were wheat is really unfit for this crop. We dom't he pen of David Myerle, Esq.,
made, it would be found that by far too would, therefore, advice those who who has been employed, for some time many came short of this in a great have been unsuccessful in growing past, by the Government of the United

States, for the purpose of introducing distant when vessels of hundreds of tons the culture of this article into the South-Western States. Any information from such a source may be relied upno, and, we doubt not, will be duly appreciated by such of the readers of this Journal us have made up their minds to engage is the culture of this new and valuable production to the Canadian farmer.

From the various sources that we have received information from the Western States of the Union, we are led to suppose that the farmers in that quarter are about turning their attention largely to the culture of hemp. Their soil and climate are peculiarly adapted to the surcessful growth of this plant, -so also are their navigable rivers suited for a cheap and expeditious transit, but the genius of the people is quite unsuited to the peculiar kind of work that is absolutely requisite for this crop. Although the subject has been agitated, through the medium of the press, and a premium of forty dollars per ton awarded for the domestic article by the government, still the advance made in its cultivation is so trifling, that it is scarcely worthy of being mentioned. In a recent statistical account of the products of the United States, it is stated that Kentucky produces the most hemp of growth of that State is only 16 000 lbs. If this account be correct, which we can scarcely credit, one would suppose that there is quite as good a prospect of the Canadas supplying the British navy with hemp as the United States. We should, suppose that the above figures must have been intended for tons, instead of pounds, as it would not require a very great effort on the part of a single farmer to grow that number of pounds.

We admire the style of Mr. M's composition, because it is admirably well calculated to attract the attention of its readers to the intrinsic merits of the hemp region of the West. I had the pleasure to meet with David Myerle, Esq., the subject. pointed out to the American farmer in and Water-rolling of Hemp. His attention, the west we would zealously press upon with a view to do not be a government agent, and the notice of our Canadian friends, for The Conudas is, emtheir adoption. phatically, the country that should supply the British navy and nation with all the hemp and flux that is required from agroad; and, in our humble opinion, the period has arrived in which a successful The land best adapted to the culture of buildes in the culture and henry is that which has been time ed with preparation of these plants for market.

All that can be grown for a few years to be the culture of buildesh walnut, backeye backburr, and a reasonable proportion of white oaks or rehistorically spread too.

All that can be grown for a few years to be the culture of buildesh walnut, backeye backburr, and a smooth to the teach. The name is then fine the culture of buildesh walnut, backeye backburr, and a smooth to the teach. The name is then fine buildesh walnut the same was a smooth of the teach. The name is then fine is the culture of buildesh walnut to be a smooth of the teach.

burden will be heavily freighted with Canadian hemp for the British market. It is a gratifying circumstance to know, that this long againsted subject is about being placed in a position that the Canadian farmers may know the exact amount of the profits attached to the cultivation of this plant for domestic manufactures, and whether it can be profitably cultivated for exportation to Britain or not. The writer has sown a fraction less than an acre this ven., and will probably sow five or six acres the ensuing year. These experiments will be duty and properly reported, so that the public may form their own opinion of its profitableness. The crop now upon the ground will yield about ten cwt. of fibre per acre, and about thirty bushels of seed. amount of produce is considered a full average crop, and we are of opinion will remunerate the grower in the same ratio as a crop of wheat would which will yield an average of forty bushels per acre. The profits, however, will be much larger when the culture of this plant is well understood, and also when proper imochinery is employed in preparing it for market. We are of opinion that hemp may be successfully grown as a any State of the Union, yet the annual preparation crop for wheat, and that by this practice the produce in wheat would be much larger and much more certain, and less liab'e to rust, than if the land were managed for the wheat crop in the ordinary manner. As the Treatise will occupy a considerable space, and as we intend to continue our suggestions on this subject from time to time, we shall for the present draw our remarks to a close, by recommending the following article to our subscribers, for their careful perusal:

Nashville 14th June, 1814,

To the Editors of the Tennessee State Agriculturist.

On a late visit to Missouri, the great The course which he has author of the enclosed treatise on the Culture been elicited to this subject, and by inserting his treatise in your paper, you will no doubt render a service to many of your readers.

JNO M. BASS. Yery respectfully, Washington City, Jun. 8, 1814.

Sin -The following Treatise on the Cul-ture of Hempand Water-rotting, is submitted to the farmers of Mesouri and the adjoining States:

frosts; and when time for seeding, (which is from the 1st of April to the 10th of May,) it should be well ploughed, harrowed, levelled, and shoothed.

The seed should be sown by adverse, one bushed and a half to the nero. We en the blossoms begin to fall (which is from the maddle of July to 1st of August,) it should then be cut. Hemp left standing too long, uguets the staple, and produces a barshaess and weakness. It should be out before it rarpe, weakness. It should be cut before it i ripe which is before the blo-soms begin to half By attending to this purticularly, you would find the but heavier, as it will return its only substance, (what is termed essential oil) which, by being left standing until ripe, the action of the atmosphere, as a ripens, causes to leave it, in a certain degree, of its clasticity; consequently, when the hemp is appled to the hatchel, the staple breaks into small fibres, which are converted into tow, and when the tar is applied to it, and converted into condage it becomes stubborn and brittle in frosty Weather, and consequently not so durable. Any chemical process, or my other mode to produce a rapid solution of the gum, extracts the oil, weakens the staple, and produces the former injurious effects.

The a strument for cutting is similar to the point of any-ordinary scribe; it is about two feet long from the point, with a socket standing at right angles with the face of the bade, and-angling to the edge to prevent the p rson when cutting from bending too much, as it is necessary for him to stand uplight as possible, to keep the hemp from tangling. The temp should be cut as close to the ground as possible, and, for watering, it should have the top cut off as far as the seed ends, and thrown into the shad; or killa dired. The drying it the shade ret tine its natural color, and causes the essential of to be retained. The kiln drying has the same effect, but a more rapid process. The sun effect, but a more rapid process. effect, but a more tapia process. The sur-produces a harshness when roiten, and the dew discolors it, and produces less weight. Pulling hemp is not recommendable; it imputes the soil as well as the quality of the mines the soil as well as inc quanty of the hemp—more particularly that of the water-retted. When cutting, all the large hemp should be had by itself; it should be bound up noto bundles with two bands on them, about the size of 6 or eight inches through in the butts. When two large, they are awkward to handle, which wastes the hemp. Also, place sticks in the centre of cach bundie, about one then in thickness, or more; it prevents the hemp from breaking and tanging, when rotted, and will assist to facilitate the workman in handling it-the same sucks will answer for a whole cray. them, and be particular in selecting the size of hemp, placing the large in a piol by uself, and the small also in a pool by itself, as the large undergoes a more rapid solution when immersed. The hemp placed in the pools should be carefully packed down with narrow plank laid on the points and buts, and with rock or tamber to weigh it down; rock is preferable.

No hemp less than 5 feet should be waterrotted. Sizes under this may be dew-rotted. It depends upon the temperature of weather in what he gib of time it produces maceration. In the month of August it takes 4 or 5 days; September, 6 to 8; October, 10 to 12; December, 3 or 4 weeks. After the 4 h or 5th day in August and September, the 6th or 8th day in October and November, and the 3d week in December, or less unio, it should be carefully examined, to ascertain when it has fully come to its solution. You will decover that the stalk has a roughness on the surface previous to its being placed in the pools. When the solution has arrived to its extent, by drawing a few stalks out of the All that can be grown for a few years to be storn lands answer well. The land should isled, take it out immediately; spread ton come will be required for home consumption, but we trust the period is not far down in the Fall to receive the Winter or three times until you find that the puts has has hardened.

its strength. In breaking the bearp, it should be broke in small bands, about one-third of the ordinary size. In all my experience, 1 find our hemprequires to be porperly hatcheled, to stand the test the government requires. to stand the test the government requires. This is entirely owing to the different mode of handling the Russia hemp; but by breaking in small hands, it relieves itself of sheaves, and produces less two, and cones nearer to the quality of Russia Riga Rhine, which quality of hen p the government uses for the Navy. It should not be applied to the break test along a production of the present the standard suffered to presente. too often, nor the breakers suffered to practice the habit of breaking dew rotted hemp, by beating it over the break to relieve it of the herds. It should be thrown up loosely into the atmosphere, to let the air pass through it-In drawing your hemp, you should draw it from each end, so that the staple will draw clear and have an even hand. See particularly that the buts of the staple be even, and that all the drawings be handed to uself, and not placed in the prime hemp, as it is the habit of doing in dew-rotted. All hemp with the drawings secreted in the centre, will not pass-inspection. The hemp must be perfectly clear of sheaves, and that must be effected clear of sheaves, and that must be effected not by listle breaking and beating across the break, but by plenty of shaking. I have had the strongest evidence, in all my operations, that hemp broke in small hands, say 10 or 12 stalks at a time, will yield less tow in hatcheling by 20 to 30 per cents, if the hemp is properly round. Also schutcheling helps the hemp greatly, and causes it to yield less tow, and steniolitous out the steple. and straightens out the staple.

This process is very indispensable to produce a merchantable article. The instrument for a hierchithmine arrive. In meaning a pour nemperosery when hear the content and schulicheling is a flat wooden or non kinde in solution. If you permit to have two much the form of a paddle. The hemp is placed on not, it will impare the hemp seriously in strength board appright, about four feet long; one half and in weight, and to avoid this to those that of the length of the hemp is held by the left are not particularly acquained with its proper hand at the top of the board, and the right solution; they may taken to under the results that which when monetain that it is proper solution; they may taken more to field. applies the knife, which, when properly applied. leves the hemp of the small sheaves which the article, and consequently produces less

This has been proven to be fact by those who have fested it at one of my pools in Kentucky, and also by an experienced larmer in Missouri. Hemp that is darkened by the dews, or colored water, which is pro-duced by the blackness of the soil, will not meet with a favorable demand in the easiern tharket; it partakes of the character and price of dew-rotted hemp. To avoid the, immediately after your hemp is our place it under shelter, or shield it with inferior hemp. that the dews or rains will not affect it; and also let your pools be made of plank, or other-yuse place them at the side of the stream, and dam it sufficient in height, that, in case the stream should, be disturbed by rain or fresher, it does not pass through your pool.

The construction of Pools is as follows.

It it should receive several two feet love. A was e gate around them to has hardened. If it should receive saviral two feet lock. A was egate around them to rains, it does not injure, provided you attend to turning it. The rains wash off the gain pod', it so, it, roduces an uneven temperature which lies on the surface of the lim, and when applied to, the healt, it produces a clearer staplied to, the healt, it produces a clearer staple, cleans easier, and makes less tow.

There is also another mode, when the stalk, but the former is the most certain. The hemp as its street, should be thrown mus shocks or ricks well secured from the weather penetrates of the water producing their centre. If the weather penetrates the conter, it will injure the staple by reducing its strength. In breaking the heap, it should is story command the, particular by numming its strength. In breaking the heap, it should is story command the, particular by numming wate. To wate say in points or large streams is not so commend the, particularly running stream. The hemp becomes rregular in its so unon, and loses its hist. The preparations stream . so unon, and loses its ind. The preparatio's necessary is to have two long supling-; pin them at each end with coss-bars, forming a raft, with uprights at each end, their length to be the dopin of the water. These form a to be the d-pth of the water. These form a raft, say 20 or 30 it, long; load your hemp on them, and sink them with rock. For the conveyance of water to and 1 on your poor, will call your attention to the leader pipes manufactured in this cap by Mr. W. V. Thompson. These pipes will be a great acquisition for this 1 tripose, as also for water-my stock and avoiding waste of water. They veyance of water to and form your pools, I can be made any length, and at a much cheaper rate than an ordinary spoutthose larmers who are not in posession of springs, they can fix a small lifting pump in any part of then farm, and supply their vats with water.

As regards the process there need not be the slightest apprehension as to deferences effects to health. As a demonstration of this lact, in my operations for the Givernment, I had about two hundred men at various pools m the hemp-growing region in Kentucky, from 1840 to 1841, in a circuit of 100 miles, and there was not one instance of sickness, although many of the men exposed them-selves to the wa er when it was not necessary. also advise gentlemen not to attempt to deliver more than one ton of hemp to each, laborer they have, and not to exceet from 5 to 10 tons the season: beyond this will produce

I will also observe the necessity of watching your hemp closely when near the time of its full ned too far, and spreadil down upon the field, for the dews and tring to finish, but at the adhere to it, and strengthens the staple for the same time be particular to attend to turning it, hatchel, which adds greatly to the value of that it may receive an equal portion or dews and rains throughout. Hemp rotted in the is indispensible for them to adher to these instructions. There is no more laborational for operation, thandew-rotted. Hemp water rotted judiciously, and handled properly, will gain from 10 to 15 lbs, on the hundred above the dew-rotted, which more than amply pays for the difference of labor or a sum amply pays what is a sum of the homp growing regions of Russia, the crops amount yearly to 90,000 tons. The best hemp produced is in the government of Cheringoff. The hemp is mostly of short staple, and of the very best quality, the produce is about 15,000 tons yearly ; - and also in a part of the government of Orel, short staple is produced, and car-ried to the port of Riga, but the great part of the homp produced in this Government is long f which the produce is about 14,000 The hemp of Koursk is mostly long stuple, of tons. staple, and the produce is about 13 000 tons. The hemp of the government of Looler, is also long staple, and produces about 13,000 tons. In the governments of Tamboff and Ruszan, the produce is about 14,000 tons, but not of good quality, being more after the color of flux, and its staple is weaked; it is chiefly produced The construction of Pools is as follows, for the Arciangel market and a portion of it accomplish this great work. I lean upon you, Small spring hunches dug down two or three reaches S. Pentersburgh. The hence grown in the Farmers of the West, to mail to my leet, a teves thrown up around them, and the government of Smolessis, 1, 50, short staple, and and give me your mount and carried small flood gates at each end, made simply particles of the character of the produced in the co-operation. And to pour interpretating out of four pieces of board, a fool wide and government of Tamboff and Russia, and which [Continued on the 10th Page 1]

is mostly manufactured into sail cloth fabrics ; the produce is about 8,000 tons. The government of Calonga produces about 7,000 tons, mostly short staple. The Russian mode practiced in preparing their hemp, differs only with their instruction in relation to the care and paints in preparation: a portion of the country also adopts a chemical process to produce a rapid solution of the gum, which is injurious to the stapio. As this country is subject to frequent had storms, the crops often times fall short of this.

In laying this information before you, my o'heet lato convey to you the quantity and the various qualities of liemp produced in the bemp growing regions of Russin. You will also notice that we have a decided advantage over the Russian article, in comparing the small quantity of long stople to ours, as all our hemp generally is at long staple; therefore, by assiduous attention to the culture and prepraring of it, our staple must and will have the ascendancy in the European market: in a reasonable time, Missonri can supply the whole world with liemp; as well must lilinois and Iowa arrive to be extensive himp-growing States, and of a superior quality. And let the agricultural interest of these States buckle on their energies and industry, and consummate it to the advancement of their own prosperity and the country in general.

