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"THE EARTH B'ING MAN'S INHERITANCE, IT BEHOVES HM TO CULTYATE IT PROPERLY"
Yol. I.
fredrateton, N.b. autust, 1844 .
No. 4.

THE FARMER'S MANUAK,
Containing Sixteen Pages Super Royal Octavo, will be pubhshed every Month by James P. A. Phillips, at the Office of the "Heal) Quarters," between the Central Bank and Mcssrs. Gaynor \& Thompson's Store.
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## THE FARMER'S MANUAL.

Xenophon has remarked, "that the arts thrive where Agriculture succeeds prosperously," and Mr. Gibbon has innlared "Agriculture to be the foundation of manufactures; since the productions of nature are the materials of art." The mechanic and the artist holding themselves no share in the divisions of the earth, receive a voluntary tax from the owners of the soil; and these are instigated by their own interests to improve the estates, with the produce of which they may procare additional pleasures. The real interests, therefore, of the agriculturist and manufacturer are not irreconcilable but friendly, each depending for support on the successful prosecution of the labors of the other, and each receiving the most permanent advantage when a like prosperity is blessing the employments of his neighbour. It were well for some portions of the world if this truth could be as faithfully observed as it may be easily demonstrated -and the-arms of the farmer and mechanic relieved from the imposition of duties and the straightness of distinctive protections be made free; to produce on the easiest terms the fruits of their respective labors, and to dispose of these in such manner and at such places as should promise the best returns. But this is not the subject on which we proposed to discourse our readers at this time, and
we must leave it, though perchance unwillingly. We return to our rough draught of the history of Agriculture.
It is quite impossible to fix with any degree of certainty, what time Agriculture was introduced into Britain. It was not unknown when Julius Cæsar first invaded the island, and he supposed it to have been introduced by the Gauls about one hundred years before that invasion. It is stated by Pliny that this people were acquainted with the use of marl as a manure, and that it was peculiar to them and the people of Britain. Lime, too, was used as a manure among them before the invasion of Cæsar.
Although after the establishment of the Romans in Britain immense quantities of corn were annually exported, the Picts and Scots soon disturbed the labors and destroyed the fruits of British industry, and the supervening wars in which they were involved by the Saxons, drove them from those portions of their country best suited to Agriculture. The rents and still more the low prices of land prove the great decay of Agriculture at this time-the price of an acre of the best land being no more than sixteen Saxon pennies, or four shillings of our money; four sheep being equal in value to an acre of the best land, and one horse to the value of three acres.
The Norman invasion improved Agriculture, for by that event many thousands of husbandmen from Flanders, France, and Normandy, setted in Britain and cultivated farms after the manner of their countries. Many Agricultural implements, like these now in use, thou ${ }_{j}$ h less perfect, were brought over and used by them. Summer fallowing of lands for wheat, and ploughing them several times, were frequently practised by the English farmers in this period. Ingulphus, abbot of Croyland, under the Conqueror, supplies an early and interesting instance of improvement. Richard de Rules, Lord of Deeping, he tells us, being fond of Agriculture, obtrined permission from the abbey to enclose a large portion of marsh for the purpose of separate pas-
ture, excluding the Welland, by a strong dike, upon which he erected $a$ town, and rendering these stagnant fens gardens of Eden. The example of this spirited cultivator was followed by the inhas bitants of several neighboring villages who, by common resulution, divided their marshes among them, when some converting thein to tillage, some reserving them for meadow, others, leaving them in pasture, found a rich soil for every purpose. Still the culture of arable lands continued very imperfect. Fleta remarks in the Reign of Edward I. or II., that unless an acre yielded more than six bushels of com, the farmer would be a loser, and the land yield no rent.

We are afer all very much in the dark respecting the state and progress of Agriculture previous to the 14th century, but in the latter end of the 15th, it became cultivated as a science, and very rapidly improved. .At this time, Fitzherbert (a Judge of the Common Pleas) distinguished himself in practical husbandry; he studied the nature of soi $s$ and the laws of vegetation with philosophical attention -composed a theory and confirmed it by experi-ments-rendered the study agreeable as useful, and contributed to the honour and advantage of his country, by increasing the sum of knowledge and kindling the spirit of emulation and enquiry in reference to this most important Art.

During the civil wars, the labours of the husbandman were temporarily checked, yet several valuable writers flourished, and the at received encouragement. Sir Hugh Platt brought into use many new kinds of manure-among which we notice salt, fullage of streets in cities, dunghills made in lairs, fern, hair, calcination of vegetables, ashes, urine, \&c. \&c.

Gilbert Plattes, too, in the Reign of Queen Elizabeth, did signal service by his writing, for which he was ungratefully rewarded by being, suffered to perish of hunger in the streets of London, and die without a shirt on his back. The greater number of the esculent vegetables now in use, were introduced in the Reign of this Princess.

