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"the: eartil being mas's inheritance, lt behoveth him to cdltivate it froperly."

## Vol. I. FBEDERIETON, N. B. FEBRUARY, 1845. No. 10.

THE FARMER'S ILANCAL,
Containing Sixteen Pages Super Royal Octavo, will be pubhshed every Month by Janes 1. A. Phillips, at the Office of the "Head Quanters," between the Central Bank and Messrs. Gajuor \& Thompson's Store.
Terns.-Five Shillings per annum, when pad in advance, Six shilings and three-pence, if nut pard wathin six months, and Seven shillings and sos-pence, if not paid lefore the expiration of the year.-Single numbers, Seven pence, half-penny.
Advertisements will be inserted for Four shillings and Six-pence, if not exceeding is lines, and in the same proportion for every line above that number.
OT Ten percent. will be alluwed to $A$ gents for collecting and forwarding money.

## THE FARMER'S MANUAL.

We promised, in our last number, to prove that system in the management of land already cleared is one of the first objects which should be considered by a judicious Farmer.

Almost every person conversant with agriculture will confess that Scotland is by no means favored by nature in the general quality of its soil, or the goodness of its climate; yet Scotland stands equal, if not superior, to any otner country in the world, in the improvements that have been made in good husbandry.

It might be impussible to trace wilh correctness the various changes which have placed that portion of the British dominions in advance of the Sister Kingdoms, but we are certain that the work on Agriculture, published by Sir John Sinclair, contributed in a great degree to the happy effects of which we are now treating. To this writer the people of Scotland are indebted for the origin of their present prosperity; and we have no hesitation in saying, that were the Agricultural Societies in New Brunswick to have judicious selections from his works kept constantly in circulation among the rural population of this Province, it would be productive of much benefit. We ali know, or ought to knors, that the landed promictors in Great Britain and Ireland have studied fo: themselyes, and
spared no pains in bringing to their aid scientific men, of every nation, who could assist in rendering the soil, of which they are the owners, more valuable. The result of all their enquiries depend first upon adopting some system in their treatment of the soil. Should any one unacquinted with the subject doubt this, we subjoin a clause introduced into almust eiery Lease which has been given since the days of the eminent agriculturist, whose name we have mentioned.-It runs thus :-
"Moreover the said A. B. herẹby obliges himself, and nis foresaids, not to over crop or waste the ground hercby let, but to manage the same according to the rules of good husbandry; and in particular he obliges himself and his foresaids, Juring the last seven years of the lease to manage and crop the said farm, according to a seven course shif, and he shall leave at the expiry thereof one severth part of the land in first years' grass properly laid down with clover and rye grass seeds, after green crop or fallow properly dunged, for which grass he shall be entiticd to be paid at the term of Miartinmas after his removal, according to the value thereof to be ascertained by two proper judges to be named as aforesaid at the term of Whitsunday-and one seventh part for turnips or fallow for which he ehall also have an allowance to be ascertained as aforesaid, and so on according to the ruies of a seven course shift with his whole land; as also the said A. B. shall be bound to leave the whole dung made upon the farm after the first day of July in the year preceding his removal, carefofly gathered together for the use of the proprietor or incoming tenant, to whom the same shall belong on payment of the value thereof, to be ascertained by two proper persons to be mutually named by the parties. The proprietor or incoming tenant, shall have right. to sow grass seeds in such parts of the sround hereby leh, as may have been in green crop or fallow for the year preceding the expiry of the lease, which the said A. B. shall be obliged to harrov and roll in along with the grain crop without any allowance."

The original copy of this document is in our possession, and contains other matters which are worthy of consideration; but having confined ourselves to the consideration of system alone, we shall not now touch on them. The climate and soil for which the seven course system was adopted, is in every way unfavorable to the climate and soil of this Province, and the land here might perhaps admit of what is called a five course shift, which would leave the land only two instead of three years in grass; but this is a matter which can only be settled by a strict enquiry by those who have experience, and can testify to the general capabilities of the soil, in the particular district to which they belong. The settlement of this question alone would amply repay the trouble and expense attending the formation of local Agriculturai Societies, in connection with those already in operation.-In our next number we shall offer to our readers some remarks on the system adopted by Agriculturists in Great Britain and the United sitates, in the arrangements of their buildings and preservation of their grain.

We have been favoured with the following extract of a letter from a gentleman of St. Mary's in this County on the subject of "Guano."
"Ihave tried it in three different situations in the garden, on a piece of meadow land after manuring, which had produced a ton to the acre, and on a piece of cold clay land nearly covered with green moss, and which had not produced three cwn to the acre.

I could discover no effects in the garden, but on the grass land the results were beyond any, thing of the kind I have ever seen. The Guano was sprinkled lightly over the soil at the rate, 1 should judge, of about 7 bushels to the acre, and in the course of a week there was a very perceptible improvement. The moss died and rapidly decayed, and Timothy and Clover grew up where not a blade was seen before. At the expiration of about two months I mowed the pieces carefully and also pieces of the same size adjoining which had not been top-dressed, and upon weighing the produce I found that the crop on the first picce was as 11 to 43, giving an increase from the Guano of 63 ; and on the second piece as 5 to 2 -making an increase of ten to one."

## CHARLOTTE COUNTY AGRICULTURAL SOCIETY.

The annual mecting of the Society, was held on the 14th inst., at Copeland's Hotel.

Dr. Frye, President, in the Chair.
The 25th annual Report was then read by the Secretary, which was unanimously adopted, and the thanks of the meeting were given to the Secretary, for his able Report.

It was then moved that the President leave the chair, and the Hon. Thomas Wyer take the same. The officers were then balloted for, and are as folloris:-

President-Dr. Fryc ; Vice-Presidents-Hon. H. Hatch, and Hon. T. Wyer; TYeasurer-W. Hatch; Secretury-D. D. Morrison.

Commutee-Joseph Walton, T. Sime, C. R. Hatheway, T. 'I'urner, D. Mowat, H. O'Niel, J. Lochary, S. Getty, and John M'Curdy.

The following is the Report.

## REPORT.

The revolution of another year, calls upon the President and Directors, to lay before the Socjety a report of their proceedings for the past year; and in doing so, they would, in an especial manmer, deeply express their gratitude to an overruling Providence, for the bountiful return which has rewarded the labours of the husbandman, and the propitious weather which enabled our farmers to procure the fruits of the earth in due season, ann? in fine condition. The unusually dry and carly spring, afforded time for getting every description of seed into the ground mach earlier than usual; and, although the summer may be said to have been cold, yet it is satisfactory to record that crops of every description, except where mildew interfered with them, yielded a good return, and may be said to be over an average, and the wheat, in many instances, very superior in quality. The turnip crop, however, did not generally answer expectation, although good in several instances; one of which was on the farm of Colonel Mowat, in the vicinity of this tomn, who cultivated about two acres in one field-manured with wsuscle mud, fresh from the beach. The yield was about eight hundred bushels to the acre, and proves the great value of that kind of manure. The greater part of the turnips were ruta bagas, with a small portion each of yellow Aberdeen and the hybud variety, the latter of which he speaks of in high terms of commendation for stock.

The grass seeds ordered by the Board, arrived in good season, good order, and of frme quality; and, together with those that remained over from last year, were all disposed of, so that a full supply will be required for the approaching season.

The sheep ordered to be imported, arrived safe, and although costing a large sum of money, it is to be hoped, that eventually the country will be compensated for the outlay. They have been disposed of for the present scason within this Parish, and so as to secure the increase of the ewes, (if any) to the Society. The great expence attending the importation of stock of every description, renders it desirable, that great pains should be taken to improve the breeds already in our possession, especially such as are considered from actual experiment, to be the best adapted-all things considered, for the wants of the country.

The plough metals ordered, arrived likewise, in due season, and the increasing demand for them, prove their great value to the country; every description of ploughs has nearly giver place to those now manufactured in the County, after the "Wilhie" pattern, and it is presumed that no other description of ploughs answer for all the purposes of our farmers so well, or can be procured by them with the same facility.

The Cattle Show and Fair was held according to previous arrangement, at the farm of Mr. John M•Dowal, to whom the thanks of the Society are due for the trouble and inconvenience to which he subjected himself, as well as for his hindness and hospitality. It is most gratifying to observe, that the progressive improvement, in almost every department of our agricultural production, has rea. lized the most sanguine expectations of those who
have for years exerted themselves to urge its claims, to foster its interests, and to promote by every means in their power, a spirit of practical inquiry, having a tendency to develope the capacity of our soil and clinate, and to establish the important truth, tha with a proper application of our resources, the County is fully capuble of sustaining a large population. The horses exhibited, fall short of heeping pace with the improvement conspicuous in other kinds of stock, and it may be deemed worthy of consideration, whether some effiort should not be made by the Society to encourage the introduction into this County of such a breed of this most uscful animal, as would be thought best adapted to the general purposes of the country.The neat cattle exhibited, were very creditable, and several animals shewed superior points; but we cannot overlook the deficiency in the number and quality of "Steers" offered for competition, and trust that in future we shall be eble to report more favourably of this discription of stock.

The sheep exhibited, were numerous aud highly satisfactory, those taking the premiums being a cross from the sheep imported by Colonel Marks, of Saint Stephen, some time since. The public spirit oi that gentleman has contributed in various ways to the improvernent of farm stock in this County, and fully entitle him to the gratitude of the farming community.

The swine, likewise, shewed marked improvement, which proves that the money expended by the Society for that purpose, has been well applied.

The produce of the dairy offered for competition, was such as to prove the adaptation of this County for dairy purposes, and to warrant the conclusion, that with proper attention to the selection of stock, and to the manufacture of butter and cheese, dairies may become a source of wealth to our farmers.