I have had the assurance recently given me, from a gendeman direct from London, of the highest standing in mercantile transactions, that the moment we are prepared, he will effect a contract to supply the British government with our hemp for the Navy, which consumes equal to our Navy and our commercial enterprise, about 12,000 tons yearly. Also, the consumption of the part of London is 20,000 tons yearly, embracing the requirement of the Navy. I have also had the assurance, from a gentleman of high standing in commercial transactions in France, that from the character of our hemp, the moment the country is prepared, he will effect the supplying of the French Navy with our staple. These countries are desir us to encourage us, that they may have two markets to go to in case of any warlike dis-

I have labored with great sacrifide of interest for these four years, with the pleasing, and proud anticipation to see the country mdependent of this foreign staple, and that we may become heavy exporters; and the day is not far distart, when these anticipations will be fully real zed.

And to facilitate this most important object. I have, by the societations of a number of others in power at the city consented to enhirk upon this arduous and hazardous undertaking with the view supplying the Navy with American Water Ruted Hemp, from the West, for a term of years. I do assure you gentlemen, that no preuniary inducment could have influenced me to embark upon this work of enterprize again. But some; what must be done to keep alive and finish this great work, which has been commenced, and is in progress to its ultimate accomplishment. I have lost a large ortune in establishing the practicability of it, and have undergone great affections, in consequence of which I have felt reluctance to subject mysell to a second trial of the various circumstances which befet me, in effecting that important object. But with a desire to promore the agricultural interest of the West. and to see my country speed ily independent of this foreign staple, and with the confidence of this jurisiant status, and with the confinence that I have in you, that you will support me in this act of enterprise, I now come forward once more with all my resources and energy, to give this subject and monal importes, that will convince the world and Lie Russan Autocrat, that this Republic can stand and independent of his staple and fabries, and can supply the commercial world. To

From the American Farmer. MANURES. A Prize Essay, By S. L. Dana. SECTION SEVENTIL

Of the Circumstances which affect the

Quality and Quantity of Dung. That we may reduce to some general principle, easily understood and casily remembered, the fact scattered up and down, among the mass of writers and During this time she drapped clear observers, about the different quality of during 599 lbs., or very nearly a bushel onservers, about the different quanty of dang a day. Every affection was or the same animals at different animals, here paid to account any of measurement let me, reader, request your company and weight. The annual amount of while I walk into a new department of dang from one cow exceeds by this action the reasons of this difference in But, as it is amazer of some importance manures i why, for instance, fattening for the farmer to estimate what the company of the farmer to estimate what the company of the farmer to estimate what the company is a standard of the farmer to estimate what the company is a standard of the farmer to estimate what the company is a standard of the farmer to estimate what the company is a standard of the farmer to estimate what the company is a standard of the farmer to estimate what the company is a standard of the farmer to estimate when the company is a standard of the farmer to estimate when the company is a standard of the farmer to estimate when the company is a standard of the farmer to estimate when the company is a standard of the company manures; why, for instance, fattening, for the fatter to estimate what the procattle give stronger manure than working oxen, without going a late into the following statement, containing the results the mode how animals are nouri-hed, of a large establishment, will probably The whole may be stated in plain terms give that average. thus:—All food serves two purposes. At this establishment the cows were The first is to keep up the animal heat, kept up the year round for their dung, and this part of food disappears in It was collected for use free from litter. breathing or in forming fut; that is, and measured daily into large tubs of after serving its purpose in the animal known capacity. The average mumber body it goes of a the breach or sweat, of cows kept was fitty-four for nine and a or it forms fut. It is so essential to the half years. During that time they conceined breathing, that we will term it sumed of beets, meal, and punkins. of the body.

never do form the materials for making 22 lbs. of hay per cow, and two and blood. We may therefore term this about a half pecks of dung per day, or kind of food the blood formers. We have then two classes of food; the breathers, and the fat formers, and the made to determine how much the quality blood formers. If we look to the nature of the food affected the quantity of dung, of these different classes, we find that a trappears that the solid and fluid excrements, starch, and gum are breathers. Now there are three principles found in with the food, as follows: Now there are three principles to the plants, exactly and identically the same in chemical composition with white of the chemical composition with the chemi three principles, exactly alike, whether 100 the of pointoes derived from animals or from plants, are I shall not, the only blood formers. reader, tax your attention further upon 100 lbs. of rye this subject, than to say and to beg you remember these important facts. First, all food for breathing and forming fat above, estimating both as dry, or free contains only these three elements, from water of vegetation, 32.9 lbs. of oxygen, hydrogen, and carbon. Secondly, dung, and this estimate as dry is reduced all food for forming flesh and blood, in to 5.6 lbs., or 26lbs. of dry food gave 14 addition to these, contains nitrogen.

fact, that of all the food animals take, green grass, about one tenth. It will be that alone which can form fi sh and easily understood why the quality of blood contains nitrogen. The door is food should affect the quantity of dung. now open for explaining why age, sex, The more watery, the less in bulk is kind of employment, difference of food, voided, because there is actually less difference of animal, can and do produce substance taken. And as the animal a marked difference in value of different requires this to form its flesh and blood manures. And first let us consider how and fat, and to keep up his breathing, so

dung which has been given, is that of cows fed on hay, that is, herd's grass, red top, &c., or what is usually termed, English hay, potatoes, and water. caule kept up the year round; an animal, so treated, consumed in seven

Water,..... 611 lbs. Potatoes, 87 lbs. Hay, 167 lbs.

food of breething or the breathers. The brewery grams, corn-stalks, turmps, second purpose answered by food, is, to potatoes, carrots, and cabbages, 942.436 build up, sustain, and renew the waste lbs., giving an average of green fodder, for each cow, per annum, 8,164 lbs. Now all this is done from the blood. The total dung for nine and a half years To form blood, animals must be supplied was 120,520 bushels, or per cow per with its materials ready formed. They annum, 235 bushels. This gives a daily are ready formed in plants; and animals consumption of green food, 5 lbs., and

But, according to some experiments,

Cattle, Sheep. Horses 100 lbs. of mangel-wurtzel 100 lbs. of green clover 100 lbs. of oats "

My own experiments on this subject give for 100 lbs. of hay and potatoes as lbs. of dry dung. But as general facts,

ed by the ordinary channels. So when much vegetable fibre exist, as in chopped straw and hay, then, as it goes but little way towards supporting breathing or forming blood, a greater bulk is rejected. In grains, on the contrary, which afford much of all that the animal requires, less is extracted and more voided. These circumstances are intimately connected.

The Quality of the Dung.

It is affected first, by the senson; second, by the age; third, by the sex; tourth, by the condition; fifth, by the mode of employment; sixth, by the unture of the beast: seventh, the kind of tood.

1st. The season; it is because digestion is worse in summer than in winter, a general fact, that summer manure is best. And where cattle are summersoiled, it is said the manure is worth double that from stall-fed winter cattle. I do not think much is to be attributed to the worse digestion in summer, but the cause of this great difference in value, is to be found in the fact, the soiled cattle generally get a large proportion of bloodforming food.

The wear and tear of their flesh is little, and hence, requiring little of their food to keep up their flesh, a greater portion goes off in dung, which thus becomes tich in ammonia. The green plants, rich in nitrogen, afford abundance for milk, which being rich in all the elements of cream, should afford large returns of butter.

2nd. Age; from the fact, that young and growing animals require not only food to form flesh and blood, to repair the incessant waste and change taking place in their had es, as in older animals, but also a further supply to increase the bulk of their frame, it is evident that their food will be more completely exhausted of all its principles, and that also less will be returned as dung. All experience confirms this reasoning, and decides that the manure of young anima's is ever the weakest and poorest.

3rd. The sex. This is one of the most powerful of the causes which affect the strength of dung. From the remarks which have been already made, and which I trust, reader, are now fresh in your memory, of the important part acted by nitrogen in dung, it must be plain why sex should exercise such influence.

1st. In all food, as we have explained, that only which contains nitrogen, can This is the gist of the whole matter, we may say, that well cured hay and the form flesh and blood, or substances of far as relates to manure. Bear in grains, give one half of their weight of similar constitution, that is requiring a m.nd, as you go on with me, reader, that dung and urine; potatoes, roots, and large proportion of nitrogen, as milk. Hence an animal with young, that is a cow before calving, requires not only materials for its own repair, but to build up and perfect its young. Hence the food will be most completely exhausted of its nitrogen, and consequently the dung becomes proportionably weaker.

2nd. The young having been formed, the quantity is affected; this depends on will be exhaust more completely his lood then milk is required for its sustenance. the kinds of food. The analysis of cattle More going to support him less is return. Milk contains a large proportion of nitrogenous or blood-forming elements, tion. It is a hotter manure, quick to ent, and so the cause which originally made quick to work, and is soon done, the dung weak, continues to operate 7th. The kind of food. We have during all the time the animal is in milk. already spoken of this as affecting the See then, it is evident, affects materially quantity of dung. Its effects are no less the quality of the dung.

rials to renew its waste.

its elements, than when the animal is in food, the richer the dang. poor condition. In the last case, not grains of all sorts, peas, beans, &c., only waste, but new materials must be will always give a richer dung than supplied. If the animal is improving in truits, as apples, &c. The more introflesh, (and here, reader, I would have genous the hoy the richer the dung, you bear in mind, the distinction between Meadow catstail and tyo grass are nearly flesh and fat.) if the animal is improving six times stronger in ammonia. Red in flesh, then the manure is always clover is twice as rich in mirogen as in flesh, then the manure is always less strong, than when he is gaining fat, herds grass; wheat, barley, and ryo There is no manure so strong as that of fattening animals. An animal stall fed, kept in proper warmth requires but little of his breathing food, to keep up his heat. Alt the starch, gum, sugar, &c., go to fat. Having little use for his muscles or flesh, that suffers little waste, and the nitrogen which should go to form flesh. is voided in dang. If it is a sire, no mith is given during this period, for a cow, in milk, fats not.

The dung, then, of fattening animals, contains more of all the elements of food for plants, than at any other period, and is peculiarly rich in nitrogen. I trust, turned in, about three quarters of a reader, it is not so long since you have mel the word-ammonia, that you are due to this nitrogen. Now the source of this nitrogen is in the food, and the relative, not the sheefalls. It is as, during futtening a series of the relative, not the sheefalls. source of this introgen is in the food, and is during futtening, grain is supplied for its starch, &c., to make fat, and yery little waste of the body taking place, the extra nitrogen of the blood-forming materials of grain, is nearly all voided its thus made evident. But to return to in dang. in dung.

working beasts, suffer great wear and animals fattening on oil cake, give mantear of flesh and blood, bone and muscle, are in value double that of common thews and sinews. Hence their daily food, stock. Here abundance of nitrogen is supplies only this daily waste; the food supplied where every lutte is reis very thoroughly exhausted, and of required, and consequently much is
course the dang is weak. It derives its
avoided in dung. The point to which we
chief value from the exerctions of those
parts of the body which are voided as
waste materials, among the exercments.
There is a distinction to be noted here:
way for our entering upon the next Serexerctions are the worn out flesh and ton:—the second class of manures. excictions are the worn out flesh and tion;—the second class of manures. blood elements, excrements the undigested and unused food; dung includes both excretions and excrements. Now the chief value of the dung of working cattle)

as at the same time it contains a larger kingdom, entering into and forming a part substance which forms ammonia in rotportion of nitrogen, and is very fin by of plants, and from this source introduced chewed, it runs quicker into fermentainto the dung of animals. Their action,

marked on its quality. Now all that re-4th. The condition. If the animal is quires to be said on the subject, is to in good condition, and full grown, it re- tremind you, reader, of the two divisions animal body. They are animal salts, quires only food enough to supply mate- of food, the fat formers, and the first Here, then, let us divide the second class and blood formers. It must be ovident, of manures into animal salts, which are that the more of this last the food con-truly manures, both their base and their Hence, the food, supposing that always that the more of this last the food con-in sufficient quantity, is less exhausted of tains, that is, the more nitrogenous is the Hence, straw, green carrots and potatoes, contain only about one third to one fifth the ammonia of herds grass, and turnips only about one sixth. The quantity of amounta contained in these different grasses and straws, shows at once the effect they must have in the compost heap. The kind of litter must have no small effect upon ... value of manure. And while we are upon this subject, it may not be out of place to mention, that the kind of a green crop turned in, materially effects the value of the process. While the straws of the grain-bearing plants afford for every ton of green crop pound of ammonia, green corn stalks and herds grass, about five of ammonia per is thus made evident. But to return to the quality of the dung, as affected by 5th. The mode of employment. Your the food, it has been proved, that

SECTION EIGHTH. Manures Consisting of Salts.

depends upon the excretions.

6th. the nature of the beast. If his coat is wool, he requires more sulphur and phosporas, the natural yolk or sweat of his wool, more lime and ammonia, than does the hairy-coated animal. Hence sheep produce manure less rich in many of the elements of plants, than cattle; but as at the same time it contains a larger knowledge on the site of the ring and forming a part

whatever be their name, has been explaned. But the salts composing the second class of manures now under consideration, are not of mineral origin-They are derived from the animal king. dom. The source from which they are into mineral salts. Here again, reader, you will find that the few lacts, which we have pointed out, relating to the food and nourishment, will help us on our way, in tracing the source of these animal salts. It has been already said, that the food of animals is divided into two classes-that which does, and that which does not contain nitrogen. All domestic animals cut these classes. In a few words, let us trace their course after the animal has digested them. The one class goes to form fat, or to support the natural heat of the body, and passes off by the skin in sweat, or in moisture of the breath, and all its excess or undigested part goes off in dung. The excess of nitrogenous food, all that not required for repairing the daily waste of the body, or to increase its growth, also passes off in dung, as excrement. This is a small portion, and its effects on the strength, have been pointed out. But the wear and tear, as we may call it, of the flesh and blood, the parts which are daily and constantly thrown out of the body, as exerctions, or old materials, enter the circulation, and pass out of the body in urine. This is the point to which I would call your attention. The undigested food, and the excrements not containing nitrogen, go off in dung. The food and the spent parts of the body, containing nitrogen, go off in urine. This last, too, is the course of most alkaline salts taken into the body. They pass off in urine. Here, then, we come to the subject quite prepared to understand it. The urino is a collection of salts, some are of mineral, others of an mal origin. But that which gives the urine its peculiar and characterestic properties, is a substance formed, from the nitrogenous food, and termed UREA. Now you need hardly trouble yourself to remember this new name; all I want you to understand about it is, that when urine is exposed to air it rots, and this peculiar substance is changed to ammonia. This is the point to be remembered. In considering urine, therefore, as a manure, it will not be necessary to point out further the mode of its action, than to refer that of every animal, to its salts and power of forming ammonia. The quantity of the last will be in proportion to the quan my of urea. These are other salts of ammonia in urine, and also mineral salts. These affect but little, the value of urine as a manure.