Hartlib, the friend of Milton, received from Cromwell 1100 a year to reward his valuable etforts in the cause of Agriculture. In his time the art was carried to very considerable perfection for the expences of the preceding wars had compelled the country gentlemen to become indusirious. At the restoration, however, this industry was lost in neglect and dissipation, and husbondry again feil into neglect.

4es In consequence of having a heavy jai) of work on hand, which we could not well delay, we had to postpone the publication of this number of the Manual for a weck beyond the time it would otherwise have made its appearance. Our endeavour shall be to avoid an occurrence of the kind in future.

Wheat Crop.-It is said the prospects of a bountiful Wheat harvest throughout the Province, was never better than that presented during the present season, but within a few days past it has been discovered that the Weevil has got into the heads of the grain, and eaten nearly the whole of it.
The information we have been enabled to gather is, that there can scarcely be a field of wheat found in all the country above Fredericton, as also in many places on the Nashwaak and Miramichi rivers, but what is entirely destroyed, at least so far as respects the grain, and that the farmers are now cutting it down for the use of their cattle.

We have heard of a method by which the Weevil may he destroyed, and the grain protected from injury, and are credibly informed that it has proved effectual in saving the crop in some instances. It is, while the grain is heading, and during the time it is in milk, to mix Tar and Brimstone together, and set fire to it, and then before sun rise, for a few mornings. pass along on the windward side of the grain so, as to allow the smoke to settle upon it while it is wet with dew.
This is but a simple method to accomplish a great purpose, and as the expence is very trifling it should not be forgotted at another season.

Potatoes.- In many of the gardens and fie!ds in the town and neighbourhood, the Potatoes are completely caten by vermin, the stalks bearing the appearance of having been struck with heavy frost. There is no certainty as to what the cause may be, but it is attributed to a continuance of wet weather. If any person can give a reason for the failure of the potato crop in these instances, and inform us how a similar occurrence may be prevented in future, we will publish it for the good of all concerned.
(For the Farmer's Manual.)

## LETTERSOF"AFARMER." Letter $X$.

Having lately seen an article on the subject of cutting Grass in which the writer approves of cutting "it when in full bloom," I beg leave to differ with him for the following reasons, viz: 1.-When the grass is in full bloom, or, as we term it, in blossom, it is growing and increasing in bulk and quantity faster than at any other period. 2.-Grass cut in blossom, shrinks in curing, and produces a much less quantity of hay; and 3.-To cut the grass in blossom injures the root more than to cut it at any other season, and this consequently injures the meado:r for the ensuing year.

Having ascertained long since that the greatest strength of the soil was required to mature the wheat crop, and that grain when cut in blossom does not impoverish the soil any more than the green crops do, I applied the same philosophy to-grass, and cut it in blossom to prevent deterioration of the soil, but my own and other's experience have taught me that it is best to let the grass and seed have its full growth before cutting, but not to allow it to become so ripe as to fall off.

It is well worthy of remark that cattle are seldom known to eat the blossoms of clover and some other grasses, and we frequently see a short pasture white with clover blossoms; butassocn as the seed ripens it is devoured greedily, and thus the seed is abundantly scattered through all ranges of pasture. Whether this circumstance arises from a disrelish to the taste of the flower, or from the circumstarice of its being generally occupied by a little offen-
sive insect that sucks the honey, I an aware. - The latter may probably be the case, for a kind and bountiful Providence is very subile in its methods of protection.

Hay shotid generally be secured in the month of August, but the greatest inconvenience among farmers in securing their hay is the want of sufficient help to secure it at the proper season. Clover will frequentiy show blossoms all the season, but when timothy is fit to cut it should all be secured in one week.

Some think that one dew will injure the hay materially, but I have found it a good syatem to turn over the wilted swarth at night to receive the dews on the green side, and this greatly facilitates the operation of curing the next day, and prevents any injury from the dew.

Few are aware of the great value of salt in curing hay when there is a necessity o." putting it green into the mow. It is more than twenty-five years since I had occasion to put up a stack of hay very green, and fearing it would heat and rot, I used about a peck of salt to a ton and I found the following winter the hay was of a beautiful green colour, and in perfect order. I have frequently tried it since with the same good effect though in less quantity. The farmer in stowing his hay should always have the bucket of salt handy; if it is damp enough to heat, a very little salt will effectually prevent its heating and preserve the color and strength of the grass.