The manufacture of woolen cloth is another branch of domestic industry that is deserving of every encouragement, and from the superior samples entered for competition at the late Fair, and the interest excited on that occasion, we have every reason to be satisfied that a right feeling exists amengst our farmers and their families, which is appreciated by all classes in the community.
The stirring spirit of emulation which has always been excited where well contested Cattle Shows and Fairs have been held and properly conducted, seems to have been attended with such beneficial results as to leave it no longer questionable, whether such exhibitions should be encouraged, it having become a settled principle among the best friends of Agriculture in all countries, to lend their aid, to countenance with their presence, and to promote with all their influence, a spirited competition in the reproduction of superior animals, and superior produce of every description, and rewarding the most successful efforts, by giving premiums from time to time, in proportion to their neeans. How far the Society will be able to foster a spirit of improvement by granting premiums for competition, and carry on all the other arrangements deemed necessary, must depend in some degree on the support which may be realized from the agricultural part of the community; and the disposition which has been exhibited during the past eason, leads us to hope that they will hereafter better appreciate the exertions which the Society are making, in order to confer a lasting benefit upon the country, and to compensate, so as to strengthen their hauds, and promote endeavors so worthy of their support.
The large sums paid annually for grass and closer seeds by our farmers, renters it wortiay of con-
sideration, whether some encouragement should no: be extended to persons settling on new lands, and having large quantities of hay at a distance frem a market-could they be induced to turn their attention to the raising of those seeds? The demand for eastern or northern seed raised on new lands, has increased to such an extent, as to ensure a ready demand and a fair price for any guantity. The farmers in the interior of the State of Maine have, of late years, paid much attention to the growing of herds grass and clover seeds, and now export large quantities.
These remarks have been suggested in consequence of a sample of herds grass seed exhibited by Mr. John M'Curdy, of this Parish, at the Socicty's Fair, which was equal, if not superior, to any we have seen imported, but to which the Committee could not give a premium, there being none appropriated for that purpose.
William Porter, Esq., of Saint Stephen, having liberally presented several bags of African guano to the Society in June last, with a view of affording some of our farmers an opportunity of testing its proprieties in this County, the same nas distributed in small lots to farmers and gardeners, with the understanding that they would report the result of their experiments to your Secretary ; but, as yet, he has received no notice from any person respecting it.
The President and Directors, fully assured of the paramount importance of agriculture, cannot conclude their twenty fifth Report, without urging one and all to bear in mind that our united exertions are necef sary to sustain and promote the best interests of our common country ; and that the object placed before us, is of human attachment, and for our own welfare and prosperity, and therefore calls for our zealous and united co-operation.
D. D. MORRISON Secretary.

On motion of the IIon. II. Hatch-Resolved, that the thanks of the Society be tendered to Col. Marks for his laudible exertions in improving the breed of stock of various kinds in the County.
On motion of Col. Wyer-Resolved, that the thanks of the Society be given to William Porter, Esp., for his valuable present of guano, and that the Secretary convey the same in writing.
On motion of Mr. D. D. MIorrison, the thanks of the Society was voted to Mr. John MDowal for his kindness and attention in furnishing accommodation for the Cattle Show ad Fair in October last.
At six o'clock a large company sat down to a dinner prepared by MIr. Copeland. Several loyal and patriotic toasts were drank, with every demonstration of good feeling and respect, and several songs were sung. The company separated at an early hour, much pleased with their evening's entertainment.

## rearing cattle, Witil a view to EARLY Maturity.

The production of beef at the cheapest rate being the object in view, the first requisite is a stock of cores possessing qualities suitable for this purpose. Accordingly they should be good millhers, able to keep at the rate of two and a half to three calves each-of a kind known to have a tendency to fatten readily, and to come early to maturity, and of a structure likely to produce a vigorous well grown steer. In other words, they must be good short-horns; only having more regard to their milking properties than is usually done by the breeders of buls. And here it mould be well to
notice, that it is in general highly expedient for the beef grower-the farmer who depends largely on his regular cast of lat cattle-to attempt breeding his own bull. It is only a fow individuals in any district who have the tasto and skill requisite for this dilficult department of the business, not to mention the large capital which must necessarily bc invested in it, the precariousness of the return, the great liabilily to casualties of such high bred animals, and the additional expense of their housing and maintenance. On Tweed side, the breeding of bulls is confined to a very limited number of persons, chiefly Northumbrians, who, by devoting their whole attention to this department, are able, from ycar to year, to furnish a class of bulls which are steadily improving the general breed of the district. The contrary practice is at this moment compromising the character of this vaiuable breed of cattle in several districts of Scotland into which they have been more recently introduced. Made wiser on this point by experience, the farmer of the Border purchases from s sme breeder of established reputation a good yearly bull, which he uses for tro or three scasons, and then replaces by another in like manner. This bull serves his own cows and those of his hinds, and some of the neighbouring villagers; and thus, though his own stud be limited to sis or eight cows, he can select from the progeny of his own bull as many calves as he requires to make up his lot, and has them more uniform in colour and quality than could otherwise be the case. As the male parent, among sheep and cattle, is known to exert by far the greatest influence in giving character to the progeny, and increasingly so in proportion to the purity of his breeding, it is evidently much for the advantage of the beef grower to spare no reasonable trouble and expense in obtaining a bull of thorough purity, and then to select his calves with the most serupulous atiention. From overlooking all this, how often may lots of cattle be seen, on the best of land, too. which can only be fattened at an enormous expence of food and time, and, after all, are so coarse in quality as to reaiise an inferior price per stone. Occasionally a few beasts of the right sort will be seen in such lots, which, by going a head of their fellows, to the extent of $£ 4$ or $£ 5$ a-piece of actual market value, show what might have been done by greater skill or attention on the part of the owner. It is yery desirable to have all the cows to calve betwixt lst February and 1st April. If earlier, they will get almost dry erc the grass comes, and calves later than this will scarcely be fit for sale with the rest of the lot. When a calf is dropt, it is immediately removed from its dam, rubbed dry with a coarse cloth or wisp of straw, (this being what the cow would do for it with her tongue, if allowed, ) and then placed in a crib in the calf-house among dry straw, when it receives a portion of its own mother's milk, which, being of a purgative quality, is just what is necded by the young animal. For a fortnight, new milk is the only food suitable for it, and of th: 7 it should receive a liberal allowance thrice a day but means should now be used to train it to cat lin.eed cake and sliced Swedish turnip; and the readiest way of doing so is to put a bit of cake into its mouth inumediately after gettiag its milk, as it will then suck greedily at anything it car: get hold of. By repeating this a fery tines, and placing a few pieces in its trough, it will usually the to this food freely, and, whenever this is the case, it should have as much as it can eat, that its allowance of milk may be diminished, to meet tie necessities of younger calves which are co.ning in successior. This is of the greater im-
portance that it is olways most desirable to avoid mixing anything with ther nilk by way of helping the quantity. When a eubstitute mast be reresorted to, oatmeal porridge mixed with the new mill is perthaps the best. Sago has of late years been much used for this parpose, but an coniment English veterinary surgeon has recently exprrised a very decided opimon that its use impairs the digestive powers of the animal, and predisposes to disease. The sour smell invariably found in a calf house, where porridge or jelly of any kind is mixed with the milk, is proof sufticient that indigestion is the consequence. An egg put into each calf's allowance, and mixed with the milk by stirring with the hand, is a good help, and never does harm ; but, with this ecception, it is best to give the milk warm and unadulterated, however small the guantity, and along with this, dry farinaceous food, turnips and hay, cul lilhitum. If more liquid is needed, a pail with water may be put within their reach, as this docs not produce the bad effects of mixed milk. Indeed, in this, it is best to keep as closely as possible to the natural arrangement according to which the calf takes its suck-at first frequently, and then at longer intervals as it becomes able to eat of the same food as its dam. The diet of the cows, at this season is a matter of some consequence. Swedish turnips yeld the richest milk, but it is too scanty, and calves fed on it are liable to inflammatory attacks. Globe turnips should, therefore, form their principal food during the spring months. Care must also be taken that they do not get too low in condition in the autumn and winter, and for this end it is well to put them dry at least three months before calving. Some may think this long; but, on a breeding farm milk is of little value at this season. The cows, when dry, are kept at less expence, and, by this period of rest, their constitution is invigorated, greater justice done to the foctus, now rapidly advancing to maturity, and so much more milk obtained after calving, whenit is really valuable. When the calves are from four to six weeks old, they are removed from their separate cribs to a house where several can be accommodated together, and have room to frisk about. So soon as the feeding-yards are cleared of the fat catlle, the calves are put into the most sheltered one, where they have still more room, and are gradually prepared for being turned to grass; and, when this is done, they are still brought in at night for some time. At six weeks old, the mid-day allowance of milk is discontinued, and at about fourteen weeks they are weaned altogether. When this is done, their allowance of linseed cake is increased; and, as they have been trained to its use, they readily eat enough to improve in condition at this crisis, instead of having their growth checked, and acquiring the large belly and unthrifty appearance which used to be considered an unavoidable consequence of weaning. The cake is continued until they have so evidently taken with the grass as to be able to dispense with it. They are not allowed to lie out very late in autumn, but, as the nights begin to lengthen and get chilly, are brouglit in during the night, and receive a foddering of tares or clover foggage. When put on turnips, the daily allowance of cake (say 1 lb . cach) is resumed, and continued steadily through the winter and spring, until they are again turned to grass. This not merely promotes their growth and feeding, but (so far as the experience of five or six years can determine the poini) scems a specific against blackleg, which was often so fatal as altogether to deter many farmers from breeding. It may be well to
state here distinctly the particular purpose for which cake is given at the different stages of their growth. At first, the object is to accustom them to a wholesome and nutritious diet, which will supplement the milk obtained fron any given number of cows, so as to almit of a greater number of calves being reared, and, at the same time, have greater justice done them than could otherwise be practicable. At weaning-time, again, it is given to help the young animal over the transition from milk to grass alone, without cheek to growth or loss of condition. Dtring the following winter, however, the special object of its use is to prevent black-leg, as, but for this, turnips ail libilum would be sufficient. When put to grass as year-olde, they decidedly thrive better on sown gtass of the tirst year than an old pasture, differing in this respect from cattle whose growth is matured. They are laid on turnips again as early in the autumn as these are ready; and it is a good practice to sow a few acres of globes to be ready for this express purpose. It dues well to give the turnips upon the grass for ten or fourteen days before putting them finally into the feeding yards; and then, if they can be kept dry and warm, and receive daily as many good turnips as they can possibly eat (globe till Christmas and Swedish afterwards,) they will grow at a rate that will afford their owner daily pleasure in watching their progress, and reach a weight by the Ist of May which, if markets are favourable, will reward him well for all his pains. The leading features of this system are, good keeping and progressive improvement; in other words, to get them fat as soon after birti as possible, and keep them so till they reach maturity. The details given above are a description of the expedients generally adopted by the breeders of this district for securing these objects.-Mr. IWilson, 'Transactions of the Highlanul Society.

## MANAGEMENT OF THE HORSE.

This noble animal is an indispensable servant and companion of the farmer. He ploughs, he harrows, he carts over the farm. He goes to market, to mill, and to meeting; he alsc accompanies his master to election frolics, political gatherings, and winter sleigh rides, and his company is as much sought after, at such times, as the orator's or the fiddler's.
The horse is more offen abused than any of our domestic brotes. He is too generous to spare his limbs or his wind when we are in haste, and his gencrous ambition too often causes his ruin.
On the farm, however, the horse is not so generally over driven as on the highway, when we attempt to outstrip the wind, and leave steam engines behind. It is fast driving and subsequent neglect that bring on sprained joints, broken lungs and premature old age.
Horses that are worked on a farm and are well attended to, will often be good in harness at 35 years of age; while those that travel in stages are not expected to last longer, on an average than six or seven years. They are then turned off to the farmer to serve in better business, or are sold to the tanner for what the skin is worth.
We have thrown out a few hints in a former number, on the subject of horse brealing. We hold that any horse, well brolien, may be made to draw as surely as an ox. The horse requires different treatment because he knows more. And this circumstance makes it absolutely necessary that his driver should be wiser than the driver of an ox. We cannot vouch for the saying of the Irish,
"that a horse knows as much as man according to his bigness." Still we conjecture that some horses have more understanding than some men have.