It is the urea, essence of urine, that

reader, if this is impressed on your mind, you will perceive, that the chiefest things to be regarded in urine, are first, the cucumstances which affect the quality, and quantity. Second, the best mode of pro-Third, the time required for the process, and fourth, the best mode of preserving fuse you more than the names, aye, and term. hard ones too, which are given to the "Sounds inharmonious in themselves and harsh, varieties of pears and apples. All you And only there, please highly, for their sakes." want to know is this, does urine contain. as solid dung does, water, mould, and And though there are few who do not willingly salts ?

It does. The mould is so small a part, it may be left out of view. The salts are like those in the solid dung, mineral salts, yet far different to most imaginings is the rag. and then we have the peculiar principle of the dreary winter storm, the roating uren, which for all practical purposes old gate on its rusty images! all pleasing, howmay be called ammonia. We may ever, to a musical ear, when found in keeping may be called ammonia. We may then with this division present in a table the comp-sition of the urine of vari-tenter, it it thought your readers would conous animals at one glance : -

Water. Salis Ammonia. Cattle urine, per 100 lbs. 92.62 3.30 4 4.70 Horse urine, per 100 lbs. 94.00 5 03 Sheep urine, per 100 lbs. 06 1 20 280 Hog urine, per 100 lbs. 92 60 561 Human utine per 100 lbs. 95.75 1.88

Now cast your eye carefully over this table, the figures at once tell you the cal sound, that in a calm evening I can tell what value of these different liquids. It he last column gives the true value. The other I he last salts vary much in quantity, and this affects the quality. The actual amount of ammonia in human urino and cattle dung is about the same; yet on actual practice it is found the effects of urine are nearly double those of dung. Look now for the reason of this; in the first the major key, entirent's day and sometimes place, the principle which gives ammoniat the major, by their harmonious tinklings. And place, the principle which gives ammonial the mant, by their narmonious tinkings. And it may appear trilling, but I intend to have 3 horses to call the men from I dor-that at breakthatstate. It gives nothing else, whereas in last, sharp, clear, and of a high to e, for dindung, the ammonia arises from a slower decay, and the principle which here af- the evening horn will be in the minor, of a soft fords ammonia may, and without doubt the day and its dutes I have rigulated the does of the day and its dutes I have rigulated the day and its dutes. I have rigulated the day and its dutes a paick action with the land. have a quick action with the liquid, a slower one with the solid. A second cause of the better effects of the liquid, is that it contains, besides its ammonia, a far greater amount of salt, and these give a more permanant effect. The amount of rritaing, toan one that strikes too quick, in an salts in human, cow, and horse dung is about one pound in every hundred. While the urine of the same animals contains nearly six pounds, in every hundred. A third cause of the greater fertilizing action, is found in the pecu ar character of some of these saits, which are composed of soda, potash, lime, &c, united to an acid formed from urea, in the animal body. This acid is like the acid of sultpetre; it is a nourisher of plants, as much so as is carbonic acid.

(To be Continued.)

From the Boston Cultivator.

RURAL SOUNDS.

You must know, Mr. Editor, that Nature has ondowed me with what is termed a musical car, and the situation in which my life has been cast moting a change of urine to ammonia, by an all-wise Providence contributes not a litthe to the development of that bump of m no; tor I have the happiness to live, where every one hopes, if he be successful in life, to diethe animonia, when formed. You will perceive, render, that all along, I have endeavered to point out the principles on which manures act. If you go by general principles, then for a plant practical farmer, like yourself, with only chemistry have been bestowed upon me. But is not the subject upon which I am writing rather farmer, like yourself, with only chemistry have been perceived a found of the torses. enough to understand a few of its terms, they be prepared to accompany me the length to it must be quite a thankless service, to all the may be carried in my flights of imagination? It is true we are told of the music of point out to you in dotail, all the various nature, and even read of the music of the spheres, things contained in urine. It would con- but low seem to be aware of the meaning of the

admit that

"Sweet is the breath of morn, here tising sweet, With charm of earliest birds.

with surrounding objects. This being premised. sider the following description o. my domicale worthy regard, I should be tempted to offer it or your accest nie.as a pormattiture of a well tuned farming establishment. Suppose, their, that I venture, and observe-My farm consists of 150 acres of land, five miles from a market town. has been tong enough in my possession, for all the shifting bars to become gates hung on hing-es, shutting of their own accord; the Triches failing into their catches with so distinct a must gate is being shut by its key note, my front gave being A sharp, and my barn yard ga e, B flit; while the distant and approaching team is know to be more or my neighbours, so soon as I can distinguish the sound of the waggon wheels, there being two notes of difference be ween them, as they pass the front of my premises then come the doors of the out-houses and stables, all in their proper key-notes: while the bells of the sheep, selected in Ris and Julis, and ner, lower in tone, but in the major key, while expense, having had to change them more than once, neither the ticking nor sriking pleasing me, in time or time; for I know of nothing more samiferous than an old drowsy, asthuntte clock, with a ground efore every a roke, which a length comes for him the minor key; or more imperiment and careless way, with a sharp an i annusical ring that absolutely makes one nervous. My parter clock now stakes in the open key of C, in common time, and with a noble co-dence that invites you to count the hours and improve them; the kitchen clock being a third higher in tone, and somewhat sharper in time I have had some trouble with my chickens also, several of my roos ers had voices in the minor key, and were too slow in their ejecul tions, we ile others were too shrill and quick in their movements for my ear and technigs: I therefore took some poins in regulating their voices, so they now crow in 3ds and 5ds, and in perfect

stopped, and the "music of the farm-yard" le now more than mere postry. Then come the dogs, ad in gamut, the watch dogs with a deep and son-rous minor for the night; the sheep-dogs softened and attenuated bark, which active terrifies nor hurries the flock; and the terrier, or rateaucher, with a yap so charp, that the vermic are half frightened to death before they are caught. Our cate, of which we have about half a score, now caterwant in perfect cadence, having exchanged some firts and sharps with a neighbour fifty indes distant, who considers him elt benefited by the transaction: I of Nature, and can enjoy their nocturnal concerts hugely. I have had less trouble with my dairy than I expected, having had to part with one cow only, which had a most terroic bellow for a female, indeed, truly awful; --white the bull is a fine deep, mojestic bass, of great power and compass; the caives in general bing remarkly well in tune. My hogs, being all of the son and cellular breed of Chester county, mikwinto and sweet-handlers, are no longer grunters, but whene in soft accord, very unlike, I exexpect, from the round barre ed Berkehnes, who-e black color and barret trames must, one would conjecture, give forth sounds in accor-dance with the peculiarity of their conformation, and I fear too much of the sesqualtra stop for my feelings; for I must confess, I consider the hog about the least musical of all the animals on a farm, if you except the mule, which, by the bye, reminds me of the promise that my neighbor has made to me to exchange a mule, as one of nime has a most unearthly yell.

And then come the minaies of my family, of whose maricul infents I can truty bon-t ! Here is the true large or organ style embedted in human frame; my wife's soprano, for which I cho e her as a partner, and whose voice and keeping has never varied a demission-quiver from the true puch siece our un on, leads the whole family in perfect accords her voice being at once soft and commanding, meli fluous and excuing; in the minor as well as the major key, first treble and teader mall our family concerts; while our sins and daughters fill the subordinare parts of the piece, leaving no room for discord or disagreement in any, and making such harmony as I never heard at a theatre in all my lite. It is true we have, had some trouble to tune our he'ps, some of them being too flat and others too sharp, but the hormony of my estabhahment seems at present to be about as perfect as any hing, whether human, animate or inzui-mate, can be supposed to be. Thus our labors are sweetened, and the effect of such a size of things is so apparent, that many of our filends have made the remark, " I know not how it is, triend Dinpason, but I visit no house where I am so comfortable as at yours; there i such a feeling of trath and harmony, seemingly in the very atmosphere with which you are surrounded, that I know not how to leave. All goes with the regularity of clock work, and a peace and happiness that may be felt: nothing seems out of time with you." Ah, there it is, says I; that's a second we pay to Nature! But if I were to go into particulars, would they not smile? and am I sure that the is not the case with you at this time ! So, then, Mr. Editor, I take my

"Nature inanimate employs sweet sounds. But animated Nature, sweeter still, To scothe and sausly the human car."

To take Film from a Horse's Eye .-Blow loaf sugar and a little salt into the inflamed eye, and in most cases it will be releived. Sassairas buds pounded, and put in water, to stend till it becomes nearly as thick as cream, applied to the eye, is an excellent remedy for inflammation.

For stings of the adder or slow-worm. apply immediately strong spirits of herishorn. For sting of bees, apply chalk or whitening mixed with vinegar,

Poisons swallowed by oxen are comtime and time, and my yard now sends forth a monly the yew, the water dropwort, and the concord of "sweet sounds." Some of the hens common and the water bemlock. One and a half also had voices of arrant scolds—these I have I pint of linseed oil is the best remedy.

METALLURGY AND THE MANUFACTURE OF METALS.

Of Nails .- To the United States are due the invention and introduction of car nais. and the tower machines which cut and head | them with such astonishing rapidity. The following extract from the writings of the celebrated Dr. Ure, will show in what high estimation this branch of purely American industry is held in England :-

"As units are objects of prodigious consumption in building their block houses, the extrems of the United states very early turned their in . chanical genius to good account in the construction of various machines for making them. long sines as the year 1810, it appears, from the report of the 'cereary of the Treasury, that tay manufacturing industry which has made great possessed a nachine which performed the cutting progress in the United States, and which has and healing atone operation, with such rapidity to the familial source of many valuable and their invalid turn out powerfact of 1810 as here. that it could turn out upwards of 100 nails per tragemous inventions and improvements. The minute. Twenty years ago, says the Sec. casting of things on to a wrought from pin with a tary of the State of Massachusetts in that report, free and good joint, is truly one of the triumphs tary of the State of Massachusetts in that report, free and good joint, is truly one of the trumphs some men, then unknown and then in obscurty, of mechanical ingenuity. One half of the hinge began by cutting slices out of old hoops and, by, is cast on the wrought from pin in a sand mould with several stokes of the lammer. By pro- to chill the surface of the moreen from when it gressive improvements, slitting mills were bailt, comes in contact with the cold from of the half and the shears and the healing tools were per-tirst to med, which prevents the two halves from feeted; yet much labor and expense were adhering. Many improvements have been requisite to make nails. In a little time Jacob patenced for various methods of forming the Porkers, Jonathan Ellis, and a few others, put moulds, most of which, I believe, are insuccessful into execution the thought of cutting and head-, operation. The price of hinges thus made is, of ing mails by water power; but, being more course, very low, and peculiarly adapted to the mient upon their machinery than upon their condition of this country. pecunitry affairs, they were unable to prosecute, the business. At different times other mendage from the places being out into the required form spent fortunes in improvements; and it may be by governal seed does operated by lever power, said, with truth, that more than \$1,000,000 has and the knackles formed to receive the joint part been expended. But, at length, there joint by heing forced into a die which cails of bends efforts are crowned with complete success, and over the knickles. The parts are then filed, we are now ails to manufacture at about onethird of the expense that wrong't nails can be manufactured for-mails which are superior to surginglit-ron longes has, of course, greatly them for at least three-tourshe of the purposes to which nails are applied, and for most of those purposes they are full as good. The machines unde use of at Odiorne,—those invented by J. nathan Elbs and a few others, present very fine sp cime is of Amer can genus."

States, which, for some purposes, cannot be who made many attempts to rend r this or autosubstituted by cut mails, because of their britile matter instead of a handler aftoperation. As early ness, was so limited, in consequence of the last e year 1800, a patent was granted by this expense of performing the whole operation by hand, that, unul a tew years since, it was scarcely worthy of consideration; but, after many attempts, machines were maily invented, and are now in successful operation. for making this kind of natis with no more hand labor than is, necessary to supply the rod of iron to the machine, which comple eather and by a series of connected operations : cutting off a piece from the bar, rolling it into the required form, and then forming the head. These machines have been very successfully applied to the making of this automatic operation. large nails, called spikes, employed in trame structures and in ship-building. When these structures and in ship-building. When these machines, however, were applied to the making of what are termed "hook headed spikes"—tout. is, a spike with the head all on one side, used for formed, the part is dapped in cold water, and fasiening the iron rates of radioads—at was loand, then plunged, said we, into flour, keeping it there that the head, formed by simply bending over for a moment or two; by this means a certain that the nead was not sufficiently strong to resist quantity adheres to the parts, and prevents the the jar to which they were subjected, and there; access of the air. It is remarkable that the fore were inferior to those made by hand, and flour tails in sea es from the surrounding parts strengthened at the head by the skill of the work; the next day, whilst on the burn it remains ad-This defficulty, however, soon yield d to enterprise and ingenuity; and machine made spikes are now preferred to those mide by hand Those simple and successful improvements cannot be dwelt upon too much, as they and cate that important results are generally attained by the simplest means. Instead of bending the head entirely over at one operation, the part of the metal of which the head istormed is only bent ever to form an angle of about 3d degrees with corn, grate it in 2 dish. To one part of this add the shank of the naid, and then it is struck by a one egg wed beaten, a small teacup of flour, second die moving in a line, or nearly so, with hal a cup of butter, some salt and pepper, and the shank, which limishes the head, and forces or mix them well tago her. A table spoonful of the concentrates the motal in the angle uniting the bead and shank—thus giving all the requisite atrength where it is required. As the brittleness of the cut nail constitutes its infenority in one butter.

respect, and its sharp and serrated edges its superiority in another respect, to the wrought nail—the former being due to the fact that the ength of the nail is formed from the breauth of the bir from which it is cut; and the later because it is cut by a shorp instrument, instead of being rolled or hammered—many attempts have been made to make nails which would have the combine Indvantages of the cut and wrought. by rolling he bars or rods from which the male are to be cut, of the desired form, and then to cut them in the length of the bar, so as to have the grain of the iron run in the Lingth of the nail. I believe, however that so far, these attempts have been unsuccessful.

Door Hinges .- The making of hinges, ommon vice griping these pieces, headed them other haif is cast on to u, in such & manner as

The wrought-non hinges are made of plate and the pin introduced to unite the top halves. The in rouncion of this method of working reduced the expense of manufacuring them,

Of Horse Shoes .- The manufacture of an article of such general and extensive use, the price of which affects to large a portion of the population of all countries as horse shoes, at an early period attracted the attention of ingenious The manu acture of wrought mails in the U. i manufacturers and mechanics in this country, office for a machine for making horse shoes; but which, from a want of knowledge of the nature of tron, and the manner of working it, did not succeed. Within a few years past, several machines have been patented in England and the United States, that answer the full expectations of the projectors. To one acquainted with the nature of mon, the various operations to be performed in giving the requisite form to a horse since, presents many difficulties; and, therefore, it required a mind of no common order to perfect

> Cure for Burns .- The M. dical Times rays: -- After opening the vesicles, if they are

> Croup. - Two or three spoonsful of strong ley, ma'e of oak ashes, and m'xed with molasses, are recommend as a positive cute for croup.

Artificial Oysters .- Take young green corn, grate it in a dish. To one pint of this add butter will make the size of an ovster. Frv them a title brown, and when done butter them. Cream, if it can be procured, is butter than

NEW METHOD OF OBTAINING CREAM.