In speaking of the proper season for cutting grass it is worthy of remark that none of our natural grasses will bear cutting early, which has been too frequently proved on our natural meadows and intervales in this Province. If the Blue Joint is cut before it is full grown the same meadow will not be worth mowing the next year, and the same case will apply to most other natural grasses. Even thistles cut in blossom are effectually destroyed.
$O_{n}$ Manures.-It is pleasing to see and hear an inquiry into the best method of preserving and securing manures, and the interest manifested by some on that subject is really gratifying at the present time. Several, I find, have come to the very just conclusion that the liquid manure from the stable and barn-yard is far more active and powerful when in a state of fermentation. Such discoveries, the result of small experiments, cannot fail to afford interesting and open a way to useful information. But while Fuora improves her monthly roses ond geraniums with Guano and other active substances from a sinall tub, I hope to see a more general and extensive preparation by an abundant collection of absorbing substances such as may be considered well worthy the attention of

A Farmer.

## Letter XI.

It is of great importance to Farmers to have their implements of hasbendry so constructed as to be effectual with little labor, and for this purpose they should generally be light.

A heavy axe; hoe, pitchfork or rake causes fatigue, and furnishes an excuse for rest and neglect in the labourers. The scythe shouid be goad to cut, and well fitted to suit the mower, and there are no others equal to those imported from England. The spring-steel forks are excellent, and the farmer should never be without them. The modern hoes are cheap, light and well adapted to the purpose. The potatoe hooks for digging are also a great improvement; and iron ploughs are also abundant and durable. But the horse-rake,
although little known and used is a most in portant article for haymakers. I would not be without my horse-rake tor the services of the best labourer in the Province during the haying season. Every man who has ten tons of hay to rake should have one; but unless they see one used for a sort time, some would be at a loss how to manage them. After, however, seeing the principle on which they act a carefui man will know how to run one well in half an hour.

With our fields free from stumps and roots, our ploughs and harrows of the most improved construction, strong and convenient teams, the example of our forefathers, and the united skill and research of the moderns, shall we not look for an inprovement in Agriculture?
Do we not see it wherever a careful experiment is made? Where is the careful farmer who has followed no other profession and failed in Agriculture? I hear some complain of bad seasons and others say for some reason or other, which they are at a loss to account for, Grain and grass do not turn out as they used to do; but upon examining their farms I find every symptom of bad management which has produced deterioration. . Old worm out meadows annually mowed and pastured for twenty years or more, and plowed fields as long under tillage which they are afraid to plough more than four inches deep lest they turn up the cold clay or subsoil. On hearing the exclamation what shall I do ? or, how can I help it? 1 answer, as as your fields are all poor together your case is hard, but not hopeless, commence top-dressing your meadow, and first turn half of it out to pasture until you are prepared to do better by it. Plough your land one inch deeper every time until you have it at least nine inches deep. Try a piece of your old meadow by turning it well over in narrow ridges by ploughing about five or six inches deep. harrow and sow with English grass seeds and ther roll it in. The ploughing may be done any time between August and December but the earlier the better. The Grass seed does weli to sow on the snow or at any season of the year if it is not accompanied with oats or other grain that would overpower it. Do you yard your cattle in the highway? If so you are losing more than half the benefit you might derive from them. If you must yard them at all give them a ploughed field and plough it often through the summer; by that method you may make at least the depth of a furrow excellent manure for top-dressing an adjoining meador in the fall.
If you stable your cattle see trat they have litter and a sufficiency of vegetable and fossil matter to absorb all the liquid.

By a proper attention to these particulars and a careful application of your manure thus saved, you may soon find that at least a part of your farm is becoming more productive and that your soil has more resources within itself than you were heretofore aware of, and which you may be able annually to develope to your encouragement and profit.

But this neglectful system of farming is not confined altogether to the old farms-most of the new settlers are pursuing the same method. They find that the newly cleared land produces an abundant crop, and they rush on in the forest to clear for their tillage, where the grain grows luxuriantly from the ashes of a good burn, as it is termed, and neglect their stubble grounds in such a manner that the more land they have cleared, the less their farm is frequently valued. The bushes, weeds and moss take possession; the cradle-hills annaally rising continue to make the surface more uneven, and the
neglect of timely draining leaves the fiat places and hollows miry in the spring and fall and baked hard through the summer drought and it is not unfrequently the case that it is left to grow up again.

The best method of clearing land is to stump it at first while the tree will act as a lever to tear out its own roots, but as this cannot always be done the sooner it is stumped and wel! ploughed after taking off the first crop the better it will be for the subsequent crops. If the land is stony let the farmer weigh well in his own mind where he had best make his stone heap, and where a permanent fence will not require being renoved, for labor and time are cash to

A Farmer.
Sunbury, August, 1844.
Green Manuming, on the appheation of Vegetable Matten in the green: state.-Jolinston, in his lectures on the application of Chemistry and Geology, has a very long and able article on the above subject, but as it is too long for insertion entire, we shall endeavour to give the practical results to which the writer arrives, from which the reader will be able to draw such conclusions as cannot fail to be profitable to him, provided he acts up to the advice which those results would impress upon his mind. The resuits are-