## Howe to treat Horses on a journey.

Much judgement is requisite to keep a horse in good trim on a long journey, and when your jaunt is but twenty miles it is worth your white to look well to your horse. The first step is to fit the horse for the journey. If he has been kept out at pasture he should be taken up and put to hay and grain for a number of days before starting. Hay and grain must be his food while he labours hard, but when you first commence giving grain you must limit the quantity. When he has become used to cating grain you can make that his principal food on a journcy; and this you will find cheaper than any other food.

We have known farmers, of very good sense in other matters, aci most absurdly in the management of a horse. They will give "dobbin" a mess of grain just before "arting in the morning though he has not been used to eating it before. Just as if a half a peck of oats or corn, crammed down hastily, would aid him in his journey. Dobbin would perform much better through the day without a mouthful of grain. Even one that has been long used to it, should never have his stomach stuffed full of it just before starting.
Your most hearty food should all be given at night, unless you have ostlers on whom you can depend, to feed them two or three hours before morning; in such case, a part of your grain may be given at night, soon after you stop, and the remainder two hours at least before you renew your journey.

We are a ware that some over-wise teamster will argue, that if you give your horse his grain at night, he will eat no hay of consequence, and that you will throw away the money you pay for hay in feeding. They, therefore, endeavour to stuff in as much hay as possible at first, and give the more palatable food for n dessert or stuffer. This is most unvise on two accounts-your horse needs his most hearty food soon after his day's work is over,-and very hearty food hurts him when fed just before his work comm'nces.

If the grain is given at night your horse soon eats enough to cloy him sufficiently to induce sleep and rest; but if he must have poor picking for some hours after being put up, his time of sleep and rest is delayed; it may require the whole night, on fodder that he must pick over, to satisfy the craving of his appetite.
If your are used to travelling you know you cannot always be sure of the best of hay for your horse. In New York the Dutch tavern keeper advises you to feed with his latest cut hay. He argues that more heart is found in this than in what is cut while in full blossom. Well, give a knowing horse such hay, and he will stare you in the face and whinow for grain.

We have travelled much, and on long journeys -we have learned from long experience that grain mușl be our chief reliance for horse food-that the horse wants something substantial soon after being put up-that his grain then benefits him much more than at any other time, because he is then most in want of it, and because it then has time enough to digest and to go into the system.
The best mode is to rely chieffy on grain. One peek of good corn is equal to two pecks of oats, but as your hay may not be good, prefer turning down half a bushel of oats, before your horse soon after putting him up at night. He must have
something to fill his stomach, and as the hay may be worthless, your oats will answer for hay and grain too. Your horse will now som eat as much as he wants-he will soon lie down to rest aud to sleep; and before morning his grain will all be converted into good chyle and wall nourish his blood.
The next morning your horse will be ready to start before you wake up. Instead of waiting for him to eat a new mess of grain, and then to let it digest, you find him plump and good natured and asking for nothing but your company.
It is well known that horses are often ruined by eating grain at improper times. Farmers have fancied that eating it while the animal is hot with exercise is the principle cause of injury from grain; but it is not so We have known many horses to die suddenly on eating grain, but never on account of eating it soon after stopping. It is rapid driving-violent exercise-soon after cating the most hearty kinds of food, that is destructive to travelling horses. There is no more danger in giving a horse the most hearty food in ten minutes after he stops, than in giving a man his most hearty meal as soon as he quits mowing in a hot day.
Let any one consult his own feelings and he may rid himself of the delusion that cating after violent exercise injures him more thanat any other times. It is violent exercise immeciately after eating, before the food has had time to change, that deranges the whole system and causes death. If any traveller objects to the cost of feeding on grain while on a journey; we answer that you pay no more for half a bushel of oats than for half a peck-for if you order half a bushel you buy at wholesale, and your landlord will charge you nothing for the hay. Suppose you pay double the wholesale price for onts, your horse keeping is then but fifty cents, in any country town in New England. And if you call for a half peck of oats with hay, you will find your bill not far short of that sum.

## Stage Horses.

These may be kept in a different manner from those that are on long journeys. They are always kept at home, and thei:tender have leisure enough to prepare their food for them.
Grain is the principal food of stage horses, but it is found economical to mix up cheap substances with it to distend the stomach, and to keep the horse in health. Cut straw, or cheap hay, mixed with Indian meal, is found to be excellent food for hard laboring horses; and as drivers have leisure enough to prepare it, this has now become the common food of such teams.
Thirty years ago it was the practice of drivers to give their horses meal and water on stopping for a few minutes to take breath. In hot weather it was no uncommon case to seo a horse drop suddenly dead in the street. On opening the stomach raw meal was found in cakes. The violent exercise to which these horses are subject, gives no time for the rich food to change. The horse connot vomit as a man and some other animals can, and he dies with a load on his stomach which he has no means to remove.
Show us one case where a horse has been injured by eating while warm, and we will show you a hundred where he has died in consequence of travelling immediately after cating grain. You have all eat hearty meals immediately after labor, and while in a state of perspiration, without injury, and you have all felt pain, on using violent evercise immediately after eatingr. Judge of the horse as of yourself, and you will judge rightly.
(From the Buston Cultivalor of Junury 18, 18.45.)
SECOND AGRICURICCRAL MEETING AN THE STATE house.
Subject-

## TIIE POTATO DISEASE.

IIon. Levi Lincoln in the chair, Mr. Teschemacher, of Boston, opened the discussion. Ife first read from a pamphlet published in Germany a few years ago, on this disease, which prevailed there to an alarming extent. There were many conjectures as to the cause of the disease, such as the manure, soil, \&c. Where the seed was cut the injury was greater, an affiection of the tuber commencing at the cut part.

He had made numerous examinations on diseased potatoes. The smell was like diseased fingus, and he was inslined to the opinion that this was the cause of the disease. Fungiare very fine particles of vegetable matter that float about in the atmosphere, imperceptible to the naked eye. He had examined many potatoes with a view to learn the cause of this disease. He inspected some potatoes in which the disease had just commenced. On cutting them open length-wise, he discovered small white worms, about onp-fourth of an inch from the skin. At that stage the disease had not affected the starch. From the depositions of these worms the cells became thickened, which gave to the potato its peculiar appearance in this disease. He tried to propagate the disorder by placing diseased halves of potatoes in contact with other halves that were sound. In five or six days no effect was produced, but in two weeks the sound parts had become contaminated; and in six weeks they had decayed.

Mr. Buckminster, of the Ploughman, remarked we had in September about two weeks hotter weather than had been before for 50 years, and this might, in part, be the cause of the disease. As it were more common when manure was in the hill, it shows the heat is a cause, as heat is produced by the fermentation of the manure.
Mir. A. W. Dodge, ot Hamilton, said that he had one kind of potato, the Blue, four-fifiths of which were diseased. He had raised these on his place for several years, and they had not been affected before. He furnished some of his neighbors with the same seed, and their crops were not injured.

He planted Chenangoes, and they were cut, but not affected with this disease. The disease could not be owing to heat, as Long Reds were never better. He was feeding swine with his disessed potatoes, and they had not been injured. It was not owing to the seed running out, for the Long Reds had been long among us. As salt prevents smut in wheat, and as potatoes have not been so much affected on the sea-board, where sea-weed and salt are used, salt may be a preventive.
Mr. Abel Gleason, of Wayland, planted 3 or 4 acres of potatoes on greensward. Some were rotten. He gave one or two bushels to nine hogs and they ate therr. Next morning one could not rise. He gave her half a pound of salts in new milk, and next morning she was well. He manured in the hill. A neighbour planted potatces adjoining him, only a fence between, and manured in the hill, and he had not one rotten one. The Veto potatoes rotted most. He thinks the kind of manure had some effect-where he used peat manure the disease was least.
Mr. Peter Fay, of Southboro, observed that the first he heard of the disense was in the first week of Septermber. His vines were then green, but soon they were diseased, and in 48 hours the tubers
were affected also. The disease commenced at the top, and proceeded downwards. Before the vines were afiected there was no disease in the potato. The malady was worst on old ground, and on low land. He had three varieties. 'lhe Blues were most affected, the Vetoes next, and the Long Reds were scarcely at all injured. He fed to stock those that were most affected, so did others in the town, and no damage was done.

Mr. Page, of New Bedford, inquired of Mr. Fay whether in any case the potatocs were affected unless the tops were discased, to which Mr. F. replied in the negative.

A gentlemen from Chester said that the vines seemed struck with a sudden blast. IIe supposed that it was occasioned by atmospheric influence.

Mr. Prince Bracket, of Sturbridge inquired whether potatoes planted early or late were most affected. Some of his neighbours planted early on dry soil and their crops were frood. There was no blast on the vines. This disease producing a sudden effect. The leaves on all wilted in a'single lay, and soon the potatoes were rotten. A man from Connecticut said that the carly planted were not so much affected.
Hon. Mr. Alien, from Plymouth Co., said that he would give the experience of a man in his county. He planted a field of potatoes, a part descending to the south, and a part to the north; both parts treated alike, and that part having the southern exposure, was much affected, and the other part was not injured. Great heat may have some effect, as the most injury was done where the heat was greatest. In sone parts the Long Reds were not affected, but in Plymouth Co., some say that this variety was most affected; but the Abington Blues seem to have sustained the most injury. He tho't that the best seed was from late planted, and farmers should plant some late for that purpose.

Friend J. M. Earle, of Worcester, remarked that he travelled considerably last fall, and he made many exquiries as to this disease, and examined diseased potatoes in many places, and all seemed to argue that those planted early generally escaped. Chenagoes were much affected. He did not think that great heat occasioned the disease, for we often have greater heat in July and August, to which early potatoes are exposed, than at a later period in the season; of course early planted are exposed to the most beat. The disease was considerably developed before the warm weather in September. In some cases part of a field of potatoes was lilled while the rest escaped.

Hon. Mr. Dillingham, of the Senate, said he tho't that salt would have no good effect. He planted an acre, using sea weed, kelp, and barn manure. The potatoes were all dug at the same time, and appeared good. They were put in the cellar. In three or four weelis, on boiling them, it was found that the Long Reds were much affocted, and turned black under the skin. They were all overhauled, and the Long Reds were much diveased, and the Rohans about the same, but the Chenangoes were not injured. The principal part of the sea weed and kelp were on the part planted with Long Reds.

Mr. Cole, of the Cultivator, stated that after all that had been said we had not discovered the cause of this disease. What appeared to be a cause in one case had no effect in another. He had for some time thought that it was occasioned by atmospheric influence, which could not be explained, as he stated at the previous meeting, in the same manner as diseases which affect mankind and animals. Some persons is pre-disposed to disease, and are affected, while others escape. So some varieties
of potatocs are hardy and escape this disease, while others are tender and pre-disposed to it. This is not owing to old varieties; the Dean potato, called also the Veto and Abington Biues, is more affected, generally, than the Long Reds, which have for a long time been among cs, whle the Veto has been more recently from the seed. The reason that early planted potatoes vere less affected, is because this blight prevailed late in the season. Many things assigned as causes are only predisposing causes. He had found from experience that potatoes planted late were best for seed, and grew the most vigorously.