We extract the following from the valuable Report of the Hon. Mr. Ellsworth, Commissioner of Patents.

New method of obtaining Cream from milk; by G. Carter of Notte-gham Lodge, near Eltham, Kent.

The process of diverting the milk of its component portion of cream, to an extent hitherto unattainable, has been effected by Mr. Carler, and is thus detailed by that gentleman, in a paper presented to the Society of Arts:

A peculiar process of extracting cream from milk, by which a superior richness is produced in the cream, has long been known and practiced in Devoushire; this produce of the dames of that county being well known to every one by etcani. As there is no neculiarity in the milk from which this fluid is extracted, it has frequently been a matter of surprise that the process has not been adopted in other parts of the kingdom. A four-sided vessel has been formed of zinc plates, twelve muches long, eight melies wide, and aix inches deep, with a false bottom at one half the death, the only communication with the lower appartment is by the lip, through which it may be filled or emptied. Having first placed at the bottom of the upper apariment a plate of perobtained the appearance of which is equal to that of the false bottom, a gallon, or any given quantity, of milk is poured (immediately when drawn from the cow) mil it, and must remain there at least for twelve hours. An equal there at least for twelve hours. An equal quantum of booling water must then be poured into the lower apartment through the lip. It is then permitted to stand twelve hours more, (i. e. twenty four hours altogether ;) when the cream will be found perfect, and of such con-sistency that the whole may be lifted off by the sistency that the whole may be fitted out by the finger and thumb. It is, however, more effectually removed by gently mising the plate of perforated zine from the bottom, by the ringed handles, without remixing any part of it with the milk below. With the apparatus, I have instituted a series of experiments, and, means of twelve successful ones, I obtained the following results :-

Four gallons of milk, treated as above, produce, in twenty four hours, 44 pints of clotted cream; which after churning only fifteen minutes, gave 40 ounces of butter. The increase in the cream, therefore, is 124 per cent., d of butter upwards of 11 per cent.

The experimental farmer will instantly per-

ceive the advantage accruing from its adoption, and probably his attention to the subject may produce greater results.

FROM MR. FOY, ON PRESERVING BUTTLE Hartford, Jan. 12, 1944

Sir,—In answer to your enquiry.—What has been your price in putting up butter, especiely for preservation in hot chimates, for long capaciely for preservation in not contact, at have voyages ! I will cheerefully state that I have had considerable experience on this subject, and, have considerable experience. There ero in some particulars, good success. There ere many things required to ensure g od butter. The butter itself must be well man: that is, worked enough and note on more and alted with rock salt. This being well done, and the buttermilk all expelled, the butter may be packed in good white oak, well seasoned wash, and to filled. In each dismission leaves a seasoned wash, well filled. In cool climates larger can be used. In het climates it is best to have small used. In hot clamates it is bost to have small carks—say from 25 to 30 ths.—so that foo much need not becaposed while using. Then put their small casks into a hogsherd, and fill up the same with a strong pickie that will bear an egg, and the butter may be shapped to the West Indies or Europe, and kept perfectly swep. I have never found saltpetre of sugar of any benefit. Butter of my packing has opened as good in the West Indies so it was in Connecticut, I will remain that to keep batte in hee house, when it remains frozen, will supper, if the butter is to be confrezen, will suswer, if the butter is to be conunued in the same temperament; but it it is expected to warm womber after long taken from the ice house, it will not keep as long as it it had not been exposed to so cold a temper, G. Fox. Yours, respectfully, Hon. H. Ellsworth,

Commissioner of Patents.

work, and also copied the first three while the seton-needle, with the cord affixed to it, is plunged into the upper chapters, and promised our renders furchapters, and promised our renders fur-ther extracts, as opportunity might pre-out again towards its lower edge; the sent. Since that period we have examined space between the two openings should into its morts more minutely, and have be from four to eight inches. The scton formed so high an estimate of its character resto come to the conclusion, that we ter, as to come to the conclusion, that we could not confer a higher favour upon the majority of our renders than by copying largely from its columns. In each future number about two pages will be occupied with the highly-valuable and practical information which has been so cheaply and so neatly furnished to the be dipped in the following blistering ointpublic, by the enterprising publishers; ment: and we hope that our subscribers will receive more real value from this source alone than will compensate them for the price of twelve copies of the Cultivator.

CHAPTER IV. On Setoning.

several diseases incident to neat cattle speedily and powerfully; but the best of cannot be doubted. There are many all, where a considerable effect is intended localities in which, if farmers did not adopt this precaution, they would lose hellebore. This will very quickly cause great numbers of their young from the considerable swelling as well as disblack leg.

In some districts the hoose in calves is very prevalent and fatal: where this is the case, they should all be setoned when they are getting into condition, and before they are attacked by the disease. This plaint or prevent it altogether.

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

the course of this treatise, in p damma- Mas, and give in a quart of tolerably thick grueltory complaints; and it ac.s by exciting lessening its intensity. proceeds on the principle of diverting to medical maxim, that no two violent take their chance. inflammations, of different character, can ished.

By the discharge which a seton produces vessels of a neighbouring inflamed part.

twelve inches in length. Before inserting the seton, it should be dipped in oil of In a former number of this paper, we jurpentine. The seton being now pretook a favourable notice of the above pared, an assistant is to hold the articul. either end of the cord. Matter will begin to run the second day, and, after that, the cord should be drawn backwards and forwards two or three times every day. in order to irritate the parts, and by this means increase the discharge.

When setoning is had recourse to in inflammatory complaints, the cord should

Blistering Ointment .- Take yellow basilicon, one ounce; canthandes, in ponder, three drachms; spirit of turpentine, two fluid drachms.

This ointment will be found to not efficaciously and quickly in stimulating the parts to action, and hastening on the supparative process.

The root of the common dock forms a The utility of setoning for the cure of very good seton, and one that will act to be produced, is the root of the black charge.

CHAPTER V. Cold and Cough-Hoosc.

A simple cold, attended by slight cough will either lessen the violence of the com-Warm housing, a few mashes, removed. and the fellowing drink, will usually succeed :-

Recipe, No 1. - Cough and I cere Drink.
Setoning will be often prescribed, in Journalis, half a drachm; and nitre, three drachms.

There are few things, however, more a new and artificial inflammation in the dangerous, if neglected, than cough or neighborhood of the former one, and thus hoose; and there are few maladies that This plainly are so often neglected.

The farmer will go into the cow-house, another part a portion of the blood which or into the pasture, again and again, was determined to the original one, while and hear some of his cows coughing and also a new direction is given to a portion that perhaps hardly, or hollowly, or painof the nervous influence or power which fully; but, while they continue to chew was concentrated on it. This is in the cud, and do not waste in flesh, he accordance with the generally received thinks little about it, and suffers them to

exist in neighbouring parts at the same is scarcely ill at all; the cough remits time; and that in proportion to the inten-and returns, with or without his observation. Headds to it, perhaps, by improper] treatment. He exposes the beast unnecessarily to cold or wet; or he crowds it will likewise relieve the overloaded his cattle into stalles shumefully small compared with the number of the animals, Mode of inserting a Seton .- The and the air is hot and nauseous, and seton is commonly made of tow and charged with watery fluid thrown off from behind. If the muzzle is cool and moist, horse hair plaited together, or cord or the lungs and from the skin. The cough and the mouth not hot, and pulse sunk to coarse tape alone, or leather. It should increases, it becomes hourse, and harsh, nearly its natural standard, or rather

EVERY MAN HIS OWN CATTLE be tolerably thick, and eight, ten, or and painful; and that affection is estabhabed which oftener lays the foundation for consumption and death than any other malady to which these animals are exposed.

> That farmer is mattentive to his own interests who suffers a cough, and especially a hourse, feeble cough, to hang about his caltie longer than he can help. He should be warned in time, before his cows are getting off their feed, and becoming thin, and are half dry; for then it will generally be too late to seek for advice, or to have recourse to medical care : the disease has fastened upon a vital part, and the constitution is undermined.

Cough occasionally assumes an epidemic character-from sudden changes of the weather, chiefly and particularly in the spring and the fall of the year: it then spreads over a great part of the country, and is often particularly severe.

The symptons of epidemic cold or catarrh, or influenza, as it is sometimes called, are frequently serious. The beast is dull and heavy, with weeping at the eyes, and dry muzzle; the hair looks pen-feathered, or staring; the appetite fails; the secretion of milk is diminished; there is con-iderable heaving of the flanks; the pulse is from 60 to 70, and the bowels are generally costive or sapped.

Cattle that have been tenderly managed during the winter, and cows after calving, are very subject to it, especially if they have been poorly fed, or driven long distances, and exposed to a cold, piercing

It will be necessary to commence the treatment of this dis ase with bleeding. From four to six quarts of blood should be taken, and then a dose of physic administered. The following will be a good purgative medicine in such a case :-

Recepe, No. 2.—Parging Drink.—Take Epsom suits, one pound; powdered carawayseeds, halt an ounce. Dissolve in a quart of warm gruel, and g ve.

After that the drink No. 1 should be given morning and night, the drink No. 2 being repeated if the bowels should be costive.

It will be proper to house the beast, and especially at night; and a mash of scalded bran with a few cats in it, if there is no fever, should be allowed. It is necessary carefully to watch the animals that are labouring under this complaint; and, if the heaving should continue, or the muzzle again become or continue dry, and the breath hot, more blood should be taken away, and the purging drink repeated. At the close of the epidemic catarrh, the animal will sometimes be left weak and with little appetite. It should be well ascertained whether the fever has quite left the beast, because listlessness and disinclination to move, and loss of appetite, and slight staggering, may result as much from the continuence of fever as from the debility which it leaves

below it, and weak and low, the following drink may be ventured on; but No. 1 must be returned to if there is the slightest appearance or increase of cold or fever.

and give the infusion when nearly cold.

When the beast begins to recover, he should not be exposed in any bleak situation, or to much rough weather.

In some years this epidemic disease destroys a great many cattle. In the winter of 1830, and in the spring of 1831, thousands of young cattle perished in every part of the country. Some of them were carefully examined after death, and the membrane lining the windpipe was found to be inflamed, and the inflammation extending down to and involving all the small passages leading to the air-ceits of the lungs.

In a great many instances the windpipe was nearly filled, and the small passages of the lungs were absolutely choked by myrinds of little worms. These cattle myriads of little worms. had had their flanks particularly tucked up, and had stood and coughed with a violence that threatened every moment to burst some blood-vessel; and well they might cough thus violently, when the delicate and sensitive lining of the airtubes was incessantly irritated by the motion, if not by the bites, of these The origin of the worms no one has satisfactorily ascertained. There is no doubt that there are innumerable little eggs of various animalculæ, too small to be seen by the unassisted eye, always floating in the air, and only waiting for some proper situation or nest in order to be nursed into life. The proper nidus or nest of these animals is probably the mucus of the air-passages, and they are plentifully lodged upon it in the act of respiration.

I scarcely know what to advise in the treatment of these aggravated cases. The violent cough is an effort of nature to expel the parasites. Can we assist her in accomplishing that expulsion? There are certain medicines which afford us pondingly active. much relief when we have difficulty in expectorating a quantity of thick viscid, phlegm. After a dose or two of liquorice be indicated when the discharge from the or squills we find the cough considerably nose becomes purulent, or bloody, and loosened, or, in other words, the philegin, is a great deal more fluid, and easily got rid of. The same effect, although not to such an extent, is produced in cuttle, and a few, at least, of the worms are expelled. The following prescription may be tried with advantage :--

Recipe, No. 4.—Expectorant Drink.—Take liquorice root, two ounces; bruise, and hoil in a quart of water until the fluid is reduced to a pint; then gradually and carefully add—powdered squills, two drachms; powdered gum guaiacum, one drachm; tincture of balsam of Tolu, balf an ounce; honey two ounces. Give it morning and night.

There is another way in which the worms may with greater certainty be got rid of. There are some substances which | salt marsh, either entirely, or during the are immediately destructive to worms day.

when brought into contact with them. Some of these medicaments may be taken into the circulation of the animal with perfect safety to him, and probably death Recipe, No. 3.—Take ometic tartar, half a drachm. nitre, two diachms, powdered gentian readily enter into the circulation after root, one drachm; and powdered ginger, half a drachm. Pour upon them a pint of boiling ale, wards tainted with its small, which shows wards tainted with its smell, which shows that a portion of it has passed into the lungs, Therefore, when other means have failed, and the continuance of the violent cough renders it extremely probable that worms are in the air passages. the following prescription may be resorted

Before I quit the subject of hoose, I must repeat my caution against the use of which they were cut, escape the injurious spices and cordials for the cure of this disease. Hundreds of animals are yearly to the the tree forms, to which, in our climate, we are so this mode of treatment. As easily leelect a healthy shoot for a scion, with fruit lost by this mode of treatment. As easily I select a healthy shoot for a seion, with fruit may a fire be put out by pouring oil upon butls on it. (I have set them a foot long with may a fire be put out by pouring oil upon butls on it. (I have set them a foot long with may a fire be put out by pouring oil upon butls on it. (I have set them a foot long with it, as hoose, attended with fever (and it is one or too side shoots.)

the breath stinking, and the cough con-tinues to be violent, while the beast feeds badly, and the eyes begins to appearsunk badly, and the eyes begins to appears unk in the head, and he rapidly loses flesh. The best remedy here, so far as both the owner and the animal are concerned, is the pole-axe of the butcher; for in the early part of disease the meat is not at all injured, and may be honestly sold. If. however, it is wished that an attempt should be made to save the animal, the cough and fever drink (No. 1, p. 46) may be given daily; more attention should be paid to the warmth and comfort of the beast; and, if the weather is favourable, it should, after a while, be turned into a

FALL GRAFTING.

Hitherto, says the Maine Farmer, the spring has been considered the only time suitable for grafing, and the summer for budable for grating, and the summer for but-it got innoculating trees. An o'serving son of Neptune, residing in Beverly, Ms., (Capt. Josinh Leuvit) having ploughed the ocean to his heart's content, thought he would try plough-ing the land a little by way of change, and has lit upon a plan of fall grafting with good Success

The following is an extract from his communication, in Hovey's Magazine of Horticulture, upon the subject:—
"Your remarks in the November number of

the Magazine, for 1843, page 433, respecting my mode of procuring the specimens of fruit presented on several ocassions at the Hor-Recipe, No. 5.—Turpentine Drink for budding, but by gratting. I have practiced sweet spirat of nare, one cance. Mix and give in a pint of gruel.

This may be repeated every morning without the slightest danger; and even when we are a little afraid to give it longer by the mouth, it may be thrown up in the form of an injection.

A piet of time there is evertal occasional at the Horizonta, in the local content of several occasional and they were not procured by budding, but by gratting. I have practiced in getting good fruit from them. It is not three years since I began gratting with fruit woul in autumn, an interpretable procession at the Horizon, it was a practiced budding, but by gratting. I have practiced in getting good fruit from them. It is not three years since I began gratting with fruit woul in autumn, an interpretable practiced budding, but by gratting. I have practiced budding, but by gratting. I have practiced budding, but by gratting. by the mouth, it may be thrown up in the form of an injection. A pint of lime set have been more certain to mature their fault, then the trees from which the grafts were cut; this can only be accounted for by supposing the sap to do w slower in the graft when worms are present in the windpipe.