1. That the pioughing in of grass vegetables on the spot where they have grown, may be followed as a method of manuring and enriching all land, where other manures are less abundant. Growing plants bring up from beneath, as far as their roots extend, those substances which are useful to vegetation, and retain them in their leaves and stems. By ploughing in the whole plant, we restore to the surface what had previously sunk to a greater or less depth, and thus make it more fertile than before the green crop was sown.
2. This manuring is performed with the least loss by the use of vegetables in the green state. By allowing them to decay in the open air, there is a loss both of organic and inorganic matter; if they be converted into fermented (farm-yard) manure, there is also a large loss; and the same is the case if they are employed in feeding stock with a view of their conversion into manure. In no other forn can the same crop convey to the soil an equal anoount of enriching matter, as in that of green leaves and stems. Where, the first object, therefore, in the farmer's practice, is so to use his crops as to enrich his land-he will soonest effect it by ploughing them in its green state.
3. Another important result is, that the beneficial action is almost immediate. Green vegetables decompose rapidly, and thus the first crop which follows a green manuring, is benefited and increased by it. But partly for this reason also, the green manuring of grain cropped land-it aided by no other manure-must generally be repeated every second year.
4. It is said that grain crops which succeed a green manuring, are never lain, and that the produce in grain is greater in proportion to the straw, than when manured with fermented dung.
But it is deserving of separate consideration, that green wanuring is especially adapted for improving and enriching soils which are poor in vegetable matter. The principles, which living plants draw a part of their sustenance froin the air must be admitted, and add to their value as fertilizers. Living plants contain in their substance not only all they have drawn from the soil, but also a great part of what they have drawn from the air. Plough in these living plants, and you necessarily add to the
soil more than was taken from it, in other worls, yon make it rich in organic matter. Repeat the process with a second crop, and it becomes richer still, and it would be difficult to define the limit beyond which the process could be no further carried. Is there any soil which is beyond the reach of this improving process. Those only are so on which plants refuse to grow at all, or on which they grow so languidly as to extract from the air no more than is restored in it again by the natural decay of the organic nattes which the soils already contain.
But fur those plants which grow naturally upon the soil, agricultural still ma." substitute others, which will increase more rapidly and produce a large quantity of green leaves and stems for the perpposc of being buried in the soil. Hence, the selection of particular crops for the purpose of giving manuring-those are obviously the fittest, which, in the given soil and climate, grow most rapidly, or which produce the largest quantities of vegetable matter in the shortest time, and at the smallest cost.
The plants enumerated by Professor Johnston as best adapted to the purposes of green manuring, are-1.-Spury; 2.-Pulse ; 3.-The Vetch; 4. -Buckeheat ; 5.-Rape ; 6.-Kye; 7.-Turnips; 8.--Borage; 9.-Red Clover; 10.-Old Grass Suarrls:

We have for years endeavoured to impress upon such of our readers as had not the means of obtaining a sufficiont quantity of animal and vegetable manires from their stock to manure their fields, how important it was that they should plough in green crops, and we are the more pleased to find that our views, so often advanced, are so ably sustained by the opinions and experience of so distinguished a man as Professor Johnston. We have heretofore recommended the Buckwheat should be sowed for the purpose of being ploughed in whenever land was poor, and its owner had not manure at hand to improve it. We recommend buckwheat because of the quickness of its growth, and the largeness of its leaf, enabling it to appropriate to itself a very considerable portion of those nutritive gases which abound in the air, and form large portions of the food of plants.
We defer to no man in our estimate of the great valuc-the paramount importance-of lime to every soil calculated to produce vegetables; but still we have always thought that all soils require, besides mineral substances, those of vegetable and animal matter also, to make them partake of the highest elements of fertilization. We would not be understood as supposing that one of buckwheat turned in would be equal to a full dressing of rich stable or barn yard-manure-but we do maintain that two crops turned in just as the plant comes into flower, would be equal to a very heavy dressing of any putrescent manure which could be applied. And upon the score of cheapness, we know of nonc where the party has to buy, that can compare with it; and then, when properly and evenly sowed, green manure has this advantage, from the equal distribution of the vegetable matter over the entire field, there is an equality of fertility in all its parts, a thing most desirable, as every practical farmer will readily admit.
In conclusion, let us most respectively advise all who may have exhausted lands, and who may not have the means of procuring a supply of other putrescent matters, to make arrangements to sow and plough in a crop or two of buckwheat. Should they use lime or ashes in connection with the green loaf, so much the better, the more promptand
decided will be its efficacy. Man requireth bread as well as meat, and the earth requires vegetables as well as mineral substances.-Ballimore American Farmer.

## FOOD OF PLANTS.

The following article from the $\mathcal{N e}$ or Genessec Foumer, will strike the intelligent reader, as being entitled not only to be read, but studied. It is written by Dr. Lee, of Buffalo, New Yurk, a gentleman possessing powers and original views upon all subjeces ronnected with scicuce, and who has also, the happy nack of making people understand him.
'To understand the process of nature by which certain elements of earth, air, and water are transformed into living plants, and the best method of preparing these elements so as to produce the largest crops at the least expense, are objects worthy of the careful and profound study of every cultivator of the soil.