It is important to find preventives of the disease, though probably no complete remedy will be found. Hardy varieties should be preferred; seed from late planting, if not affected will be best. Plaster may be useful. Mr. Everitt stated the other evening that the injury was least when plaster was used. A Mr. Netterville or New Jersey found that his potatoes were affected in 1843 after put into the cellar and so he picked out those that were affected and put half a peck of slacked lime to each layer of the others and they kept well. On planting last spring he put a table spoonful of lime in each hill, and after they were up, and before hoeing, he applied to each hill about a gill of a mixture of lime 2 bushels, plaster 3, and ashes 8. He had not one rotten potatoe in the full, while those of his neighbours were much diseased. Although lime may not be a complete remedy, it may have a favourable effect.

Mr. Thomas Kempton, of New Bedford, observed that seeding potatoes had been equally affected with others, that the disease commenced at the stalk and progressed up, late planted had been most injured.

Hon. Mr. Foote, of Berkshire Co., said that Wm. Patridge of New I'ork City, well known as a good practical chemist, in preparing a piece of sandy land on Long Island for potatoes, mixed with the surface soil a large portion of pulverised charcoal, and he had a good crop, and none were diseased.
The President remarked, that the whole discussion reminded him of the remark of an old physician who was on consultation in a case of spotted fever, and having examined into the case, and his opinion being required, said "It is death ;" so from all that has been said on this subject, it only appears that it is death to the potato.
Remares-Although the discussion has not led to a discovery of any definite cause of the potato malady, yet, it has shown that inany supposed causes, were not true, and it may prevent many from being led astray by false suppositions. It shows conclusively, that in most cases some varieties are more hardy or less predisposed to the disease than others, and from what has been said, and from what has been done many persons will be aided and stimulated in further investigations, and farmers will have more light as to using preventives of the disease, or something that will in some measure have a conservative effect. Hoping that good would grow out of the discussion, in regard to the nature and operation of the avil, and the mode of applying remedies, we have reported it at length, for the subject is of great public importance, and should deeply interest every individual who raises or eats a potato. The true cause is doubtless atmospherical influence.

Idmeness.-There are but few who know how to be idle and innocent.-By doing nothing, we learn to do ill.

HOE OUT YOUR ROW. a farmen's song.
You've a hard row to hoe, noble knight of the sod, But to toil in the earth is the mandate of God; And if by the sweat of your brow you must win Your bread, it is time, it is time to begin;
'Ihen go to, go,
If your bread by the sweat of your brow you must win, Hoe out your row.

In the rough row before you, though rugged the sonl, 'Twill repay in due season the culturer's toil; Though wild grass and weeds so profusely abound, Perseverance and patience will mellow the ground; Apply the hoe,
Perseverance and patience will mellow the ground, Hoe out you: row.

Though the young tender plant is now fecble and pale, Let not faith in the promise of larvest time fail; Nor deem you are tired, as a motive to stop, If you would be sure of a plentiful crop; Your progress, though slow,
If you would be sure of a plentiful crop, Hoe out your row.

Let it never be said that you lagged on the way, Or that idly yon turned from your labor to play; Nor heed wind nor weather, nor yet burning sun, But go abead manfully till you lave done; Quick wield the hoc, And go ahead manfully till you have doneHoc out your row.

Soon, soon slall tho tender plant broadly expand, And loftily rise 'neath a cherishing hand; Already, methmks, greener, fairer it looks-
Then carefully nurse its young delicate shoots, And bid it grow;
Then carefully nurse its joung delicate shootsHoc out your row.

I admit that your row is pecaliarly hard, But bountiful Heaven insures your reward; I own it is long-but believe me, my friend, If you hold on your way, you will come to the end;

With certainty know,
If you hold on your way, you will come to the endHoe out your row.

When done, you may rest; while with pride and with joy, You beholi, the result of your useful employ; And reflect that even toil hath a blessing and charm, It nerves the free sparit-adds strength to the arm; Then speed the hoe-
With invincible spirit and vigorous arm,
Hoe out your row.
Bold Teoman, proceed : and when finished your task, You then may presume Heaven's b!essing to ask; And the Author of Nature win graciously smile On firm perscverance and virtuous ton;

Then go, man, go,
With firm perseverance and virtuous toil,
Hoe out your row.

## RECIPES.

To destroy Rats.-The following recipe for the destruction of rats, has been communicated by Dr. Ure, to the council of the English Agricultural Society, and is highly recommended as the best known means of getting rid of those most obnctious and destructive vermin. It has been tried by several intelligent persons, and found perfectly effectual.
" Melt hog's lard in a bottle, plunged in water heated to about $150^{\circ}$ Fihbrenheit; introduce into it half an ounce of phosphortus for every pound of lard, then add a pint of proof spirit or whiskey; cork the bottle firmly after its contents have bren heated to $150^{\circ}$, taking it at the same time out of the water-bath, and agitate smartly till the phosphorts becomes uniformly diffised, fornung a milky looking liquid. This mixture being cooled, with accisional agitation, at first, will afford a white compound of phosphorus and lard, from which the spirit spontaneously separates, and may be poured off to be used again, for none of it enters into the combination, but it merely serves to comminute the phosphorus, and to diffiase it in very tine particles through the lard. This fatty compound, on being warmed very gently, may be poured out into a mixture of wheat flour and sugar incorporated therewith, and then flavored with oil of thodium, or not, at pleasure. The flavor may be varied with oil of aniseed, \&c. This dough being made into pellets, is to bo laid in rat boles. By ats luminousness in the dark, it attracts their notice, and being agrecable to their palates and noses, it is readily eater, and proves certainly fatal. They soon are seen issuing from their lurking places to seek for water to quench their burning thirst and bowels; and they commonly dic near the water. They continue to cat it as long as it is offered to them, without being deterred by the fate of their fellows, as is kiown to be the case with arsenical doses. It may be an easy guido for these who are desirous of following Dr. Ure's prescription, and may not have a thermometer at hand, to know that a temperature of $150^{\circ}$ of Falırenheit is equivalent to a degree of heat, midway between that at which white of eggs congulates, and white wax melts."

Simple Cure for the Croup.--I'he Journal of Health, says: "When a child is taken with croup. instantly apply cold water (ice water, if possible,) suddenly and freely to the neck and chest with a sponge. The breathing will almost instantly be relieved. So soon as possible, let the sufferer drink as mach as it can; then wipe it dry, cover it up warm, and soon a quict slumber will relieve the parent's anxicty, and lead the heart in thankfulness to the Power which has given to the pure gushing fountrin such medicinal qualitics."

Buckwheat Cakcs.-To three pints of buckwheat four, mixed into a batter, add one teaspoonful of carbonate of soda, dissolved in water, and one teaspoonful of tartaric acid, dissolved in like manner; first apply the carbonate, stir the batter well, and then put in the acid; thus the use of yeast is entirely superseded, and light cakes are insured. One great advantage is, that the latter is ready for bakiag as soon as made.

Another, considered superior to anything of the kind.Dissolve a teaspoonful of super-carbonate of soda, in a sufficient quantity of sweet unskimmed milk; three teaspoonfuls of cream of tartar, with a heaping quart of flour mixed dry and well rubbed together; then mix up the whole and bake immediately. If milk is not at hand, water will answer, slightly sweetened with sugar, and a liti. shortening added to it. The flour aud all other materials, must be of a first-rate quality.

Remedy for Worms and Insects in the Stomach of Calves.-Take i pint of spirits of turpentine, 1 pint train oil, 2 oz . spirits of vitricl, 2 oz . asafœtida, 2 oz . hartshorn. Mix the whole together in a bottle, and shake it well before it is resed. Pour a table-spoonful of the mixture down each nostrif of every calf, for three successive mornings; the calres must be kept fasting the night previous to giving the dose. Should the first trial not succeed, repeat tlie doge in the course of a week.

ORGANIC MANURES.
[The subjoined paper on munure is copied from the . Worthern Whig, chiefly because it supplies plain and intelligible information on a subject of great practical importance.]
Farmyarl mamure is composed of ingredients from the mineral as well as from the animal and vegetable kingioms. In the vicinity of large towns the dunghill is usually made up from the stable, the cow-house, and the street; and as there is a very material difference in manure from these different sources, it seems better to consider thernse-perately-by which method it will be casy to determine whether, in any particular case, they had better be used singly or conjoined. For oruinary purposes, there is no doubt about the propriety c: mingling intimately all these linds, though, at the same time, it is well to be aware of the peculiar advantages of each, that they may be used separately, if desirable. Besides, near large towns, where a choice of manure may be had, the farner should purchase that kind which best suits his soil, and the crop to which it is intended to be applicd.
Stable Maizure, moderately rotted, contains a large quantity of organic matter, scluble in water, hand, consequently, fit to yield immediate nutriment to plants. It tiso contains a large proportion of organic matter, of ready solubility, which would therefore, in a short time, be capable of furnishing nutriment. It contains, besides, in small quantity salts of mmunoria, potash, soda, and lime, all valuable fertilizers. The organic matter being regularly dispersed through the rasss, renders it uniform in its "effects. It is also casily incorporated with the soil. "These quadities render stable manure very valuable. As it contains organic matteralready soluble, ic does not require wuch fermentation; indeed, that process, if allowed to proceed too far, renders it nearly inert, in consequence of the conversion into gas, and evaporation, of some of its most valuable ingredients. It continues to afford food to plants gradually, for a considerable time, in consequence of its containing a large quantity of organic matter that readily becomes soluble. From its great tendency to decomposition, it is much better suited to heavy than to light soils; for in consequence of the easy access of air and moisture to lands of the latter description, manures ferment much more rapidly, and are more quickly exhausted, in them, than in what are called strong or clay soils.
Dairy Manure contains less soluble matter than that troin the stable. It putrifies much less quickly ; for, though it contains rather more organic matter, it has not the same iendency to become soluble. It was, on this account, said to be colder than stable dung, by the old agricultural writers, who, lnowing little of chemistry, looked to the effects produced, without lnowing anything of the causes. The salts in this are pretty nearly the same as in stable dung; at least in effect. It also is easily incorporated with the soil. From the condition of its organic matter, it will not be so forcing at first, but will be more permanent in its effectst for, in consequence of its slower solution, it will continue to supply nutritious matter for a long time. For the same reason, it is less likely to be injured 'by excessive fermentation. This, indeed, ought $n^{+}$ to Te allowed to occur in any case; for it should always be remembered that the hemical changes in manures, that render most servipe to plants, take place during the earlier periods of putrefaction. Besides, most green crops, especially turnips, if forced forward vigorously in the early neriod of
their growth, will take pretty good care of themselves afterwards.