Before I quit the subject of hoose. I they feel courte early in the street courter, the grafts not blooming or set they feel courte early in the street.

so attended nine times out of ten), be subdued by the farrier's comfortable, or, in other words, highly stimulating, and almost intoxicating drink.

Should the case appear to be obstinate, the exhibition of hulf doses of physic every second or third day will often be useful, with the following drink mainer as the scion, reversel, and carefully direction, to a point, then one side in a 2'sping direction, to a point, then out from one to two inches long; then with a sharp knife I, hegan at the point and cut just within the bark, up about half an inch above the commencement of the incision on the opposite, side; then select a thrilly, upright shoot, on a bleatthy tree, cutting well back, making a short stump; cut this stump in the same manner as the scion, reversel, and carefully second or third day will often be use'd, with the following drink morning and night, on each of the intermediate days:

Reipe, No. 6.—Take digitalis, one scruple; clay; or, I prefer to mix equal parts of bees, with bass or Russia matting, and cover with the scruple. A set on in the dewlap should never be omitted; and if the disease seems to be degenerating into inflammation of the lungs, the treatment must be correspondingly active.

The termination of hoose that is most. The termination of hoose that is most If the grafts are carried any distance before to be feared is consumption. That will uniting to the stoc., it will be very important, be indicated when the discharge from the and the cids, as soon as possible, dipped in wax or something adhesive.

Very respectfully, your obedient servant,

Josiah Leavitt, 2J.

Beverly, March 5, 1744.

The Bite of a Rattlesnake.—The most simpleand convenient remedy, says'a correspondent of the Macon Messenger, I over heard of, dent of the Macon Messenger, I over heard of, was alum. A pieco the size of a hickory nutrissolved in water and drank or chewed and swallowed, is sufficient. I have a good suthorty for saying it has been tried many times on men and dogs, and that they have invariably recovered. I know of some planters whose hands are exposed to be bitten by ratilesnakes, who always have them provided with it, in their pockets, and they have several times founding. pockets, and they have several times found use

HEMP CUL!URE.

[Concluded from the Third Page]

eastern men I invite you west, to establish your ingenuity and enterprise in machinery, for the manufacture of labors. Your later for the manufacture of Libras. est, farmers, your prosperity, and your duty as patients, and as an example to the rising generation, dem in I your prompt and undeviating attention to this important subject : in so doing, it acquires all, and will also be a blow struck at the foot of the throne of that Autocat, which may produce consults and the suffering under the most degraded bondage of slavery. The question no doubt will artse in your mad. How and this to be accomplished? I will answer briefly. Let every tarmer take four access of his best fand, sow a down in hemp, lonow my material made before you, to the letter. It was an access that the government of the material that the government requires and that can be effected and produced by any first constructions. That the hemp may be a first the first that the mp may be to the constructions. you have not water convenient, bodd plans. And that can be effected and produced by vats, 25 feet by 14 and 21 deep, pump the park our rotting, schutcheing, hatheling, water into them when the heap is lat i in and of a proper length. That the hemp may they require but a sin it quantity of water, be inspected and selected without prejudice to two men can pump sufficient water in a day, eather party, there will be hone-t, competent with men can pump sufficient water in a day. and the same water, with a small portion of men from the est, with are fully acquirited additional fresh added to it, it necessary, will with the qualities of Russia Hemp, and more answer for two or three rottings. This size particularly that article the government revat will answer for a crop of 25 or 33 acres, quaes, whose hands it is to pass through before which is more than one farmer should undertake the first year. If an acres of good ordinary benny, ju herously rough, properly cleaned, scutcheld, hatcheled, and well prepared, will yield to the farmers a clear gain of all expense, \$150 or more. What can be a greater encouragement in an agricultural pursuit than this? In add tion to this, a steady market, with the assurance, that if you produce a pri ne article, the highest cash price aure a prime article, the highest cash price is ready for you according to its quality, derivered at the var of spoats of Agencies. Those possins with ng to see me, can address me at St. Louis post pind, (no letters mill be taken out of the office, unless post pand) I will either wait upon them personally, or answer them from my State that leets a desire that posters in the caste mile. to embark in this ente price. I am enable to inform those that have never water-iette h that there is mere I door at eading this opera-tion than they imagine. But do is the dis-contaged; experience and time will overcome it, in a very great degree. With persever-ance and industrious attention, not reof g on the care and attenuou of your negones and laborers, but by your own close attention, you will see great advantages to be garried in the prosecution of this business. I can with coafidence and in truth say, that with practical experience and perseverance, they will be found worth more than all the theory and negroes in existence, in the saving of labor, expense, and the quality of the article peduced. Taey will overcome difficulties and objections which first present themselves to onjections which first present is ally become obsticles of minor consideration. Therefore be not deterred when tary are met. But persevere, and acquaint yourselves of the most practical and comment manner to exercise in the water-rotting process. My plans are laid before you; practice them, and you will improve on them; practice makes perfect, and opens to you advantages that can be applied to great improvements and economy. But throw aside all ideas of humbaggery, such as steam chemical process.

Hemp for the Navy, must not be less then four feet and a half in length, a clear stap c of proper and natural strength, preserved by judicious treatment, and of a hight color; dark hemp will not be received for that purpose. It will be received and appropriated for commercial enterpise, at a reduced price.

It is the desire, that the farmer will practice the mode of seurcheling to relieve the hemp of the herds, in the place of applying it so dien to the break. It straightens and the staple, and produces much less tow, when applied to the hatchel. A'so that they should become familiar with harchelling they should become familiar with hardfelling of hemp generally. It adds greath to the character of the hemp, cast and abroad. And to those that wish to purchase hitches they can be obtained at St. Louis for S5

them, provide they depends on this). If the teeth are not properly set, it will still and derange the staple, and produce much tow All hemp delivered unhatcheled, will be received and paid for according to quanty. has been the practice to use great decoption in the preparation of this article, by secreting the drawings and sheaves in the centre of the hands. But it will be useless to attempt tins, as they are sure of being detected.

There are four classes of Russia Hemp :

I conclude this subject with a conviction that this appeal will not be in vain, and that in three years the loreign article will be entirely excluded from our ports, and heavy exports made to Europe.

An I I will impress upon your minds the and I will impress upon your limits the importance of adhering to these instructions; and when your hemp is ready for market, by calling upon Messrs, W. W. Thomson & Co., of St. Louis, or the subscriber, you can obt am any information in regard to the final disposition.

DAVID MYERLE. St. Louis, Missouri-

BUTTER-MAKING.

The following communication was addressed to Frederick J. Betts, Esq., Pres-dent of the Orange County Agricultural Society, and pottely tendered us for publica-tion, and as Mr. McWilliams' dairy empsys a high reputation, we do so with great pleasure, notwitistanding other articles on this subject in we already appeared in both our last and present volumes. Mr. McW., we see, differs lightly in his process of malang butter from those before decreased, by adding cold water to the milk when poned into the churn, and e mmeneng churning it at a lower temperature than usual. This must certainly increase the labor of bunging the butter, and we market, should like to know of him, whither it is i compensated by superior quality, or an additional quantity. The rather milk is the soor ex butter comes, and we have often thought in but r-dary districts, more affect on should be paid to the quality of the milk than the quantity, for it is something of a consideration ! to the dany man to have his butter come with as little labor as possible, and if as good a quality and as much in quantity can be had it teen minutes' courning as in two hours, it will amount in the aggregate to a great saving of labor. We wish, succeedy, that a series of experiments might be made between the better and power qualities of milk, for certain it is, if a convivinch gives 10 to 12 quarts per day makes as many promise of factor as another that gives 10 to 18 quarts, both consuming the same quantity of food, massimely as the milk of the former would churn to butter sooner than that of the latter, she should be prefered as a butter-cow, unless the extra quantity of butter milk from the latter made up the difference in value of the labor in churning and miking.

Scatchtown Jan. 3rd, 1914.

to \$6, or any ordinary blacksmith can make tion I am in the possession of and hoping to them, provided they understand setting it e get more information from the statements of actual the greatly depends on this.) If the several of our best butter makers which you several of our best butter makers which you propose publishing. My farm consists of 103½ acres of land, 85 of which is under cultivation. In my darry I keep from eighteen to twenty cows. The farm is elevated land suitable for grazing; the north end is the principal incadow. The buildings are placed principal meadow. The buildings are placed near the control the firm, and from these the bird gradually descends to the south. The southern pair is watered with springs, the middle with wells and springs. The north with springs and a never-failing stream of the total control to the south. of water.

> Our practice is not to churn the milk until it becomes there or hoppered, the mak and cream is then that ned together. The temperature of the mak is about 50 degrees. In perature of the mak is about 50 degrees. In warm weather about a quart of cold water is put in each painbefore the nulls is stratued, so as to keep it sweet as long as possible. The cellar flear is back. This in warm wentier is daily cleansed with cold water. A drain from the tedar carries off the water that applied. The chain is filled about half full with nulls, with the addition of two pail of cold water beforestarting the chain. In cold was the table and water the same amounts of warm water is weather the same quantity of warm water is applied. When the claim is finished, which usually occupies about two hours of time, there are then two more pails of cold water applied to raise the butter and cool it. apping to raise incounter and cool it. The butter is then taker, out of the churn and put in a large tray, this is immediately filled with cold water and the butter carefully washed; after which the water is thrown off. The butter now undergoes the process of salta g, it is then placed in a cool situation where it stands about an hour, and worked careful-This fine-hed it is placed in the ly over. same stuation as he ore, where it tands three or four hours, and is agult wo ked over; again replaced for five or six hours, when it is worked over for the third time. It is now replaced, where it stands till the next mernog and worked over the fourth time. A small quantity of intre is then put in the butter, Thus fin sned it is a treed in fickins holding about 85 ths. Previous to packing, the ficking is scalled with hot water, rinsed and cooled with cold water, then rubbed all around with with cons water, then rubbed all around with fine salt; this prevents the butter from adher-ing to the sales of the fi km. When the fi km is full a linen c'oth is placed over the top of the hatter, on this cloth a covering of salt is out one men deep, and cold water enough added to it to form a home. It then stands till it is to be sent to make, when the cloch and salt are removed, the fiskin turned down, the top of the butter in the key washed with cold water and the pickle drained off. The firkm is now nearly headed up, and sent to

George S. Mc Williams. ---

From the Southern Planter. RECIPES.

C. T. Botts, Esq. - Dear Sir, - Belie vmg it to be a conceded point that the most simple , emedies are generally the most efficacons, in that short, practical recipes on the curative art will add to the value of the Planter, (of which I am a great admirer.) and thathy this means a fund of useful information will be disseminated amongst your readers. which otherwise might remain unknown , I real concesse magneremain unknown, I well disposed to contribute something to your pages in this way. Wishing to further your "ambitious project of making the Southern Planter the most popular agricultural work in the Umon."

Pdes - Having suffered as much from this rates—trying sources as man from the decase as a syman living. I feel disposed to communicate through your pages the remedy which give one reliet. Take doutonegallon of Jamestow deaves, (Strammium) building the treatilets of the med, strain the Exportant the latest searches at the computer of

obstinate cases when there is a continued und painful protuberance of the intestine, it will be necessary to spread the continent on a soft rag and keep it in place by a T bandage. When the protruded part can be easily bandage. returned to its proper position, the continent should be applied previous to this being done, as it facilitates the operation and acts better. The patient should live on the lightest diet, keep as quiet as possible, and if necessary, take an occasional purge of the inidest kind. Whenever there are symptoms of a return of the complaint, apply the omtinent and it will check its farther progress. I have no hesitation in stating, and that from experience, that this remedy has no superior, and it needs only. to be generally known to be duly appreciated. This continent is also valuable for painful fores, wounds, &c., — or rheumatism, affecting the joints, rub it in well before the fire, and cover with flannel. For scalds and burns it will relieve the pain sooner than any thing that I have ever seen applied. In all cases above mentioned I use the outment plentefully. I generally prepare the outment in my yard, us the stramonium has a very offensive melt, and the vessel in which it is made, if used for cooking purposes, should be thoroughly cleaned by burning, to avoid any deleterious effects that might otherwise ensue-

Withlow.—The application of a plaster made of soft soap and lime, is a sovereign tenedy, relieving the pain in a few moments. I have tested this prescription to my satisfaction, and Dr. Ewell observes, that "perhaps this remedy might be useful in cases of the

Corns -One thickness of flannel confined over the corn, anomical twice a day with spirits of turpe time, will effect a cure-

Fistula on a Horse-Take a large double han flul or mo.e of wild ratsbane, bod it in chamber ley, and foment the tumor two or three times a day, as hot as the horse can bear without giving pain. If tirrely applied, it will soon effect a cure, and out of many cases, I have yet to winness its failure in the first instance. This application will also cure the poll evil.

Distemper — Having lost some valuable horses with the distemper, (strangles) I should like to see some cliicant remedy for this disease in some future number of the Planter. I will observe that in a recent case I was advised to infine red pepper in a pint of melted lard, and drench: I d.d so, and the issue was unusually favorable; but I am not yet prepared to say whether this favorable result was owing to the action of the medicine, or that the medicine, or that the medicine, or that the medicine is a superfection of the medicine. that it was a mild type of the disease.

I remain yours very respectfully.

W. R. H.

Charlotte, Va., June 1, 1844.

From the Boston Culticator.

Things which I like to see.

Messrs. Editors,-I like to see farmers located in a fertile region and salubrious climate, surrounded with trees and flowers, earth's noblest garniture, and watered by mighty streams and bubbling rills. Notwithstanding the beauty of such regions, even when nature runs wild, yet I like to see her aided by art; and, he who possesses the requisite taste and other qualifica-

tions, may dwell in an earthly paradise at least.

I linger with delight to see the farmer's home of peace, plenty and beauty, though I have no other participation in it. I look with pleasure upon his spacious mainton, shaded by gigantic clim trees, or his neat little cottage, half hidden by trees and shrubs proportioned to its size. I contrees and strains proportioned to its size. I con-template with pleasure his spacious barns and convenient out buildings, all in complete repair, his nearly faced stone-walls by the roadside, and their rows of thriving trees; his sincoth, fertile and clean fields of grass, grain, and vegetables : his rich swelling pasture-grounds, stocked with amonthiumbed, sleek, rapidly thriving young an astone a maintals, luxuriating on the bosom, or repasing 'mought lum h an the lap of nature; the noble ox, the lusture of lulagraphy of whose eye was typical of beauty in the lovely of Steinefelder.

Juno; the well fed dams with their distended udders, grazing teisurely on the hill-side, or reporing quietly in the shade, the gentle lambs, emblems of announce and peace, skepping or anb-bling or with soft busions pressing "the herb as soft." These are delights which the good tarmer can possess and enjoy.

"When Bores harls his withering blast," the flocks of such a former heed him not, but, repairing to wed stored barns live out his wither-

ing reign in quicinoss and plemy.