If we take 100 pounds of ripe hay, oats, wheat, or corn, including the roots, stems, and seed, and burn them in the open air, we shall have only about three per cent. of alkaline earths left, most of which can be dissolved in water. If we burn a pound of candles or a pound of oil, whether animal or vegetable, the whole of these substances, (which are truly the "fat of the land,") will be formed into invisible air and vapour. The atmosphere and water are nature's great storehouse for preserving an exhaustless vegetable food. By respiration, fermentation, and rolting, all organic structures are tromsformed into gasses and solable salts. It is from the lime dissolved in the ocean that the oyster elaborates its shell, and the coral insect rears its massive mountains of coral rock. It is mainly from the phosphate of lime held in solution in its mother's milk, taken from her food, that the sueking calf elaborates its solid bone. Without lime to be dissolved in her gastric juices, and taking into her circulating blood, the hen can make no solid shell to her egg. The unnursed infants in the great cities of London and Paris, and fed on arrow ront and other food that contains little orno lime, bave soft, cartilaginous, rickety bones, simply because neither animals nor plants can make something from nothing.

As a general rule it is strictly, and moreover it is a truth of great practical importance, that a feeble, diseased stem in wheat, liable to rust, \&c., and a shrunken berry are owing to some removeable defect in the food of the plant. So different are the essential elements of the seed of the plant from those of its straw, that it is practicable to raise wheat that will yield twice as much grain in weight as there is in weight of straw, taking it from the root. That it is also practicable to grow wheat which will give five times as much straw as grain, most farmers know by sad experience.

On page 254 of Transactions of the New York State Agricultural Society, 1842 , Gen. Harmon, of Wheatland, states that "in 1803 Pettin Sheffer, Esq., of this town, harvested 40 acres of wheat grown on the Genessee flats, that produced 62.2 tushels per aere." What elements did nature provide, and where did she get them for the growth of such a crop? Manifestly they came from the mineral and vegetable matter washed down from the highlands above.-Those elements are just as abundant now as they were in 1803 , or at the close of the creation. Having found out within the last forty years, since Mr. Sheffer harvested his famous crop, what these vegetable elements are, and hor to combine them under more favor-
ablo arrangements for the production of cullivated plants that nature has anywhere done, men of science have greatly excceded the above large product. From naturc's crab apple that weighs less than an ounce, science has at last grown fruit weighing twenty times as much, or 2,000 per cent. more than the original.

By the use of charcoal and lime, Mr. Pell, of Goshen, in this State, has harvested this scason at the rate of 78 bushe's 24 quarts of wheat per acre. The ground was accurately measured by a surveyor's chain, and the grain in a sealed half-bushel, and the statements are all sworn to by two respectable men. I notice this triumph of science with the more pleasure, from the fact that I have long and zealously urged the use of tilese abundant eiements upon the attention of the readers of the papers for which I have written.

It is more than twenty years since I first began to use pulverized charcoal to absorb the gasses given off by decomposed vegetable and animal matter, urine, and the like, to be applied to garden and field crops. Its value in correcting the taint in meat, and purifying rain-water in filtering cisterns, led me to bclieve that it would be just the thing to absorb the food of piants from the atmosphere, into which so much passes, and hold it ahout their roots in a condition that neither dew, rain, snow, frost, nor the heat of the sun, would injure it or take it a way. To labour hard to save and draw out manure on to one's nelds, and then to lose 60 or 80 per cent. of this vegetable food by its solution in water, and washing away to form something like the Genesce flats in the bottom of Lake Erie, I never regarded as very good economy -which by the way, is the soul of good husbandry.

A pint of urine contains ammonia enough to make, with the other necessary elements, 60 pounds of good wheat. Charcoal will absorb this liquid, and render it quite inoffensive to the olfactories of the nose. The direct application of urine to the soil, after the German practice, is bad economy, unless the soil contain a large portion of humus or vegetable mould, for its tenacious retention. It is a better plan to have a reservoir filled with pounded charcuai under the stable floor, or near to the stable, into which the liquid excretions of all animals should be conducted like cider from the press. When nearly, or quite saturated with urine, this coal will be manure of extraordinary power and durability-for nothing in the soil, but the roots of growing plants, will be likely to extract a particle of this vegetable food.

After wheat, corn or grass has taken up all this nourishment, the coal (unlike lime, which has parted with its carbonic acid in the same way) is insoluble in water, and remains, as in a filtering cistern, to absorb and hold, for the benefit of the growing plant, more vegetable food from every rain that falls to the earth. For be it remembered, that dew, rain and snow-the poor man's manure, bring back to the earth all the gaseous elements given off by all the fires, respiration and other decomposition of solid and liquid matter.