Street Manure is very variable in its composition. It usually contains a large quantity of silicious matter; coal cinders and ashes form another large portion, with line from walls, \&c. It owes its chief fertilizing powers, however, to the uight-soll it contains, from which is produced a large supply ofnitrogen. The proportion of orgaric matter in it is very variable. . Sulphur and pronide of iron are generally found, in it, both of which, especially, the latter, are dangerous ingredients, except there be a large portion of lime in the manure or in the soil. The salts and organic inatter are not regularly mixed in the mass: in consequence of which it will be partial in its effects. From these observations, we may infer, that dairy manure is best for light, and stable manure for cold heavy lands' and that street manure is commonly much inferior to either, especially for potatoes; though, from the night-sail it contains, it might produce good turnips. Stable manure is good for turnips, but that from the cowhouse is the best of all for potatocs, which, containing 32 per cent. of nitrogen in tha leaves, and 37 per cent. in the tubers, require a largesupply of nourishment, es. cially at the advanced period of their growth, when the tubers are formed. The turnip contains only 17 per cent. of nitrogen. As however, these and other manures are commonly combined in the same heap by the farmer, it is of inportance that they be carefully mixed, else the crop will be irregular. Sir H. Davy has shown, by direct experiment, the great loss sustaimed by manures undergoing putrefaction. Mr. Blackie, in his valuable essay on farm yard manure, says, that stable dung often loses from 50 to 75 per cent. of its value by excessive fermentation. The loss of ammonia, which, from its great volatility, escapes first, may be easily demonstrated, by holding a feather, previously at $\mu_{2}$ ped in vinegar or muriatic acid (spirits of salt) over the fermenting manure. The ammonia combines with the acid, forming a white cloud. This ammonia, which is the chief source of nitrogen, is brought back to the carth by rain, though seldom to the place it left, so that the careful man koeps all his own, and at the same time gets a share of what belonged to his indolent neighbuurs. 'To prevent this waste, the manure heap should be consolidated, by drawing the carts over it, or by allowing cattle to trample it. What is made in spring might be thrown loosely together, that it might be ready in shorter time; but manures for potatoes are generally quite too much decomposed. Many substances have been recommended, to be added to the dunghill, for the purpose of fixing the ammonia. Among the best is selphate of lime (gypsum), in fine powder, by which means we obtain carbonate of lime (chalk,) and sulphate of ammonia, a valuable manure, and much less volatile than the carbonate of ammonia. Besides, should any gypsum remain undecomposed, it also has its uses. Common sait (muriate of soda) is recommended by some. By using' it, we get muriate of ammonia (salamoniac,) an excellent fertelizer and carbonate of soda, also very valuable. Sulphuric acid, diluted' with nine or ten times its weight of water, has been brought forward, under high auspices, as a fixer of ammonia, and indeed it is highly probable that it may succeed admirably. The few trials, hitherto made, are said to have been successful; but further experiments are required. The better the food of cattle, the richer is the manure. About 30 tons of tolerably fermented dung is the ordinary allowance for a Scotch acre of potatoes. More is required for sandy, lesss for clay
suils. Of police dung, more generally is required to produce the same result. No kind of manure acts well on wet ground, the water prevening the access of aur, and thercby obstructing the changes necessary to render the manure soluble. Un light dry land, especially in dry seasons, and with potatoes that produce their tuhers near the surface, there is a great advantage in planting the sets first in the drilis, and then spreading the manure over them. In an experiment made last season, with great care, on sandy ground, mauured with fully 40 tons of good dung to the Scotch, acre, the produce was, with the sets placed over the manure, 224 cwt 2 grs. per acre ; and, with the sets under the manure, 270 cwt. per acre. Une man additional is required, in applying the manure in ths way, as more care is necessary in putting it in; but this expense is nuch nure than counterbalanced, by the better quality of the crop, and by the freedom from loss, by exposure to the sun and frost.

Composts.-Of tine various substances used to make composts with common dung, peat earth seems to have succeeded best. One or two parts of dung are mixed with three of peat, in alternate layers. This, after one or tro turnings, and time for moderate fermentation, becumes a rich mass, valuable for all soils, except those of its own character. In using peat as a manure, the lower strata, which seem to have been deposited from a solution in water, should be used rather than the upper, which consist of more recently decayed regetables, ery low in the scale of organization.-Peaz earth, from the upper strata of bogs, unless fermented, produces a variety of sour weeds, not easily eradicated. Nixing lime with farmyard manure is a most pernicious practice. The lime attracts the carbonic acid, causing the ammonia to fly off, and rendering insoluyble and nearly useless some parts that were before its addition soluble and vajuable, and leaving a dry and comparatively useless mass.

The Erine of domestic animals is a very valuable fertilizer. In snme parts of the continent, the solid parts of animal excrements are mixed with the fluid, and water added, to make the mass liguid, and in this state applied to the land. It is, howerer, generally kept in tanks till it has undergnne a certain degree of putrefaction, which reguires about four or five weeks, when it is considered fit for use. A very good method is to allow it to flow into a pit contaning peat, which absorbs a large quantity. Afier this it is fully saturated, and then allorred to ferment for a short time, it forms a very grod manure. The fluid that exudes from the dunghill should ether be returned to it, or used in some of the ways mentioned above. It is valuable for all crops.
-Virht Soil-The value of night soil as* a manure, is now, perhaps, universally admitted. It has been for a long time, extensively used in China, and in most parts of Fumpe. Most of its components, as the animal matters, phosphate of lime, phosphate of soda, \&ion, are, by themselves, very valuable. By the lars of China, no part of human excrements is allowed to be thiown array. The Chinese manure cakes are composed os night soil and marl, dned in the sun. In this state it is sold to the farmer, who uses it elther in porder or dissolved in water Night soil has been estimated by some as equal to six or eight times its reight of stable dunt- Mr. Dixnn, of Lancashire, who secommends it to be mixed with dry peat carth, says it is morth a formur's while in po twenty miles for it. The Craigintinny meadorrs, irrigated from the seners of Edinbuigh, prodace ofter six
crops in the year, and some parts are let at $£ 330$ per acre, rent. Land in the same vicinity, which, a few years ago, consisted of loose sands, growing nothing but whins, by the same means have been converted into meadows, let at $£ 15$ to $£ 18$ per acre, annually. In Paris and London manures are prepared, of which this is the basis. When simply dried, it looses about 70 per cent. of water. Davy advised it to be mixed with lime; but that expels the ammonia, causing great waste. The same objection holds against the Chinese method of mixing with marl, which contairs lime. Recently prepared and fincly powdered charcoal, or peat ashes, are much better as they destroy the odour, as well as the lime, and absorb the fluid parts, without dispelling the more volatile.

Pottevin's Disinfected . Manure is prepared at Whitechapel, by mixing night soil with a considerable quantity of recently prepared charcoal powder, and then drying the mass in a very gentle heat. It is chiefly used for turnips. From 13 to 15 bushels are considered equal to 10 bushels of bones. It is best suited to sandy soils. Price, in Londnn, 13 s .6 d . per quarter of 8 bushels.

Bones have effected a greater improyement in agriculture than any manure introduced in modern times, though guano seems likely to rival, if not to supplant, them. At present, in addition to all the bones collected in Great Britain, a large quantity is yearly imported, the declared value of which, in 1821 , was $£ 15,898$; in 1827, $£ 254,600$. The chief ingredients in bones are cartilage and phosphate of lime (commonly called bone earth,) but there is nothing in their composition which is not direct constituent of vegetables. In some places farmers prefer unboiled lones; in others, they buy as readily those from which the fatty matter has been extracted. As the various phosphates that have been tried have pronluced good urnips, it has been thought that the phosphoric acid is the grand manure for turnips; and, accordingly, sulphuric acid (vitriol) has been added to bones, with, it is reported, perfect success. In this case, the vitriol unites with the lime of the bones, forming gypsum, and leaving the phosphoric acid free. They are most useful on light, dry, sandy soils-next on limestone and peaty land; but on the strong clay or wet ground of any kind they produce little benefit. Some recommend that the bones should be mixed with three or four times as much earth; but, at any rate they should be allowed to ferment for a short time before being used. They have been applied as a top-dressing to grass, wheat, \&-c, in dust; but it scems more useful for turnips than for any other crop, though it has also succeeded very well Fith potatocs. The feeding quality of turnips, raised from bones, is said to be superior to that of turnips raised from dung. The quantity used by the acre varies from fifteen to forty bushels. For the turnip crop, a bushel is considered equal to a ton of wellmade manure. An excellent method is, to use dung, and to drill in with the seed bones mixed with earth. In consequence of their high price, they are occasionsily adulterated with lime that has been used in tan-works, old plaster, soaper's waste, saw-dust, rotten rood, ojster shells, \&c. The best remedy is to purchose from a respectable merchant. The average weight of the bones of a fat cx or shecp is one-fourin of the carcass, wanting the offal.

Bran, the ashes of which contain nearly 50 per cent. of phosphate of lime, has been used as manure for turnips. In lR42, an excellent crop was grown on bran, or pollard, alone. The ground on Which it was used hes siace produced a rery grod
crop of barley. The progress of the turnips, on the bran, was slower at first; but towards the end of the season they could not be distinguished from those grown on hones or dung. It was sown by hand, near the top of the drill, and the seed placed in contact with it. About 18 cwts. were used to the Scotch acre, which at 3s. per cwt . for pollard, would cost about $£=10$ s. the acre. As a large quantity of bran is used by the calico printers, would not the refuse make an economical manure for turnips?

Rapt. Cake or Dust is an oily fertilizer. It is much used for turnips, for which it is admirably adapted, especially on clay soils, and in wet seasons. It is also used to wheat, and is said to be noxinus to the wire worm. Its beneficial influence scarcely extends beyond one year. When one part of rape dust is mixed with thirty of common manure, it improves the latter very much. Rape cake costs about $£ 6$ and rape dust about $£ 7$ per ton. Five cwt. to 8 cmL . is enough for ar acre.