Again I like to see the farmer's dwelling surrounded with the choicest trans and flowers; his garden tast, faily arranged, and neatly dressed, and bearing its appropriate trutts and flowers, his thrif y orchard, ciad in the gay active of spring, or bending to the carth beneath the ripened fruits ; of autumn. I like to see the farmer's granary wed stored with gran of all kinds, his center, with meats, and vegetables, and frans for winter, use; his pantry, with butter, cheese, and all the other palatables which the good tatmer always, provides. I like to see his norary well stored, with books, and himself and household possessed, of a taste for reading, and improving their minds, but the farmer's invary is incompleted until it is provided with at least one good agricultural and family newspaper, such as the Boston Culticator. But I like, above all, to see a well regulated tamily; children sent to school, regularly and constantly, instructed at home in politeness, and in habits of sobriety, industry, punctuality, frugality, cleaniness, temperance mall things, benevolence ond the whole train of christan vittees. I like, Oh! I admire, too, to see children love their parents and one another, honour and obey their parents and teachers: but, more than ali, to love

and honour their God.

I like to see a firmer have " a place for every thing and every thing in its place;" his hairows, the ploughs and cha ns, all whole, morder, and in their places. I like to see a farm ir improving his farm by draining and rectatining mealows and waste lands, and making two spears of grass grow where only one grew before. He should be

improving his breeds of cattle, sheep, swine, &c. One thing more, Messrs. Editors: it gives me great pleasure to see farmers protect the birds; on his premis 8; even the crows, for they do more good than haim. The birds, certainly, are one of nature's most splendid organisms, and the farmers' invaluable friends. Who knows how often they have protected his crop of grain and traits from the ravages of destructive insects? and who knows how much oftener they would d ave protected his crops, had he protected them? AGRICULA.

Salem, July, 1844.

How Discoveries have been made. Many of the most important discoveries in the field of science have been the result of accident. Two little boys of a speciacle maker in Holland, while their farther was at dinner, charced to look at a distant steeple through two eye-glasses placed one before another. They found the steeple brought much cearer the shop window. They told their farther on his return, and the ricenin tance led to the a course of experiments which ended in the a course of experiments when ended in the telescope. Some shipwrecked surfors once collected some sea-weeds on the sand, and made a file to wirm their shivering fingers and cook their scanty meal. When the fire went out, they found that the alkali of the sea-weed had combined with the sand, and formed glass—the basis of all our discoveries in astronomy, and absolutely necessary to our convenent. In the days whenevery astrologer enjoyment. In the days whenevery astrologer and every the hist wasseeking after the philosopher's stone, some monks carelessly making up their maternis, by accident invented gun-powder, which has done so much to dumnish the barbarines of war. Sir Isaac Newton's most important discoveries, concerning light and grays attor, were the result of accident. His theory and experiments on light were suggested by the soap hubbles of a child, and on gravitation by the full of an apple as he sat in the orchard, and a was hastny scratching on on a stone a memorandum of some articles frought lum by a wash-woman, that the idea of lubography first presented uself to the mind

VALUABLE TABLES.

Mr. Elsworth, the Commissioner of Patents, has been collecting Agricultural Statistice, which are valuable and interesting.

CHARACTERISTICS OF STATES.

Ohio raised most wheat, viz :- 13,786,705 bushels.

New York the most barley—1,802,982 do. New York the most onts—24,907,553 do. Penn, the most rye—9,429,763 do. Pennsylvania the most buckwheat-2,403,503

bushels. Tennessee the most Indian corn-67.838.477

bushels

New York the most potatoes-26,553,612. New York also the most hay-4,295,537 tons. Virginia the most flax and hemp-31,728 lbs. Kentucky the most tobac 0-52,322,543 lbs. Georgia the most cotton—185,758.128 lbs:

Sou h Carolina the most rice—66.892 807 lbs.
Connecticut the most silk—140,971 lbs.
L-nisiana the most sugar—37, 173,590 lbs.
North Carolina the most wine—17,246 gal-

The following statements shows the quantity of each kind of grain produced in the United States in the year of 1839 :-

Wheat,	. 84,823,272
Barley,	
Oats,	
Rye,	
Bookwheat,	
Indian Corn,	

Total,.....377,581,875

The number of bushels of Potatoes raised the same year was 103,293,060.

It the Increase of grain in five year has been 22 per cent, the quantity in 1844 should be 756,906,607 bushels; and of paratoes 153,372,-605 bushels. Twenty-live per cent is a low estimate in the increase.

Mildew on Grapes.—One of the great obstacles in our climate, in cultivating the Sweetwater, and some other varieties of foreign grapes, is the mildew. As the season is now approching when the young fruit will begin to set, we would recommend the following remedy to these who have been troubled with this difficulty in past years. The recipe was published in the New England Farmer about twelve years since, and as we have frequent inquiries as to what course to pursue in such cases, we republish it for the benefit of all interested in it. We know of no better remedy :-

"Take a pint and a half of sulphur and alump of the best unslacked lime of the size of the fist -in good sized list, we suppose)-"put these in a vessel of about seven gallons' measurement; let the sulphur be thrown in first, and the lime over it; then pour in a pail of bailing water, stir. it well, and let it stand half an hour; then fill the versel, and telt same and after stirring well, allow the whole to settle. After it has become settled, dip out the clear liquor into a barrel, and till the barrel with cold water, and it is fit for use. You next proceed with a syringe, holding about a pint and a half, and throw the liquid with it on the vines in every direction, so as completely to cover foliage, fruit, and wood. This should be particularly done when the fruit is just forming, and about one-third the size of a pea, and may be continued twice or three a week, for two or three weeks. The whole process for 260 grape vines, need not exceed half an hour."—New England Farmer.

Bad Air in Wells .- Never go down Isaa Air in Preus.—Inver go town into a well which has been at any time out of use; or it be deep, without trying the air in it. I his may be done by lowering a lighted candle—if it burn, there is no danger; but if it goes out, the air is bad, and death would be the consequence of venturing into it. It is said that the air may be specially corrected by putting into the wall say from half a bushel of a hushel of the well say from half a bushel to a bushel of quicklime, which will absorb the carbonic acid gas—the agent abke deleterious to comfort and respitation.

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From the New York Mechanic and Parmer-EXTRACT OF A LETTER FROM

ALEXANDER WALSH, Esq.

Of all civil occupations, that of agriculmost indisponsable, the best pres ever of heatin, of morality, of virtue, and of religion: It was the occupation of our first parent, and has been that of a majority of his descendants in all past ages, and must necessarily so continue to time's end. How largely are we interested in its improvement and success! It is, however, a painful truth, that its progress in our c unity is far from being exhibitating. Habits, venerated only for aniquity, are obstinately adhered to, to the exclusion of "book-farming," and this without any investigation into relative merits; numerous are the deformities growing ent of this error; elevenly managed farms not arising from idleness, for idleness is not the besetting six of the ullers of our soil; tarms dispropertionate to the means of proper cultivation; fields rendered unproductive by a succes sien of wasing craps, and then left to be result.

siding of its waters, the agriculturistalmost withestated by the slow operation of nature. To
these might be added many other equally obvious.

the grain has, by reason of its quality and defects, too numerous for present detail.

It is passing strange, that while the aid of the prees is consulted in support of every design, the prees is consulted in support of every design, produce results proportionally similar to those of even those of minor importance, or of doubtful the Nile. I have seen no calculation made with policy, agriculture, the most important of all, a view to ascertain the utmost amount of money, seems alone to reject its influence; this unhapor of labor as the convolent of mone, which a

as to be within the unaided observation of every the most expensive of all modes in use; yet, t tiller of the soil, yet even these otion require a beneve that, on a minute calculation, it would tiller of the soil, yet ever these often require a penere tant on a minute enemation, it was a friendly monitor to keep them present to the appear that no equal extent of the tarm yields so mind; o hers there are dependent on scientific large, or, all matters considered, returns so research, and seldom to be derivered except by a ge, a per centage on the capital employed, the studious reader. The press, in these cases, 1, 1, 1, if true goes far to prove, that small terms, is the best monitor, and the truest instructor. In truth, the few shillings annually charge for an agricultural jurn d, it properly attend d to, are the most productive on lay of the farner

The proper selection of seed gram is an important consideration. The best if possible should alone be used. Gram is hable to degenerate by long succession of unchanged seed, the of continual profuenceness. Ignorance than occasional change of seed for that of other for project alone would permit only part of the farmers, will often be found beauficial, institut to the fallow. Compost is the common that even that received in exchange, will, al-productor elevery farm, and is not the least though of an inferior quality, frequently yield a valuable resuscitator of exhausted soils; it is requestly if the latter has a not tell any symptom a variable regularizator of exhausted soils; it is especially if the latter has a not tell any symptom of degeneracy. The pointor is a very strange that this variable machine the granting of agreement is a very strange that this variable machine the performance of the latter has a very strange that this variable machine the strange of the farm yard to be accorded by man and beast, continued succession of the same should be to do to do. a continued succession of the same s.o.k in the same soil : were it not for the friendly agency of nature, which annually scatte sitts sied on the ground, and thus gives both to a new gen eration, this necessary article of food might be entirely lost. This effort of unture never inils in mild climates, but should not be relied on where mid climates, but should not be relied on where the rigorous cold of our northern winter seldom the rigorous cold of our northern winter seldom interest and hoppiness, rather than your own fails to destroy delicate saids when exposed to combertor convenence. Take especial pains to its action. An exchange of seed potatoes with make home the most pleasant place on earth to them. It may, perhaps, sometimes be a tax menaced evil, but the true medie to imitate upon your ingerently to do so, but you will repay nature; the farmer should every two or three, a blessing from it which will more than repay years preserve a small committee of the most. You. This will effectually keep them from bad years preserve a small quantity of the seed, you This will effectually keep them from bad which is contained in the balls growing on the company. The memory of home sweet home, green tops or stalks of the pointiers, and sow the same in a bed in his garden, the pointies, and prayers, have been the tails when they appear over ground, should be transplanted, and placed at the usual proper distance. The produce of the first year's growth, generally of a size-too small for use, may be reserved for the mirrough a rough a rough the next year's planning. This is deemed an limit the extent of a mother's influence?

a plentiful supply of food to the young animal; the tull grown beast will eat less and latten cooner, than were he neglected while young An early attention to abundant feeding, with improve the humblest stock of catile, while the best b ced, it neglected, or not sufficiently fed ture should be regarded as foremist: it is the while young, will degenerate and become in their maturity unsightly and profitless.

Irright on of land is a practice of gr at antiqu thestory does not, I believe, any where ce it as a modern invention. Virgil, the nouce it as a modern invention. son of an Italian farmer, who wrote before the thristam era, states that it was practised in his country. Irr gation, when not attended with two much expense, is a valuable fertilizer of the soil. All kinds of vegetation are benefitted his country. by a skittul application of it. Medows subjected to its action, will yield double the usual quantity of grass, and may be moved twice in a year. Grass thus nurtured will not, although artificial, wear out, but may, by this treatment, be pre erved permanently.

The overflow of the river Nile is a display of irrigation on a magnificent scale; on the subsiding of its waters, the agriculturistalmost with-To out an effort, raises an abundance cope. Long tion grain has, by reason of its quality abundance, be ome proverbial Land adjoining rivers, or streams of water, where the overflows are periodical or occasional and not too frequent. seems alone to reject its influence; this unity projudice is gradually yielding to better tarmer may safely expend in the irrigation of his judgment, and we may hope the day is not distant when the farmer will be no more without his agricultural imagazine, than he would be The watering of the kitchen garden is deemed. The watering of the kitchen garden is deemed. by the horticulturists indispensable; the labor There are certain primary principles so evident is general y performed by hand and watering put wed cultivated, and arighted, even at considerable expense, are more productive of profit, than large taims without the means of a through columnian, and depending on casual falls of rain for the necessary moisture.

All lands at all worthy of cultivation, contain the means of retaining them perpetually in a and thus rendered almost useless.

FOR MOTHERS.

Draw your children to you by real kindness: let them see that you study their lest interest and happiness, rather than your own combined convenies and Take especial pains to This will effectually keep them from bad any. The memory of home sweet home, and buffet in after years agains, the winds of adversity and the tempts one which have as-ale them through a long life, and who shall

JAUFFRET'S MODE OF MANUFACTURING MANURE.

We promised, a week or two ago, to give Jauffret's mode of manufacturing manure from straw.weeds, and other vegetable matters. Hois a Franchman, and has taken out a patent for his mode in France and England, but that cannot hinder the practicing his mode in this country, provided he has not also obtained a patent from the U. States. The following is a condensed statement of his mode:—

The first thing to be done, is to prepare a quantity of what he calls saturated water, which is done by having a vat made of any convenient size, which is half tilted with water, and into which is thrown weede, and almost any kind of vegetable matter that will ferment readily, so as to till it, with the water, three fourths full. He then adds, to a vat 12 feet long, six feet wide, and six teet deep, ten pounds of quick line, and fice nunces of salammoniac. Then you may add sink water, refuse from the kitchen, dead animals and such like matters. Sur it up occasionly, and if it becomes too effensive in odor, add more unalacked inne occasionally.

The next step is to have another vat, smaller than the other, into which sufficient of the above made fiquor is to be put to dissolve, or mix with the following materials, which last prepared water he calls Lessine:-

Take 200 lbs. of fecal matter and urine (from vaults or privies)
50 lbs. chimney soot,

400 lbs. gypsum, (plaster of Paris,) 60 lbs. unslacked lime,

20 ibs. unleached wood ashes,

I lb. sca salt,

10 ounces of salmetre.

50 lbs of what he calls Learen of manure.

Mix all these with the saturating water till it makes a thick pointing. I be leaven of manure is the drainings of a former operation, if there has been one. The above ingredients should be mixed as follows. Sur the first vat up till it is thick, and then pour aportion of it into the lessive vat, in a this throw the lime, then the soot, then the ashes, then the fecal matters, the salt, and saltpetic. The plaster of l'aris is to be thrown in title by little, stirring the mixture to prevent calling. When the whole is well in xed, stir in the leaven

When the above substances cannot be obtained but at too great expense, Jauffiet substitutes other though, for meaning, - ust-ad of fecal matter and name, take 281 lbs. of horse, cow, or p g duag. for the gypson, 100 lbs, of baked or burntenth or clay y loam, for the soot, 160 lbs, sheep manure on labe same waght of rich mad: for the unleached ashes, 50 lbs of leached ashes or 2 los, of potash, it reason, 100 lbs of s a water. If you come short of ' Lossiv." make it up with the saturating water, always using the most impure and putrid that you can obtain.