For the same reason, coal should be largely used in the formation of compost heaps. And wheic the farmer has straw which he can use to make beds for his horses and cattle in the stable; this, with 2 quantity of coal pounded with a flail, can be spread upon the stable floor, to absorb all liquid excretions. All these excrementitious substances should be kept under shelter. Wood ashes, lime, and muck, or vegetable mould, are valusble ingredients in all compost heaps. The coal stritum
should be placed between the lime and manure, and the whole should be covered with turf or more coal.

The analysis of soils abounding in fragments of limestone rocks, shows a marked deficiency of this important element in their composition. The reason of this perhaps unexpected deficiency I will now explain:

Disintegrated limestone is decomposed by the vital action of plants, and its carbonic acid is taken up by their roots. It will then combine with more of this gas which abounds in the air and soil ; and will again give it out to growing vegretables. It is this way that plaster, (sulphate of lime,) after it has parted with its oil of vitrio', often produces such wonderful effects, although the amount appied is less than one fourth thousandth parts of the soil from which plants draw their nourishment. The action of the sulphuric acid, as I understand the matter, I will not stop to elucidate. But I wish to fix public attention upon the circumstance, that when lime in the soil has parted with its acid whether sulphate or carbonic, and especially the latter, it is soluble and very liable to be washed out of the soil by rain, \&c. All water that has passed through a soil possessing sufficient lime to be good wheat land, is mard, or holds lime in solution of which it has robbed the soil. The same is truc, in a less degree, with regard to leaching of the soil, and its loss of allumina, potash an soda. The cultivation of the earth, without allowing any vegetables to grow uponit, would exhaust its fertility very rapidly.

The remedy for this is, to cultivate less land in grain crops, and cultivate it far better; to remove all excess of water by draining; to plough deep, and to turn up to the sun virgin earth from below, and apply thercon manure, jal, lime, ashes, and salt. Instead of applying large quantities of quick lime at distant periods, it is far better to apply a less quantity and often, to make up for the loss that occurs from its being dissolved in water, and carried with it into rivers and the ocean.

Leached ashes are valuable, when applied to grass lands and are far from being worthless on wheat, rye, oats, and barley-all of which need their silicate of potash, to give them a good firm stem. Grass and wheat know as well how to conrey the apparently insoluble elements in leached ashes up into their organic structure, as did the trees from which these ashes were obtained.

Farming and Gardening.-The Luitor of the Massachusetts Ploughman says, we are sometimes complained of, for publishing so many different opinions on modes of fa:ming and gardening; and are told that it tends to confuse the enquirer after truth, and to leave him as much in the dark as he was at first.

But such is the nature of all free discussion. There are more wrong heads than right ones in every community, but so long as freedom exists, every one is entitled to a hearing, and each hearer must judge for himself.
In regard to transpianting there are different modes and different opinions. It may be that none have yet discovered the very best plan of taking up and re-setting trees, and it is not prudent for any one to be very positive that he alone is right. Many prefer the plan of giving the soil a thorough soaking at the time of setting the tree; and one argument in favour of it is that all the cavities under the trunk will be filled and the tree will stand firmer with less liability to canker and rot than when reliance is placed on adjusting the fresh mould to the roots.

But other skilfit orchardists totally object to "flooding the roots with water" or to rendering the earth more moist than it maturally is in May or the last of $\Lambda$ pril. They contend that this is phacing the ground in an unnaturd state, and though you give a great abundance of moisture at first, you provide no means for securing that abundance, and if you could, you would have your tres in an unnatural element. Apple trees will grow rank, for a time, in wet lands, for such are not what they delight in. They uniformly flourish best on a side hill where there is no chance to flood them at any season.

The famous and ingenious Win. Cobbett was so averse to wetting roots farther than the soll would wet them, that be would not allow of a drop of water on cabbage plants, on transplanting, even in June or July. He argued that by making a puddle there, you make the earth hard like a cake and prevent a the extension of the roots. And to prove this theory he succeeded remarikably in taking a different course.
For our own part we prefer setting trees after the earth has become warm and been drained of a part of its moisture. We object to setting in October, because we do not desire to see the earth bedded down on the roots. And when we set in the spring we chose to leave the earth so light that the roots can extend without obstruction. By putting litter, of almost any kind, on the surface we keep the earth sufficiently moist in most cases, for the action of the roots. If the ground is sanily or graveliy care must be taken to prepare holes and render the texture of the earth suitable to retain a proper degree of moisture. And where artificial watering may be neccssary the surface should always be covered with straw or litter, for in such case one pail of water would do more service than three without it; it would not soon evaporate.