Soot is a mixture of various matters, chiefly charcoal, with carbonate and sulphate of ammonia. These last are very valuable fertilizers; and the charcoal, by combining with oisyen, forms carbonie acid gas, which is absorbed by both leaves and ronts of plants. It is used at the rate of twelve to thiity bushels per acre, to grass, wheat, \&c. It has been recommended as more effectual and economical, to dissolve six quarts of soot in a hogshead of water, and apply it to the ground by a water-cart. A better plan, perhaps, is to mix equal quantities of soot and fine earth, and to riddle it over the ground, one man filling the riddle, by a shovel, from a cart or barrort, while the other shakes it over the ground. Its best to spread it in rainy or damp weather, ubout the ens of March or in April.
Ashes may be divided into those derived from recent vegctables, and those from vegetables which have undergone considerable clanges by time, as peat and coal. In the former class are included those from wood, weeds, and all kinds of vegetable rubbish. There, is, however, a great waste in burning weeds, \&c., as we thereby destroy the organic matter, leaving the least valuable parts only, behind. All such materials, therefore, should when practicable, be formed into composts, with lime or with salt, or with both combined, in the proportion of two parts of lime to one of salt. As we have in ashes, matters which have already been absorbed by plants, there is no doubt about their efficacy, since they can unquestionably be reabsorbed, especiably by similar crops, under ordinary circumstances. Ashes of vegetable origin always contain a considerable quantity of potash, which is hence called the vegetable alkahi. Potash acts on the insoluble organic matter in the soil, rendering it soluble; and also, in various combinations, is supposed to enter directly into the coroposition of plants.
Wool - 2 shes vary greatly, according to the kind of wond from which they are obtained. As, however, they cannot be had in this country, we need not occupy our time with them; though from the salts of potash, Jime, and soda they contain, there can be no doubs of their value.
ficlp, or ashes of sca-weed-a rety impure carbonate of soda-has been used as manure, being much cheaper than formerly. It has been recommended to be burnt at a low temperature; by which means it would be obtained in a state of pomder, and be rich as a manure.

Pcat Ashes, though variable as the squrces from which they are obtained, always contain gypsum as their cheif and most useful ingredient. There are present other salts of lime, as the plosphate and carbonate, with a small quantity of the salts of putasl and soda, besides chareoal. They are chiefly used used as a top-dressing to clover and grass, wheat, \&c., at the rate of four to five tons or more, -per acre.

Coal Ashes are nearly the same in effect, when rell burnt, as peat ashes; but the half burnt coals, or cinders, are of litte use, except for opening heavy clays, or for condensing ammonia. These, also, owe their chief value to gypsum and limepartly, also, to soda, which is derived from the sea salt gencrally present in our coal. They are often used as a top-dressing to grass lands over-grown with moss.

Burnt Clay is often used as a manure. It acts, by rendering the soil nore porons, and by absorbing the ammonia, which it gives out, by degrees, to the crop.

Sea Heed is much used, in some localities, for potatoes, but it needs to be applied quite fresh, or else to be formed into a compost with earth. About thirty tons are used to the acre.

Oreen's Animniized Carbon is like the Disinfected manure. One ton at $£: 3$, is equal to 25 bushels of bones, and is best for light lands.

The ITrate of the London Manure Company is formed by mixing recently prepared charcoal, in fine porder, with solid and fluid feces. Mr. C. W. Johnston, who inspected the manufactory, speaks very highly of this manure, and of the care with which it is prepared. One ton, at $£ 5$, is sufficient for three acres of land. It is said to be at least equal to bones for turnips, and is much used as a top-dressing to wheat. It should not be placed more than two inches from the surface. Mr. Johnston says, its good effects on soils continues for three or four years. Liebeg says, that night soils from towns where much animal food is used, is much richer than that of peasants.

Guano (or Quano, as it is called by Sir J. Sinclair, in his Code of Agriculture) is the putrid excrements of sea birds, mixed mith bones, \&c., found many feet in depth, on some islands on the coast of Peru. There are three kinds, white, red, and dark grey. The first is considered the freshest and purest, and fetches the highest price. As we obtain it here, it is a brown or fawn-coloured powder, which blackens when heated, giving of strong ammoniacal fumes. Leibeg says, that the soluble substances in guano amount to half its weight. Johnston says, that sometimes 70 per cent. of the brown giano is soluble It is usually mixed widh a considerable quantity (five or ten times as much) of dry turf mould, or fine earth ; and after remaining a fer days or reeks, and being carefully turned, is fit ior use. Sulphate of lime is sometimes added, for the purpose of fixing the ammonia. The adrantage of this is doubiful, especially in the case of turnips, as it is probable that the more abundant the supply of ammonia the more rapia their growth; and all farmers of any experience know how advantageous it is to force turnips forward at first For turnips, it is sometimes sown broad cast, and then the drills are formed with the double mould board plough, sometimes placed in the bottom of the diill, or sown in a littie hollow made in the top of it In any case, turnip seed will not vegetate if in contact with it in the unmixed state. Last season it produced in different cases betier Iturnips than either bones or common mazure, In-
deed, the mancrons experiment made with guano mequivocally phace it among the best, if not the very best, manure for turnips. Potatoes may be planted on the misture, cither in drills or in ridyes. In an experiment made last spring, in connection with that reported under the head of farming mamure, guano, used at the rate of $\overline{\mathrm{c} w}$. to the Englisla acre ( 133 cwt . to the Scotch acre) produced at the rate of $w 2 \mathrm{cwt}$. 2 4rs. per acre; common dung, under the sets, producing 254 cwt 2 grs . and over the sets, 270 cwts. The stalks on the guano, from their first appearance, were of a deeper greentint than any in the field, which they preserved till they began to ripen. They were ripe about two weeks earlier than those planted at the same tirne. They did not seem to be specifically hearier than those grown on common dung. The Potatees on guano, and under the common manure, were firmer and drier than those grown in the ordinary way. It is highly probable that it would be suitable for early potatoes. It has been tried on all soils with success, especially in a damp scason. In recent reports it is stated that the effects of guano continue for three or four years. Doctor Brett, of the Jiverpool Royal Institution, analyzed many samples of guano, and found the phosphate of lime to vary from lif to 47 per cent. The salts of ammonia he found to be the muriate phosphate, and oxalate.
Fish of warious kinds have been used as manure, but there are fer places where they can be had cheap enough. Those mest employed abound in oil. Their cffect is very transient, lasting but for one crup. They are cumumly formed into a compost before being applice.

Hioulen Ruass, which contain a large quantity of albumen, with lime, \&c., are an excellent manure for hops; also for wheat and turmips. Twenty thousand tons are ammally used in the south of England. They are chopped swail, and sown by land, at the rate of 12 cwt. per acre. Price $£ 4$ to st 10s. perton.

## SEA-WEED AS A MLANURE.

The crops on the Isle of Thanet are superior to the crops grown in the Inland countries; and having travelicd much by our railroads, I should sajo euperior to any crops in the conntry: What is this surperiority attributable to? There appears to be anthing vere peculiar in the soil, and there is nothing jeculiar in the rotation in their crops. I may be mistaken, but I attrbute the superiority of the crofs to the system of forming their dung freaps, and the use of sea-weed as manure. The farmers on the island form their dany-heans with alterante layers of sca-weed and farm-ward dung ; and after raising their heaps to the height of eight or ten feet, thes cover the whole with a layer of cight or ten inches ofsea sand. The sea-weed contains a portinn of sea salt and fish, and on heating becomes rery protid and oficnsive. It may be dif. ficult to analyse the compost of sea-weed and horse dung but it may be well to collect the liquor that onzos from the hraps, and hare it analysen, when, I suspect, it will be found to correspond with guano in cssentials. There is no doubt about its effect on iand, for the wheat, in point of straw an car is so very superior that it cannot be improved in quality and guantity; and it onlv inmains to be ascecrtained wheather guann, or any other substance, in point of eronomy has auy superiority. It is a mistaken notion to suppose, that, hy any contreance, Whraz can be increased to any extent in a linuted portion of land, or that more than a certain limited quantuty
of stallis of corn can be raised; every farmer knows that when stalks are too near together, they rot and decay. The great object to be sought is a healthy growth of straw, with a tine large ear, which shall yich a plentiful supply of goud sound Corn; this result is attained on the island of 'Thanet. I was induced to inugure what was the cost of collecting sea-weed on the island of Thanet, and was imformed that the price paid at this season for it to the collectors of the weed was Gid. a carlload in its wet state ; this cart load requires two strong horses to draw it, and may weigh considerable upwards of a ton; but when properly dry, it may lose half its weight, and much of its fertilizing qualities. The farmers remove in its wet state to their compost heaps, and do not lose its fertilizing juices. I am induced to trouble you with these few observations, that our agriculturist may furnish employment to a very usefal class of our subjects who, in winter, have litule or no employment-I mean the boatmen of our sea-ports, who would be, too, happy to collect the sea-weed, and deliver it at the terminus of our railroeds at probably fd. perton; for this is the price paid by the farmers to arriculturists in the island of Thanet in the summer season, when other emplujment is obtainable; and, of course, in the winter, when there is little or no work going foward, and when the sea-weed is deposited in the greatest quantity, from the sea being rulled and storny, our boatmen would be, too, happy to obtain the employment on the sane scale of wages. I am of opinion that the sea-weed might be pressed, by the aid of machinery, into a convenient compass, to render its transport by ouir railroads and our ships not very expensive; and when our merchants are sending their slips to the Sonth Sea for guano, they would enter into the specuiation of conveying the seaweed from our island sandroads if the cost of the freight from our sea coast to the terminus of our railroads leading into the inte.ior of our island would be resiised.-Corrcspondent of Mark Lane Erpress.

Impravfinget my Draining Land.-We had the pleasure, last weel, of witnessing the effect of draining on an extensive scale, on a farm we sisited in the County of Worcester. The proprietc: had in his possession a lot of land of about 40 acres, 30 of which was an unproductive boggy meadow and swamp, so level that, to all appearance there was but litter prospect of giving it a thorough draining. or of its ever being made capable of produring ennugh to pay for any effort in subduc it or bring it into cultivation. Its situation was near the phace where the gentleman was about to erect his dwelling house, and from which he would have a constant view of this unproductive tract; and furthermore, the fings and dampness from it would be prejudicial to health. He therefore determinerd to undertake the ardunus task of draining, sibhluing, and ennverting it intn gonal grass land. In doing this, he had, no doubi. four objects in view, viz: mumorement in the apprarance, health, profit, and example. He made a begmning about fire years suce, without experience and wihout knonledge, except what he had gleanel from agriculural books and newspapers, white engared in trade in the city. With these qualifications oniy, it was natural in suppmse that the old farmers who had from there carliest years been familiar with the manual labour of the farm, and had from year to year followed in the steps of their predecossans, would watch the operations of a "bonk farmer," with a dispostion to undervalue and ridicule thr "new fangled notions" of one so inexperienced.