Having got the above materials ready, clear away a spot of ground and beat it hard so that water will not sook in readily, and make fittle pite around the plant into which the liquor which drains from the heap may run. Then take your straw, weeds &c., or whatever you wish to converi into manure, and put them into the vat of lessive, wet and pack them into a heap, treading them down so as to make them compact. At every layer, of a foot, pour on a quantity of the lessive and trend it in so that the whole shall be well in aed together. The heap may be six or seven feet high, and when all is packed spread the bottom of the lessive vat on the top so as to slime it all over, beating and pressing all about so as to make it as snig and compact as possible. At the end of 43 hours a fermentation com-mences. On the third day the top of the heap is to be opened six inches, and the sediment the next year's planting. This is deemed an infallible remedy against degeneracy, and gives, the best security for good and wholesome crops of are complete. A writer in the London another drenching is given with the lessive, and the best security for good and wholesome crops of are complete. A writer in the London another drenching is given with the lessive, and the best security for good and wholesome crops of are complete. On the seventh of the old mode of allowing cicumbers to run the particle of the ground. He trains them to three feet deep, and another drenching given and about the minth day give it. object of the greatest solicitude to every farmer. trelines, and finds that he has not half the trouble again covered up. About the mith day give it He does not always know how much is directly, with them that is required by the old plan, and another drenching through holes somewhat in his power, in regard to this object. This set that the plants continue much longer in bearing, deeper. In 12 or 15 days the manure will be lit to epread. It will at once he perceived that it will not do to work upon this in freezing weather. Our resides will perceive that the principal defliculty in manufactuing manufe in this way depends on mixing matters in a putrifying and liquid state, to those which are dry and mert, so as to bring about fermentation among the whole and reduce them to a soluble state, or, as we belore expressed it, using a rotten liquor to assist in the decomposition of vegetable matters.

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 foundar with the writings of M. Chabert, and his exalted character as a scholar, any commendation on our part, would of course appear superfluous :-

M. Chabert, the director of the veterinary school, Alford, Lugland, had a number of cows which yielded twelve gallons of mix every day.

1. his publication on the subject, he observes that cows fed in the winter on dry substances that cows led in the winter on any substantes give less mith than those which are kept on a green diet, and also that their milk lores much of its quality. He published the toflowing iccipe, by the use of which his cows afforded him an equal quantity and quality of milk during the winterns 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 hit thus to ferment during a whole week, and when the ymous taste has pervaded the whole mixture, it is then given to the cows, who cat it greedity. --

Treatment of Sick Animals.-There are many erroncous notions prevalent in the community, respecting injured or diseased domeetic animals, and such unnatural or injurious precuers as a consequence of the incorrect views, that no apolegy is necessity for an attempt to subserve the cause and interest of these useful creatures, when if they had tongues to speak, would teil sad tales of the wrongs to which they have been, and still ere, too often subject.

We do not propose to give an essay on the particular cases that require attention-our object is rather, very briefly to ask the owners of domestic annuals to be guided by a few correct principles, which are applicable to nearly ail cases, and which will at least prevent us from doing harm, and be the means, probably, of doing

much good.

In the first place, then, we would insist that when an animal is well he never requires any medicine; and when he is sick, we would not stay against his being dosed with articles that are said to be "good" for a particular disease, we shout any reference to its violence or the symp toms, as common sense would dictate, that remedies the most opposite in their character and effects, may be equally advantageous in different periods of the case.

Always distrust a man and the remedy, when your friend deciares that an article is always good, or a certain cure for a disease, without Georgians call them. I did so by making or reference to its symptoms—prescribing for the cutting an incision in her right side, and took name of the disease itself—the is the very from her as large a nade of large transfer.

ersence of quackery, in man or beast.

A large portion of the diseases of animals closely resemble those of the human family, and require a treatment conducted upon the same general principles-with some variations and some peculiarities, it is true: but none of these ourrageous departures from common sense, which are too frequen ly witnessed

A horse with pleurisy, or inflammation in the lungs, or apoplexy, requires a widely differrint treatment from one with colic or worms. There is no more mystery about the disease o. n horse or an ax than about these of a man, and a "violation of natural laws is as productive of

pain and injury in one as in the other.

There is too great propersity, or rywhere, to resort to active treatment in all case—a fe-ling that is encouraged by the ignorant or designing for selfath purposes. An advisor in seckness is resort to active treatment in all case—a fe-ling that is encouraged by the ignorant or designing a lure of sowato bleed. Although, so far as we for selfish purposes. An advisor in sickness is often most useful, and shows most skill, where on strict physiological principles. Excessive

he only tells us what is to be avoided, and waits for indications for more active measure. - doing little more than preventing ignorant but well meaning persons from interfering with the salutary and useful changes that may be going on.

Remember that there is a restorative power is nature, to which it is always better to trust, than to direct active remedia without knowing for what particular purpose they are given.

There is never occasion for the administration of the diagniting combinations which the poor animal is made to swallow, form the mere whim of an ignerant horse or cow doctor. Many a fine beast has been lost by his owner trusting

to such prescriptions,
When your animal has fe er, nature would dictate that all sumulating articles of diet or medic nes should be avoided.—Bleeding may be necessary to reduce the force of the circulation -purging, to remove irritating substances from the bowels-moist, light costly digested food, that his weakened digestion may not be oppressed —cool drinks, to allay his thirst, and to some extent, compensate for dominished secretions rest and quet, to prevent under exerciment in his syst m, and so on through the whole caralo gure of diseases-but nothing to be done with out a reason. Carry out this principle and you will, probably, do much good—hardly great harm—go on any other, and your measures are more likely to be productive of injury than bene But, as we have before enid our ofject now is not to speak of diseases in delail-it is rather to encourage our agricultural friends to think before they act; to have a reason that will bear examination for every step in the management of a sick or injured animal: to remember they have a powerful assistant in nature (being fairly used) and that specifics, as they are called, are much fewer and less to be trusted, than their proprietors would have us believe. We might, proprietors would have us believe. indeed almost sum up what we would desire, in o le general direction, of five words :- TRI YOLL BRUTES LIKE MEN .- l'ai mer's Cabinet.

Extract from Col. Bonner.

CURE FOR BARREN SOWS.

"While writing, I thought it not muses to give you the favourable results of an experiment of mine upon a fine Berksbire sow, purchased last full of Mr. C. N. Bement, near your city. She was over two years old when I bought her, and although she ran regularly with his boars she had never produced a litter of pigs, or had even been in pig. to his knowledge. With a full knowledge of these facts, I p rehased her. On the first of November last, I found her in season for the boar, and turned fier in the pen to one of mine ; he served her repeatedly for two days. In bouttwenty days I found her again in season for the boar, and was persuaded by many friends that she was to fat too breed. I put her again to the boar, and turned her out in the woods without any food, to reduce her. She commued to reduce daily, and got quite poor, but was in season for the boar every eighteen to twenty one days, and was as regularly served by different boars, until about the 10th of June. I then concluded to half-spay her; or, in other words, to take out one of her ovaries, or prides, as we Georgians call them. I did so by making or latter part of July, thereafter, I discovered her again in heat for the boar, and turned her into a pen to my imported boar, Ontario, and I am pleased to tell, that she not only proved in pig, but that on the 13th metant, she produced me six fine pigs—five soive, and one bear pig. I would further remark, that she had on previous occasions been served by Untario, and that her condition as to flesh, &c., was about the same it had been for several months, and the treatment precisely the same. It is the first and only instance of the kind I ever heard of, and thinking a possible that some of your many readers might have a sow similarly constituted, concluded to give you the chove fact."

We know of several instances where great

arder, or frequently repeated sexual connection, is usually a hundrance to impregnation, and the removal of an overy, by lessening the first, had a direct tendency to produce the result desired. It is more than possible that the reduction of flesh might have been also useful, as the pressure of far usually closes the fattopian twees and effectually prevents improgramm.—Albany Cultiralos.

BLACKING.

Wo recevied a letter from a friend in Kentucky enclosing us a list of enberibers, for which he says all he asks is, that we will publish in the Planter's good recipe for making blacking. Ever since, we have been watching the gentlemen's f et as they past our office, and having observed one whose boots cut a great shine. we begod him for the sake of our Kentucky friend to inform us where he got his blacking. To our great susprise, he told us that he was his own blacking maker—he said that the composition was a profound secret, and hinted that it was supposed by some philosophers that it was to the identical preparation that his Santanic majesty was indebted for his well known shining qualities. Under the circumstances, he could not refuse to communicate it to our Kentucky correspondent, but he does so, of course, under the scal of confidence. The recipe is as follows:-

2 oz. ivory black. 2 oz. coorse brawn sugar. oz. oil of vitriol.

oz. murratic acid.

table spaonful of sweet oil.

pint of vinegar.

Mix the every black, oil, sugar, and vinegor, and then udd the oil of vitrial and muriatic acid mixed together. - Southern Planter.

Sore Backs, or Galls on Horses.-Rub white lead in sweet oil until a good paint itab white lead in sweet of until a good paint is made, and apply a conting of this to the injured place. Milk will do, where no oil is to be had. It is one of the best applications. Some for the same difficulty use a solution of vitid in water, for a wash; but in most cases, the white lead is to be preferred.

Substitute for Ringing Swine.—A Mr. Tubh, an English breeder of stock, has recommended a mole of dealing with these mischievous animals, which it is said may supercede the necessity of putting rings into their's nose. It coesists simply of shaving off, with a razor or sharp knife, the grietle out the top of the noses of young pigs. The place soon hears over, and the pigs are thus rendered incapable of rooting—N. E. Farmer.

Ginger Beer .- One pint of molasses. and two spoonfuls of ganger put into a pail to be half filled with boling water; when well stirred together, fill the pail with cold water. leaving room for one pint of yeast, which must not be put in until lukewarm. Place it on a warm hearth over the night, and bottle it in the

Borers .- Mr. Wm. Salisbury of Medfield, tells us he destroys borers in his apple frees by ign ting the common brimstone matches and putting them into the hole bored by the worm so as to fumigate him in his burrow. He first clears out the hole as well as he can, and when he has lighted his match he inserts it while tho brimetone is barning.
We should think this a better plan then the

one which has been so often recommended, to see a wire or gonge to cut out the worm. He says he finds, on a trial, that this will kill the borer in the tree.

Our plan is to kill the young worms before they enter the bark ; yet as some trees may have so many worms in them that they die before the worms comes out, in their natural course, it may he proper to try brimstone famigation, and the expense.—Mass. Ploughman.

Lice on Cattle .- A writer in the Michiran farmer, recommends buttermilk for the lestruction of lice on cattle.

TOO MUCH LAND.

During a recent excursion in this, and some of the New England States, I was struck with the comprisive sterility of fand which ringht, by proper cultivation, become "the garden of the world." Instead of seeing fields of the wheat hearing thirty bushels to the nore, we find scarcely twelve to filteon is the yield; where two tons of hay should be cut, hardly one is the product; where thriving fruit-trees might be expected, bending beneath the weight of their debeious fruit, our eyes are pained by the sight of gnaries, etunted, and half-dead trees, scarcely able to sustain the life of the tew curied up leaves that come forth as if to reprouch their owners by the sight of their consumptive appearance. If they had tongues to speak, how litterly would they complain of their treatment. Is it because nature is so miserly that she does not reward man for the labor he bas ows on her or because man will not let her yield a bounuful supply in reward for his labor? What is the cause of this sterlity, and the complaints of the farmers that they cannot make a living, though they have hundreds of acres at their ommand? It is evident the fault is with them selves. They attempt the cultivation of too much land.

Our farmers have from 50 to 500 acres under what they call cultivation. Still they are in debt, and in many cases the more they possess the worse they are off. Their land is sea tered fur and near. Iwo nere here and ten there, instead of b ing compact together. In this man ner, more time is aften lost in going from one finest condition.

What is the remedy? Sell half of your land and spend the proceeds of it on the remainder, and thus make what you have yield a liberal inalways "followed in the too, steps of their fore fathers," of adding field to field to the r farms, as the height of folly, but I am confident it will, able and properly disposed, and the fencing be their salvation. There is a good old adage, capital. But with the exception of the dwelling, be their salvation. There is a good old adage, one that should be remembered by farmers as well as others, " Never attempt too much Depend upon it, there is no course so su cidal as that of owning and attempting to cultivate 200 acres, when you can bardly do justice to 100. Suppose, for instance, a man has 50 acres of naturally good land, and he has but a certain amount of minnure, time, &c., to use in as cultivation, which is not enough to keep it in heart, er pay that attention to rotation of crops which it requires, is it not evident that the land, the ewner, or whoever is connected with it, must suffer? would notall intelligent persons condemn such a course? yet how many such instances are to be seen all around us! I believe it would be for the interest of many farmers, even to give away a portion of their land, rather than to have so much in their one Self interest tells us, it is the true policy of such a man to sell what he cannot properly use, for he would gain time to devote to the remander, morely to purchase all that it required, his crops would yield in double ratio, hisland increase in value as it increased in fertility, and thus he would be in every way benefitted.

Thave seen acres of the best land, overrun with daisies, burdocke, thistles, mulleins, and other noxious plants, that root out the grass, and eat up the life of the soil, without affording nourishment to man or beast, which might by a little attention yield a rich harvest. But the farmer has no time to attend to i, and the land becomes worse than useless: for it is self evident that land must either mer are in fertility, or decrease in value-there is no middle way-it must afford a profit or be an expense

Look again at the swamp and mendow lands. with which our country abounds, that are now worthless, and causing sickness and death in their All these might be reclaimed. work should have three coats—the first, or prim
because they have too much land already calling
ag as it is called, should perhaps be made a
for their attention. The muck contained in

work should have three coats—the first, or prim
ag as it is called, should perhaps be made a
in most cases first, by superabundance are don
the thinner by the addition of a little more of the stomach—N Y Herald. made the most productive land, by a small out

these places, can be made to pay better interest than bank stock. Yea, if properly used, 1, may be the farmer's mine of wealth.

this leads me to inquire how are our land g'ally to be cultivated ! I reply, by using the experience and directions of it ose who have studed the chemical formation of soils, and the effeet different manures have on different soils Alue's time is los , and land injured, by the larmer not knowing the relative value of his manure, on I the theory of rot ten of crops, which in girt be saved by the expendence of a little time and mo ey in procuring and reading agricultural papers and books. There s too much of the saving a cent, and being a dollar economy in When the time shall have arrived that tats age. men will be willing to study the theory and practice of farming in all its details, then shall we see agricultural pursuits elevated to a proper standing, and yielding a profit that sault reporce the hearts of a l.

C. CASSE.

Orange County New York.

From the Southern Planter.

PAIN f.

In the last number of the Planter we expressed the opinion that the chargest and best pigment for the farmer's use, was white lead, and we promised to give some directions for its To say nothing of the preservation of the wood to which it is applied, the grantication the painter's brush affords theeye, is worth ten times more than its cost. Can any thing present a ner, more time is aften rost in going from our lot to another, in building the fen es of other people, and keeping out their cattle. than the whole income of the land amounts to I have myself lost more time in this way in a single year, than it would take to keep ten acres in the form of the land amounts of the work of spring, hardly does more for her works, than man with a little king of white lead, may do for We were forcibly struck with this lack of paint in a visit we late'y made to one of the most splendal estates to Virginia. The situation was high and day, the dwelling house large, com-modious and nanosome, the outhouses confortthere it stood in its o iginal gloom, ignorant of paint; and buildings that probably cost ten thousand dollars, for want of a hundred dollars worth of print, were suffered to decay and offend the eye. A Northern man, on approaching the house would inturally have exclaimed, Alas I for the proprietor, how long has ne been dead. He would have no idea that any thing less than sudden death could have caused him to leave his premises in such an unfin shed state. A roofless house would be as familiar to his eye as an unprinted one. We saw enough of elegant taste deplayed by the lady of the manson to inter that she is constantly at the gentleman to have the buildings and palings printed, and we saw enough of his deference to her wishes, to inter, that he is constantly promising to do so.