We have set a variety and vast number of trees within fourty-five years, and we have tried all the modes that looked plausible. Our preference $1 s$ to set trees-that is those that shed the leaf in autumn, just before the leaf puts out in the spring, place the mould carefully about the roots that no cavity may be left open, cover the surface about the tree with litter to check the evaporation, to keep the earth light, and to support the body of the tree through summer against the attacks of the winds.
Stones may be laid on the litter to make the tree stand firmer, and stones lying on the surface never make soil lie heavy. In this mode no staking is required unless you intend to let the oxen trim the trees when they are allowed to roam every where.
As to cutting off tops for grafting there will be no danger while you confine yourself to sinall limbs.

Points of a Good Milcir Cow.-The following may be useful to your correspondent " G ," in answer to his inquiries. It is from a report of the Guernsey Agricultural Suciety. Points:-1. Purity of breed and qualities of the dam for yielding rich and yellow butter. 2. Small head, large and bright cye, suall muzzle, small ears, orangecolor within. 3 Straight back from the shoulders to the tail, and chest wide. 4. A fine and loose skin, with soft and short hair. 5. Sides well rounded, flank small between the side and haunch, tail fine. 6. Fore lags straight and well proportioned, hind legs broad above the lnee, fine and clean below; hoofs small; legs should not cross in walking. 7. Udder large, and the teats large and springing from the four corners of the Udder mill: vein large and well defined,-Gardner's Clironicls,

Converting Pcat Soil into Meanow.-For centuries since the settlement of New England, thousands, we may say hundreds of thousands of acres of bor, swamp, or peat lands, have been unreclamed, receiving ambal depositions of fertile matter from the neighboring hills or sticanis, yet returning nothing to the owner, and considered the most worthless part of the farm. Attempts were indeed made at times to subject some of these places to cultivation, but nine times out of ten the attempt was a complete failure, and the ground was findly surrendered to the dominion of the cuarse water bog grasses and the bushes that usually accompany them. More or less such lands are found along the whole sea board of the northern and middle States, and have been as a matter of course, until within a few years, consigned to barrenoss as far as any valuable product is concerned.

At last, science came to the aid of the farmer, and taught him the composition of soils, and the hest method of remedying their existing defects. It taught him that those spots which had so lones been eyesores to lovers of arriculture, could be converted into the most fertile parts of the farm; that when relieved from the souring effects of stagnant water, and prepared by the maxture of cther and firmer earths, a new and valuable vegetation would succeed to one that was worthless, and thus the productive capabilities of the country be vastly increased. This process is now yearly going into effect; and the heaviest crops of tinc English grasses, roots and graiu are now grown on lands that from time immenorial have been quaking bogs, or dangerous quagmires. We have rarely met with a better illustration of these facts, than in the report made by Culonel A. Moore, of Concord, Mass., to the Mabsachusetts Society for the promotion of agriculture, and who received the premium offered on farms in that State.

The first object of Colonel Moore, on taling possession of his unpromising farm in 18:35, was to drain his peat bog meadows, and this he accomplished; but he found the ground did not become solid, that there was a tendency to allow the return of coarse grasses, and attempts to burn the surface, though partially successful, endangered the destruction of the whole peat meadow. In this dilemma he commenced drawing on sandy loam from sand hills that bordered the swampy land. "This answered the purpose. The ground became firm, the grass seeds took, and the yield was altogether beyoud my expectations." The process pursued by the Colonel is as follows:-The land is first ditched and drained ; the bushes cut off, or if large, pulled up; the soil levelled, and about 400 cart loads of sandy loam spread upon an acre; 20 cart loads of compost manure are added, and mixed up by harrowing. On this, in the month of September, inalf a bushel of herds grass, and half a bushel of red top grass seed are sown, harrowed again, and the whole rolled smooth with a heavy roller. The Colonel says:-"I have now from 20 to 25 ncres which have thus been reclaimed. The success I have had mey be judged of by the value of the crops produced. Every year since this land has been reclaimed, whether wet or dry, it has produced on an average not less than three tons of English hay to an acre, which brings the highest price in market. In 1838, at the request of Mr. Colman, the Agricultural Commissioner, I weighed the first crop of hay on one acre of this land, and it weighed 7,610 lbs. Ahout three acres of it during the season, I have no doubt, produced five tons to the acre. It was mowed twice, and the second crop was so large that it was considerably lodged.

One other fact may be stated. A few years ago 1 built a barn 30 fect by 40 , and some of my neighbors laughed at me for 1t, and said-" it is a good barn, but what are you gomg to till it with ?" That barn, together with one 1 have sunce bult, 40 by 80 fect, as well as iny others, are now full, and I shall have to build more or stop reclaming meadows. ***** I verily believe that the two first crops have, in every instance, repand the whole cost and cxpense of reclaiming."

Such are the results obtained by a skilful applecation of labor, and following ont the system of mixing soils as appointed out by nature, and so clearly indispensable to productiveness. What has been done by Colonel Moore, may be done by uthers, and the annual produce and profits of simlarly constituted farms be thus very greatly m-creased.-allbany Cultivator.