When he had made a beginning, and could already show his acres of land reclamed, producing a heary burden of grass, it was prophesied that it would not last-it would go back again, the coarse grass would anpear, Suc. But notwithstanding these prophecies and remarks, he still persevered, and now nearly the whole 30 acres have either been subdued, or so far drained. that the remainder to be done is comparatively small to what has been accomplished. He has already cut at least three miles of ditches, and so fur drained it that most parts of it are accessible. Four acres were turned over with the bog-hoe the last season, and large piles of wood have been taken from the swamp, which bad been burned perhaps for ages. Some parts of the weadow were scarifed and seeded down to grass witiout being ploughed, and have produced good grass for a number of successive years. Sure enough the coarse grass had made its appearance in some spots, but this only indicated that the cold springs that saturated the soil had not all been reached and cut off, and it was found necessary to do over some of the work in a more thorough manner. Ditches were cut on the margin of the upland; the main branches were Eunk deeper, so that the water was reduced a foot lower throughout the whole meadow, and at the present time, the greatest difficulties appear to be overcome, and the proprietor has the satisfaction of feeling that his labor has nict been in vain, and the time is not far distant, when he will cut on every acre of this land $2 \frac{1}{2}$ tons of good hay, that is to say, 75 tons, where very litte was produced before. "But the expense is yery great, and we cannot afford to lay out so much on our meadow." is the cry with some, and at the same time they will purchase upland, that at its best state, will not produce more than two tons to the acre, and pay at the rate of 75 or $\$ 100$ per acre for it. Now why not be at the expense of 50 , or even 75 dollars per acre in reclaiming a swamp, which is not worth $\geqslant 10$ per acre in its originai state, and that will never fail, when well done, rather than purchase the upland, that produces less hay at greater expense per annum than the meadow? By draining swamp lands, also, you abate a nuisance to the coinmunity, and cut off one of the sourees of discase from the noxious vapors exhaled from their surface. We noticed immense compost heaps, in course of preparation for the upland, uhe materials of which were taken from the ditches, so that part of the expense of draining the meadow must be charged to improving the highlands.
As this gentleman keeps account of expenses incurred in draining the meadow, and as he is disposed to give the public the bencfit or his experience, we shall be enabled, no doubt, at some future tume, to publish the particulars of his operations.A: E. Narmer.

Compost Making.-Joseph Mangle, in the Boston Cultivator, says:- I conscientiously belicse that no expenditure of capital can at all compare in profitable return with money put out at interest in the accumulation of articles with which to form compost heads. Every farm out to have thiee of these heaps, at the same time -one being formed, one just finished, and a third reads for carrying abroad after the necessary turnings and mixing ind pulverisations, have been giren to render the mass fit for the immediate food of phants; then it might be employed cither as a top dressing for meacow or pasture lands, or be plowed lightly in for corn, grain, \&c.., thus adding a staple to the soil and eperating at the same time
both chemically and mechanically; and no one would really believe the case and facility with which about a couple thousand loads of compost could thus be collected together, it the business were to be regularly conducted through the sthute year. But here is a staternent which exthibits the fact in a light that strikes every one at first sight.
Suppose, then, a man and ox-cart should be emplayed for 250 days in the ycar, collecting banl: earh, tussocks, leaves, weeds the parings and scrapings of highways, swamp mud, opeuings of ditches, and refuse articles of every find, and to carry but six loads a day, throwing $u_{p}$, the miterials and spreading them completely over the heap at the close of every day's work. Why here would be an accumulation of 1 HOU loads at the year's end. And allowing 50 cents a day for the man, and as much for the oxen, the cost would be $\$ 250$ or 70 cents a load; carrying, mixing and piling included. Now if we consider that this enormous accumulation would be an addition to the means afforded by the barn and cattle yards what can more clearly prove, that capital so expended io money at compound interest? And again, if as the carts were emptied the mass were mixed with the stable manure, in the proportion of one load of dang to tiree loads of muck, © E.., and after fermentation, the whole were turnel over and pulverised, and mingled with a good solution of lime, why, the advantages could scarcely be calculated. And it may be inquired whether this mode would not be far preferable to sending the team many miles to town for a lond of stable dung the cost of which and carriage would be equal to about 10 loads of this compost.
It may be safely laid down as an axiom, then, that the aforesaid man and yoke of oxen would yield more profit by their labor than any half dozen teams otherwise engaged on the farm.
Few persons are aware of the fact, that the oftener the compost heap is turned over and pulverized, the richer its contents become. To carry abroad muck from the heap before it has leen properly aunalgamated by frequent exposure to the atmosphere by turning and mixing, is to hrow away more than one-half the profit to be derised from the system of composting."

Healti and Comfort.-To prevent cold feet, wash them frequenuly, and rub them throughly with a coarse cloth; this removes obstructions fro:n the pores, and produces a healthy state which is conducive to warmth. When the feet appear clean, the pores may be obstructed and the perspiration impeded so as to produce discomfort, and in some measure injure the health.

To prevent. cold feet.at night, in addition to the above cleansing process, take off the stockings a short time before retiring, and with them rul the feet hard until they are not only warmbut begin to feel hot This will greatly add to pleasure and health, which, in many cases, greatly depend on things which may to some appear trifing.

To keep the feet dry, use good stout boots or shocs, and stuff the leather, upper and lorer, full of some water-proof composition. Tar is a crond ingredient, as it will bend and not break. Two parts of tar, tro of beef's tallow, and no of bees' wax, make a good composition for broots and shoes Apply it quite warm, and warn the leather that it may penetrate. $A s$ farmers are frequently expesed to wet, they shuikd be carefal in keep theis feet dry and warm, for on this their beal:h and comfort in a great measure depend.

There are many kinds of composition that are good to resist water, and preserve leather, and the proportions of the above may be varied. Tar and tallow will answer well alone; linseed oil is used as an ingredient in composition. Neat's foot oil is excellent and preserves the leather solt.-Castor oil has been highly recommended for this purpose.

## DISINFECTION OF MANURE.

It is long since we adverted to the Disinfection of Manure, that most important operation, which a lone will ever induce people in this country to employ habitually the fertilising materials at their command, or prevent their throwing away money in the pursuit of substitutes uncertain, dear, und comparatively inefficient. It is indispensable to find very cheap methods of cestroying the offensiveness of decaying matter, or no stop will ever be but to the enormous indirect waste of national wealth which is now going on.

Among the substances which have from time to time been proposed for effecting this end, some have been dear, like chloride of lime, charcoal, \&c., others dangerous to use, and insufficient, like sulphuric acid; some slow on their action, like gypsum; others too bulky, like peat earth; and others troublesome to employ, as is the case with muriate of lime. Each of these reasons has proved a bar (1) the employment of such disinfecting agent. But among those which have been occasionally mentioned is one that seems more free than any others from practical objections, and that is sulphate of iron, or what is called in the shops copperas, or green vitriol.

In the year 1842, a Mr. Schattenmann published no account of his manner of employing this substance; and we mentioned his method ar p. 191 of our volume for that year. As he is a practica! man, and his employment of the saltwras on a large scale as a farmer, his observations were entitled to the greater attention. Nevertheless, we do not find that his advice has much been followed; and therefore we beg to invite attention to the following additional evidence produced by Mr. Schatteninamn in fayour of the use of sulphate of iron:
"The offensive exhalations produce by putrefring matters arise," says this excellent observer, principally from the flying off of carbonate of ammonia and sulphuretted hydrogen gas: but if a solution of sulphate of iron is thrown among such matters, a double decomposition immediately talies place; the sulphuric acid of the sulphate of iron combines with the ammonia, and conieris it into a fized salt; the iron combines with the sulphur, and forms a sulphate of iron. The unpleasant smell of ammonical vapour and of sulphretted hivdrogen disappears immediately, and the putrefying matter that is acted on retains nothing more thin a feeble odour, which is not in the slightest degree disagreeable"
Now any one may easily verify this fact by taking smelling salts, dissolving them in water, and throwing in some green vitrol; when the fiuid will become black in consequence of the scparation of the black oxide of iron from the sulphuric acid and the pungent smell will go off in consequence of the combination of the sulphuric and ammonia. In like manner if some green vitriol be dissolved in water and a steam of sulphuretted hydrogen gas be sent through it the fluid rill become black with great rapidity, in consequence of the formation of sulphate of iron by the decomposition of the gas; and the diegisting smell will cease to be perceived.

No doubt, then of the accuracy of Mr. Schattenmann's statement can be entertained, and thus a very cheap and rapid means of destroying foul smells is at once obtained; not indeed as quickly as by the use of chloride of lime, but an infinitely less expense. By this means the most offensive matters may be purified, and putrid substances of the worst description removed without even so much annoyance as arises from common stable manure.

No fear need be entertained of the sulphate of iron, because of its iron, injuring the quality of the manure; experience shows what theory indicates, that it produces no such effect, but that it secures all the advantage anticipated from $4 t$ without a single drawback.

We are tempted to introdace this subjeet into the Morticultural part of our Paper, because in fact, much as it interests everybody, it concerns more especially gardenersi, who are either obliged to buy their manure, or if it is furnished from a farm, are involved in incessant disputes with the farmings bailiff on account of it. We advise them to think well upon this article, to dismfect all those offensive matters which are now wasted and to show the farming bailiffthat with hot-water on one side, and sulphate of iron on the other, they can snap their fingers at the farm and all the assistance that is so grudgingly bestowed by it.Gardiner's Chronicle.

Keer your Pigs Warm.-Pigs cannot he kept through our long, cold winters with advantage, unless they are warm, dry, and comfortable. If they are exposed to cold, wet and filth, they must inevitably consume a great deal of food just to keep them alive, and as they will not gain : : such unfavorable circumstances, there is a lose ci sll the food they consume, unless we rechon the anic, ntage of having a pound of live fiesh in the spring for one in the fall, and this is by no means a profit worthy of much consideratoin, as the prices usually are in the market.

The same food that will barely winter a pig with poor management, will keep him in a turjving condition in a good warm shelter, and the difference in the tro modes of management is a mere trifle, while the difference in the result is important. The same difference that there is in spring betireen a large sleek growing pig, and a poor, stunted, wretched looking creature that is hardly fit for a foundation to build upon, as he will have become stationary as to growth, and some time will be reguired to get hirn started again in the progress of improvement.

Pigs should have a bed of straw or litter to sleep on that is not only warm, but free from filth, and in such comfortable quarters they will spend much of their time in quict and repose, and thrive well on a moderate portion of food, if it be well cooked and fed to them warm. Besides their usual food they should have condiments to keep them in a healthy state, such as charcoal, rotien wond, pure live carth, if they cannot convemently root down to it, and now and then a small dose of brimstone and antimony.

If pigs are generally kept on cooked food, they should occasionally have a fer maw potatoes and other roots, apples, \&c., for a change. During minter their beds should be replentshed whenever a deficiency occurs from a maste or other cause, as such frail materials soon wear out and mingle with the dust. If pigs be confided to a pen, the manure should be remored, else a large accumulation will injure the health of the animals from the filth that
will constantly adhere to them. Though the pig is is regarded as a dirty animal from his constantly running his nose into mire and dirt, yet he is very partial to neat, dry guarters for a resting place after the various manceuvres with his proboscis in search of food or condiment, and for the laudable purpose of healthy exercise.

## Gix Fairs ing the Fear.

TIlERE will be a FAIR for the sale of Cattle and Agricultural Produce, held at Mr. THOMAS (iRAHAM'S, three miles from Government House, on the Gagetown Road, and thirty miles from St. John, the same distance from Fredericton, and twelve miles from Gagetown, on the second Tuesday in November, the second Tuesday in January, the second Tuesdoy in March, the second Tuesday in May, the second Tuesday in July, and the second Tuesday in September.
Queen's County, Oct. 28; 1844.