The main reason of the nakedness of our buildings is an exaggerated estimate of the difficulty of mixing and applying paint. operation is, in fact, extremely simple, and for all plain purposes may be performed by any The whote lead smart boy on the plantation. comes ground in oil, and may be had of any of the painters or apolicearies. (Our friend Du Val across the way will farmsh it as good and as cheap as any body.) This had is of two qualities, the No. 1, and Latea. The first can be purchased for about eight, and the latter, which from its suferior quality is actually the cheapest, can be had for nine dollars the humared weight. To every twenty-five pounds of lead about a gallon of lassed oil (which can be had for a dollar a gallon by the quantity) should be added the whole should be straiged through a wire sitter, or piece of course mustin, to free it from the particles of dry skin that have formed in the keg. Incorporate init ately into this mix-ture about a table-spoonful of yellow I that ge, for every gallon and a halt of paint, and you have white paint, ready for use. All kinds of work should have three coas-the first, or prim

than here directed, and care should be taken that it is applied to every part of the wood. When this is perfectly dry, the second coat of a little thicker consistence, may be applied. This should be had on smoothly, with long, even strokes of the brush, and the third coat should be applied about as thirdy as the first, with a light hand, and with particular attention to evenues and amouthness.

For colored paints, a flag and stone, worth about three dollars, are neces ary, to sub down the pigment used. For a lead color, admirably adapted to house tops, ploushs, and other implemens, dissolve lamptlack in a little spirits of turpentine, and add to your while point until you shade it to your fancy. A beautiful blue may be obtained by mixing the Prussian blue of commerce with oil and rubbing it down on the stone until you reduce it to an impalpable powd r. Other colors may be obtained in a similar manner, by a resort to other pigments.

Pa nt brushes should be cleaned with spirits of turpentine when the jab is finished, and between the intervals of using them they should be kept immersed in water, to prevent the paint on them from becoming dry and stiff.

Midsummer is considered an unpropitious time for painting, as it is supposed that the heat of the sun has a tendency to evaporate the oil before it sinks into the wood In this chiate, painted work will require a new coat at least once in three years. But if the porce of the woodard well filled at first, this renewal is a small matter, requiring comparatively little labor or material.

SCARLET FEVER.

In the Gazette page 267, we gave from the Balumoro American a communication over the signature "Medicus" recommending the extract of Ballardonna as a preventive where this fearful epidemic is apprehended. If that preventive and the following remely are what the witters claim for them, by proper attention the disease may be easily overcome :-

To the Editor of the Democratic Gazette.

SIR,-I wish to call the attention of my professional brethren, and of the public generally to the following mode of treating the scarlet fever, a disease that has so severally afflicted several tamifies in our city, and about which there exists so many fearful apprehensions.

In every case in which I have used it, I have found the disease yield readily to the Colchicum Autumnale, no matter what may be the degree of malignity. I believe this to be the best re-medy that has been found. I have used this alone in several cases, and always with the hap-piest effect. The disease, in any stage of as prest effect. progre-s, yields under its mil ience in a very lew days.

Mr mide of administering the Cotchicum is the following:-Io a child one year old five drops of the Vinum Colchics every three hours, mereasing the dose one drop for every additional year of the patient's age.

JAMES GUILD, M.D.

Early Rrising. - A correspondent of the Exeter News Letter gives the following reasons for early rising, which are conclusive. It is to be regretted, however, that with many, fashion and idleness are of superior influence to sound reason. The writer says:

The practice of early rising should be adopted-1st. Because ature does not require but a few hours sleep. 2d. The morning air is the most hearthy and invigorating to the system of any in-tine course of the day. 3d. The body and mind-are better prepared for the necessary business of nie in the early part of the day than any other. 4th. By avoicing the habit of sleeping in the morning, there are more hours of consciousness and activity, so that life is made to appear longer than it otherwise would.

Sich Headache - Two tea-spoons full of finely powdered charcoal, dronk in a half tambler of water, will in less than fifteen minutes

CULTURE OF THE APPLE.

From Mr. Ellsworth's Report.

-At your request I send you herowith my

mode of cultivating the apple tree.

For some years I have been experimenting up of the apple trees, liaving an orchard of 20, 000 bearing Newtown pippin trees. I have found it unprofitable to wat for what is termed the bearing year; and consequently it has been my study to assist nature so as to enable the tree

to bear every year.

I have noticed that it produces more pr. fusely thru any o her tree, and consequently requires the intermediate year to recover itself, by extrac ting from the atmosphere an learth the requisites

to enable it to produce

One year is too short a time for so elaborate a a process, and it unassisted by art, the intervening year must necessarily be lost. If, however, it is supplied with the necessry substances, it will bear every year—at least, such has been the result of the following experiments:

Three years ago, in April, I scraped all the rough bark off several thousand trees in my or-

chard, and washed the trunk and linus within reach with soft soap, trimined out all the bran-ches that crossed each other early in June, and painted the wounded part with white lead, to keep out the moisture; then split open the bark, by running a sharp pointed kane from the ground to the first set of limbs in the latter part of the coming bark bound, and gives the inner wood

an opportunity of expanding.
In July, I placed one peck of oyster-shell lime around each tree, and left it piled about the trunk until November, during which three months the drought was excessive. In November, the time was due in thoroughly. The following year (1812) I collected from those trees 1,700 barrels of fruit, some of which was sold in New York for \$4 per barrel, and others, in London, for \$9; the cider made from the refuse, delivered at the mill two days after its manufacture, I sold for \$3.75 per barrel of 32 gallons, not including the barrel. In making order, I never wet the straw. After gathering the fruit in October, I manured the same trees with stable manure, having secured to it the ammonia, and covered it immediately with earth.

Strange as it may appear, this year (1843) the same trees literally bent to the ground with the finest fruit I ever saw. The other trees in my orchard, not treated as above, were barren.

Yours very respectfully,

R. PELL.

Hon. H. L. Ellsworth.

From the Mass. Ploughman.

Mr. Editor .- What a strange itching there is, once in a while, among our young men, to live in the city! To tice do I say? In fact it is no living at ail, compared with the healthy treedom of a country life. Has a farmer a pair of boys in their teens, say from fifteen to twenty, just becoming of use in carrying on business, and Has a farmer a pair | in whose care and attention he has all confidence, ton to one if some flippant twattier of the city does not come out on a convincing trip, and set them agogfor the town. In such a case of what them agogfor the town. In such a case of what them well with boiling water, and then put avail is a parent's advice or authority? To they quicksilver beaten with the white of eggs, in must, and go they wil, and go they do. So every crack and corner. One white is enough the crow-bar is given up for the goose quil, and for a bedstead, with as much quicksilver as it the plough handlefor the yard-suck. The poor will receive. It is the only thing that will keep dappointed father, new has to shift and turn as he can, and manage his husbandry by hook or accorded to. It is a certain poison to bugs, by crook; getting help, as he can find it. But he moves heavily and sad over his fields, and often lets fall a tear wheneverhe reflects that his once fond anticipations of seeing h somssettled once fond anticipations of seeing h seensettled near him, and participating with him in the near him, and participating with him in too from linen and cotton. Moisten with cold water, pleasures and profits of an agricultural life, are then hold it over the smoke of the burning bingnow never to be realized ! After a month or two the boys come home on a visit; and how do they appear? Not by any means in their former habit, glowing in robust health, with sinewy arm, bone and muscle of two young sinewy arm, bone and muscle of two young Samsons, with step brisk and energetic, but sallow and nerveless,—victius of dandyism, mere city goslings!

In the days of my youth, old people were the smokers; but now every younker has a cibar in

his mouth, and cocking it up about forty-five degrees, as he stands braced against some post or pillar with folded arms, he pulls away, looking amazingly wise, and talks largely about business, the price of stock, &c., as if, for sooth, he were a thing of some consequence in the world! O, gracious! Did you ever oucounter one of these time of fortens. bits of fustion, when journeying in a stuge, reader, with his gran's beard langing from his chin, his pinch back watch safe around his neck, and sporting his shepherd's crook ? What a fogo he keeps up to the annoyance of the company ! Save me from ever coming in contact with the like nuisance again 1. And yet, I wish I in truth could say, that such a bit of farintare was never manufactured out of a farmer's boy.

My readers are aware, that occasionally I give them my thoughts in measure. I hope apology them my thoughts in measure. I hope apology will not be necessary, if I descent a little in the present case. Not long ago, I heard with much pleasure, from one of the Boston Euterpean Band, the well known song of "Lyc on the Ocean Wave" &c., and I thought it might by a rort of parody be well metamorphosed into a pleasant farmer's song ; and here it is ; sing it it you please.

THE FARMER'S SONG.

A life on my native soil ;-A home in a farmer's col.-I'll never at labor recoil, And ask for no happier lot. The city has not a charm, With its turnioil, and noise, and strife; O, give me a snug little farm, With a kind and notable wife. A life on my native soil ;-A home in a farmer's cot ;-With my three cattle team will I toil, And ask for no happier lot. Gee up !-Gee up !-

Gee up, gee up, and gee O ! On my own native soil here I stand, Midst blossoming fields around ; While the air is pleasant and bland, And the hills with caule abound ! The river is flowing by; The boatmen singing we hear:
And the laborers, how they ply,
While echo sends round their cheer!

A life on my native soil;—&c. How cheerful it is to view

Whole vallies of waving grain, And the husbandman's jovial crew With sickles prostrating the plain I

O, the song of my heart shall be, While earth her sweet products shall yield, The life of a farmer for me A home in the forest and field.

A life on my native soil ;-&c. Now, my kind reader, if you are a musical farmer, just run over the above, while your wife or daughter accompany you on the piano forte, a la mode de Russell. But if to this proposal you demur as the lawyers say, then call in, and we will give it in our poor, plough jogger style.

Bedsteads.-Those who wish for neat does not come out on a convincing trip, and set bedsteads for the ensuing year, should wash

> stone will remove fruit stains and iron mould stone.

DURHAM BULL CALF.-For Sale. by the Subscriber, a very fine Bull Calf. Colour Red, with White Spots: out of a very fine Low, imported direct from England. Pectigree perfect. Price £25.

ADAM FERGUSSON, Woodbill.

Waterdown P. O., August, 1844.

NEWS FROM ENGLAND! BY EXPRESS TO TORONTO Willner & Smith's Europe-

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Among other num-rous and fluttering Testimoare greatly is debted to this Newspaper for our Foreign, Miscellaneous, and Commercial News; one number of WILLMER & SMITH'S EURO-

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Collsfoot, Comtrey Root, &c. &c. &c.

Likewise a constant supply of all the SHAKERS'
Henns and Extracers, which hitherto have been
so difficult to procure in this market; with a
general Assortinent of Drugs, Medicines, &c.

ROBERT LOVE, Druggist,
Yonge Street.

Toronto, June, 1844.

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 reasonnule terms. His Dam and Sire were imported from England, in 1838, by Mr. George Simpson, of Newmarket Grange. The herd from which Mr. Simpson made his selection were among the very best improved Durham Stock in Yorkshire.
Any faimer or breeder who is desirous of pur chasing a very superior animal, of this unsubscriber before buying elsewhere, as the Bull in question has been pronounced, by competent judges, to be one of the very best in the cointry.

H. THOMPSON,
Township of Toronto, May 30, 1844.

N.B. Application by Letter to be directed to the Etobicoke Post-office.

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N.B. Publication Office of "The British

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Toronto, July 23, 1844.

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

A. O. MEDLEY, Manager.

April, 1844.

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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 L nds or improved Farms to give him a call. Lands purchased for persons at the Givernment Sales, located and money paid on the Deeds procured at a moderate charge

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and Deviseo Act, and Deeds taken out.

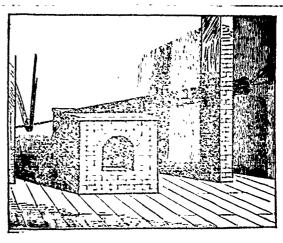
Militia Claims and U. E. Loyalists Rights procured and bought. Bank Stock and Government Debentures bought and sold. Petitions to the Governor and Council for pensions or lands prepared and prosecuted. Money advanced on letters of credit upon Great Britain, mortgoge

or personal security.

N. B.—On all Givernment 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 SALE. All Letters must be Post paid. Toronte, March, 1844.



REVOLVING DRYING KILN.

A Merchants, and the Public generally, that he had, by addressing the Subscriber. All commu-has, at considerable labor and expense, invented microtions (post-paid) will be immediately replied and completed a Machine for DRYING Wheat, to. Oats, Birley, 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 ginen per hour in a most perfect. main er. 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 manu facturing. 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 diving 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 Machines to order, or dispose of the right to persons destrous of manufacturing or using the same.

THE Subscriber begs to inform the Millers, t Any further information on the subject may be

HIRAM BIGELOW.

Tecumseth, Bond Head P. O, February 15th, 1814.

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 presing through its centre, on which it revolves with a pulley or wheel at one end, by which it is just in motion. The Cylinder is pliced in an oblique position, having about 18 inches fall, and is enclosed either in another metal cylinder, or a brick area, of thirteen inches diameter, leaving a space of one inch and a half between the two cylinders, through which space the fire is conducted from a fire-place or grate, at the lower end, and passes out by a chimney at the upper end. The grain is conducted by a rube into the upper end of the inner cylinder.

CARDING MACHINES.

THE SUBSCRIBER begs leave to acquaint his A friends and the public in general, that in addition to his Foundry and French Burr Mill Stone Factory, he has engaged Archelaus Fupper, who is an experienced Mechanist, to make all kinds of CARDING MACHINES, of the latest and most ap-proved constitution; he has been engaged for twenty years in the United States, and also in inventy 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, Jucks, Billeys and Jirney. Also, Broad and Narrow Looms, Shearing Machines, and Giggs, Napping and Teazling; Stoves for heating Press Plates, Press Scrows. Also, Gunding Shearing Machine Blades; Fulling Mill Cranks, &c., and all kinds of Grist and Saw Mill Custings made to order; Wenneyle and Cast Loo Confirmed and Patte Stoves. of Grist and Cast Iron Cooking and Plate Stoves, Wrought and Cast Iron Cooking and Plate Stoves, Fancy Stoves of all kinds. Also, Ploughs of different patterns, Mill Science of all kinds; and Damsall Irons; Bolting Cloths, of the best Durch Anker Brand, warranted of the best quality; Mill Stones of all sizes, always on hand and to order. Also, all the other herein-mentioned articl's always on hard and for sale by the Subscriber, at his FOUNDAY, on Youge Street, as cheap as they can be obtained at any other place.

CHRISTOPHER ELLIOT. Toronto, August 7, 1813.

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