THE HORSE.-The celebrated Author of Nimrod on Condition asserts that he never had in his possession a horse that ever suffered from worms, went blind, or broken-winded; neither expericnced lameness f:om thrushes, cracked heels, farcy, or humours: which he attributes mostly to the giving of such alteratuve or physic medicines every two months, as to excite a sufficient discharge by the skin, bowels, or kidneys, and thereby produce a regularity in the system. His great practical experience shows the necessity of administering such medicines (particularly to horses in work;) and to meet this desired object, no more prudent medicine ean be given than GIBTONS WORM and CONDITION POWDERS, as a safe and certain remedy for destroying all species of worm, and removing and keeping back the above diseases; and particularly if given at this seasnn and in the spring, they will put the horse in fine condstion for the coming season, and give him additional strength and rigour, purrify his blood, and add a fine gloss to his coating; and may be administered without making any alteration in either food or labour; and as the horse will take these powders freely, the groom will have but little trouble in giving them.-Sold in boxes, with the purgative ball, by Janes F. Grle, Chemist f. Druggist, Queen Strect, Fredericton.

## VALUABLE LAND FOR SALE.

ATract containing 900 acres, in the Parish of Dumfrics, lying between Land occupied by Asa Dow, and Land owned by the Heirs of the late John R. Patterson. The Great Koad passes through this Property, and a considerable portion of the Tract is cleared, and will be sold entire, or 1 n Lots of 200 acres, to suit purchasers.
Ar.so,-A Lot of wilderness Land in the Parish of Woodstock, in the rear of Lands occupied by John Dibble, Esquire.
Asso -2020 acres of wilderness Land in the Caverhill Settlement, Parish of Quecnsbury Apply in Saint John to Messts. R. Rasifis \& Co., or to Wry. J. Bedell, Fredericton.
Oct. 9, 1814.

## FOR SALE

2,200 A CRES of LAND, situate in the Parish有 $H$ of Wicklow, County of Carleton, granted to L. H. Loudham and E. T. Harrison, Esquires. Also, -1.900 acres situate in the Parish of Dumfries, County of Xork, granted to Charles Rainsford, Esquire. The same will be sold in lots to suit purchasers. Apply to

Fredericton Septomber 311844.

## ifine Light, Whotesales itetain.

$r$ githe subscriber offers for sale at rery low prices, wholeszle and retail, one ion of best Domestic Manufactured Mould and Dipt CANDLES, warranted a Superior article.
St. John, Scpt. $\approx 0$.
JOHN T. SMITH.

ARS WANTEED:-For a good quality of which a jiberal price will be paid.

THOS. PICEARD.
Dec. 14.

ASirs Paint Oil; 15 cmt best No. 1 Lezd, F.W. HATHEWAY.

No. 20, South Wharf; st. John.
FLOURAnd MEAL.
Received from Philadelphic, ex Ship Janes White, and Schooner Megunticuok.

## 150 B rrels superfine Floun, (New Wheat) 120 do Curn Meal,

100 barrels Rye Flour. IN stonf:
20 barrels No. 1, Fat Shad,
100 sides New York inspected Sole Leather,
150 Dry, salted, and hung dry Hides,
6000 feet $8 \times 10$ and $10 \times 12$ Glass,
25 chests souchong Tea, 10 brls clear Pork
50 boxes smoked Herrings, 50 sides Cpper Leather,
50 Reams Printing Paper,
40 corn Brooms, (American.)
Wheel Heads, Nests Measures, l'ails and Brooms (domestic,) Dry Fish, Tobacco.

COLIN E. CROSS.
Sept. 9. 1844.

## Jameary 6, $18 /{ }^{5}$.

In Store, on Consignment, and for sale Low.
40,000 FEET English window Glass, assorted, from $14 \times 20$ to 5 n ;
30,000 Principe
16,000 Hermandez
5,000 Light Brown CIGars.
2,000 Havana
150 boxes No. 1 Family Soar,
600 do. Smoked Herrings.
50 barrels Pilot Bread, 45 do. Navy Bread,
50 do. Pitch and Rosin,
50 do. New York Appies. (Baldwin)
20 do. SilverSkin Onions,
90 do. Walnuts, 20 chests Congo T 玉 A ,
10 do. Bohea Tea, 15 bales Feathers,
95 kegs and hlaf batrels Saleratus,
12 Buffalo Skins, 1 Ton Hams:
15 bbls Nova Scotia CIDER,
1,500 ft. Branch VENEERS,
200 Looking Glasses, mahogany Frames, assorted sizes; 10 French Bedsteads, 10 bores Stearine Candles, Jdo. Tallow du., 36 brls. Becf, (in Bond.)

THOS. HANFORD \& CO.
Saint John, N. B.

## WANTED.

400 P
AIRS good Socks and Mitts, for which the highest prices will be paid, cither in cash or trade. Fredicton, Dec. 3. 1844. F. V. HATHEWAY.

## 

THE Subscriber offers for sale two likely ycuns Horses-one four years and the other three years old past, both well broken in harness. Also:-One single Horse-Sleigh. Inquire of B. A. Huestis, Fredericton, or of Mr. Samuel B. Smith, Keswick Creek.

JOHN T. SMITH.
December 17, 1841.

## CAUTION.

A
LL Persons are hercby cautioned from trespassung on the following Lots of Land:-
Lots ivo. 12 and 14. in the Carerhill Settiement. in : grant to Dr. Caverhill and others, said Liot No. 12 and 14, granted to Benjrmin A. Huestis, and bounded on the West by the Main Road. and on Lot No. 9.t. pranted to John A. Huestis, containing in the whole 300 acres and now owned by Messrs. Rubert Rankin \& Co. Any persuns trespassing on either of the ahove Lcis, wall bo prosecuted.
W. J. BEDELL © CO.

Fredericton, Dec. 50, 184s.

## OATS WANTMED.

wJ. BEDELL \& CO., wish to purchase a quantity - of good O i TS.

Fredericion, Dec. 30, 18 s4.

## Strychanimemody Plf Poison.

fresh supply of the above received by
JAMES F. GALE.
Jan. Elh, 1815.

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## WITH ABUNDANT PROOF THAT THERE IS 



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## 

Aia Astonishing Cure of two Nalignant Absecsses, Besides a Wound in the Thigh of Nine Inches long, laying the bone completely bare.
EDWARD WHITE. residing at 45, Clement's Lane, Strad, London, was an In-door patient at King s College Hospital, for two Malignant Abscesses in the Thigh, and a Wound Nine Inches loug, which lajd the bone completely bare on the same hamb. He could neither sit, stanel, or valk, but was obliged to lie continuatly on has back. He remamed at the above-named Hospital during a period of live Months, at the expiration of that time he was informed that "nothing more could be done for him.:" IIe was then carricd to his home in a coach, when he commenced using IfOLLOWAD'S OINTMENT AND PILLS, which immediately gave hm reliff, ard ultimately cured hum, after erery other means had failed.

An almost iniraculons cnre of a Bad Leg! Of Five Year's slaving. The Patient lad been Disclurged from Guy's Hospital, zoithout deriving the LEAST BENEFIT from that Institution. Mrs. FRY, residing at No. 35, Trafilgar street, Walworth,主oudon, was some time since admitted as an In-door paticut at Guy's Hospitai, with a Bad Leg of Five years: standing. The fech on the leg was in some places nearly as hard as bone, it resembled in appearance the trunk of an old tree, being in knots and lumps; it was greatly s:Wollen, and NLNE FRIGHTFLL ULCERS in it; she derived no benefit whatever at the Hospital, and returned to her home. Her case was so bad that for threc years she was carricd up and down stairs every day like a child, being perfectly helpless. She was in this dealoralile state when she comenenced the use of HOLLOWAD'S OINTMENT AND PILLS, which, in the course of about Threc Months, performed a pe:fect cure when overy other means proved unavailing.

## A hlan's Face Prevented from being:Faten away

By Cancerous Sores, by means of "Hollowony's Oinlment and Pills."
IAMES WEBB, a Brewer's drayman, residing-1n Robun Ilood Court, Leather Lane, Hfolborn, London, had a large hole which went thrögh.his cheek and several other lilears which were on both sides of his face, eating all the flesh from it. He was anin-door patient in Charing Cross Inspital for six months without being able to gri a curn. He cxpected that nothing could save has life until he was advised, is $亠$ last resource, io use "HOLTOWAYS OINTMENT and PILLS," which inmmediately stayedthe rapages of this terrible complaint and ultimately healed all the Cancerous sores, and with the exception of frightful marks in his-face, he is as well us ever tic was.
a Case of a loonthsome Skin Diseasc, Attended with Dreadful Sucellings of the Whole Body, llat had resistal the tralmint of nearly all the Hospitals in London, cured by Holiouanits Ointment and Pills.
A child five years of age, named . IONES, whose father is a shoemaker, living at No. 4, Horse Shoe Alley, Wilson street, Finsbury, London, have been afficted from the age of sixteen monthsold, with fearful and dreadful swellings all over hor body, which used to affect her periodically; at such times her face would change its colour and remain perfectly BLACK; herbody was allways covered with large malignant sores. For this unknown complaint: the child was takẹn by her mother to nearly all the Hospitals in London, and most of the surgeons of eminence; none appeared to understard her disease, and she got no better from their treatment. As a forlorn hope HOLLOWAY'S OINTMENT and PILLS were tried, which not only gave relief but completely eradicated the disease from the system, so that the child is now restored to perfect healith and not the least vestige of the former complaint remains.

## IN ALU DISEASES OR TIIE SIIIN,

Bar I.egs, NId Wounds, and CIcers, Bad Breasts, Sore Nipples, Stoney and Clcerated Cancers, Tumours, Swellings, (inut, Iheumatism, and Lumbago, likewise an case of Piles; the Pjlls in all the above cases, ought to be used with the Ointment; as ty this means cures will be effected with a much great certainty, and in half the time that it would require hy using the Onintment alone. The Ointment is proved to be a certuin remedy for the bite of Moschetoes, Sand-fies, Chegofoot, Faws, and Coco-hay.

Burns, Scalds, Chilblans, Chapped Iiands and Lips. also Bunions and soft Corns, will be immediately cured by the use of the Ontment.
The Pills are not only the Finest Reancay Huown, When used with the Oiniment, hut as a general Medicino there is nothing cqual to them. In nervous affections they will be found of the greatest sertice. These Pills are without exception the finest purifier of the Blood ever discovered; and OCGHT to bel:SED BX ALL!!?
Sold by the Proprictor, 244 , Srand, (ncar Temple Bar.) There advice may be had gratrs, andilig all. rospectable Venders of Patent Medicines thiroughout. the ciwitiscd woild, in Pots and Boxes at is. 9a. 4s. Gd. and 7s. cach. There is a very considerable saving in taking zbelarger sizes.
$\mathcal{F}$ B.-Directions for, the Guidqnco, of Paticnts aro pfixed to cach Pot.
JAMEs F. GiA.K, Chicinist fo Drugsist, Agoil for fradericion: N.E.


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