Compost Minere.-Messrs. Editors:-One half the virtue of our compost heaps will be lost to us, if they are carried abroad on the land before the most perfect decomposition of their component parts is brought ahout by repeated turnings and careful pulverization. And although this is now admitted by scientific Cultivators, few could yet be found who wonld be willing to debit the crops with the labor and cost of half a dozen turnings of the same heap, by which, however, there is with me no question, that its value, even in a pecuniary way, would be much enhanced; the mass in the end approaching to the mature of soaper's ashes, with the sinell peculiar to that most impregnating of all dressings. In the journal of the Agricultural and Horticultural Socicty of Western Australia, while speaking of the most suitable soil for the Orange, it is said,
"The French gardeners recommend as a soil for the Orange, a compost made as follows. To a ficsh loam, which contains one-third clay, onc-third sand, and one-third vegetable matter, and which has lain a long time in a heap, add an equal bulk of cow-dung; and the following year turn it over twice. The next year mix it with nearly half of its bulk of decomposed horse dung, turn it over twice or thrice, and the winter before using, add a twelfth part of sheep's dung, one twentieth part of pigeon's dung, and one twenticth part of dried ordure." And I add, if then you have not a mass as rich in fertilizing salts as Guano, whether from Pern or Africa, I should be glad to be told.

But an old friend at my elbow exclaims, "Well, but we don't want to grow oranges you know; all this is not necessary for the growth of corn or grain, nor would such crops ever pay the expense of such preparation." To the first part of the objectinn, I would say, admitted; but to the latter, I observe, I would be quite willing to trust to the test of experiment; and until this is fairly done, I shall not consider that we are competent to judge how far the principle of perfect amalgamation can be prow cably carried. The earth which forms the saltpetre beds of the East Indies is lixiviated, and the spent soil is thrown out and turned and spreat abroad; and at the end of a certain period it is found to have again imbibed an equal quantity of salt, and is again and again snbmitted to the same process, ad infinilum; and in like. manner I have no doubt our compost heaps would be found to grow in richness and virtue, in proportion to the frequency with which they arc turned over. And if it be a fact that one load of good stable manure is sufficient to fertilize two or three loads of earth, muck, \&c., a quantity of slacked or effete lime being added at the last turning when. fermeutation
has ceased, I should be curious to learn how the cost and carriage of a load of light horse dung .om our cities can be made to pay like it, doposited as it often is, by the way-side for months, "to wiste its fragrance on the desert air." Talk of composting not paying expenses: I should despair of reaping any profit from such an opposite course of manarement, until the earth can be brought to give something for nothing, as a writer some where has it. If our friends would call at the neat and clegant nursery establishment of Mr. Hovey, at Cambridge ; they would have the satisfaction of witnessing the process of composting in perfection; one thing quite certain, the garden culture, in all its branches, "is the perfection of good husban-dry."-Cor. Boston Cultivator.

The Guano in Gardens.-Perhaps it is not generally known that a slight sprinkling of guano is of essential service to leek and onion beds, when fainly brairded or above the ground. 'The experiment was tried last year, and proved eminently s:u cessful. In the same garden, during several preceding seasons, the worms and other insects had acquired a mastery that went far to destroy the entire crop; but after, and in consequence of the new application, the dustiest of pot-herbs, at lifting time and after, were found sound and good; in fact, not a few of them are so still. The powdering, however, should be skilfully light, otherwise the effects may prove hurtful rather than beneficial. Of the accuracy of the latter fact, we have ourselves seen instances in the case of fowers, a large portion of which were utterly destroyed from the over use of guano, an article which, in some respects, resemble salt and soot-both excellent antidotes to vermin, but which, if used with too lavish a hand, may render the cure worse that the disense. The prartice here recommended, has long been acted on in Peru and in its independencies, not only in gardens, but the open fields, in the case of a great variety of vegetables. When the plant, according to its nature, has reached a certain stage, $\mathfrak{a}$ slight ring is drawn in the soil around, guano apaplied for the purpose of absorbtion and the puncturings coverrd. There it remains for two, three, or more days, after which the ground is watered; and, if we may believe the testime ny of travellers, the effects are truly surprising.-Dumfries Courier.

Plovghing.-The experiment of ploughing with the heifer, has not yet been fairly tried among us. It is believed that a team of cows, properly managed, will do all the ordinary work of a small farm, and furnish as much milk as if the animals were not worked. The Maine farmer publishes the result of an experiment in working cows, made by a Mr. Hovt, of Amesbury, Mass., many years ago. He was a small farmer, cultivating only twenty five acres, from which he derived a support for himself and family. For breaking up and his other heavy operations, he usually obtained a stronger team, but performed the ordinary work on the farm with his two cows. He worked them three hours early in the morning, and three more late in the afternoon, permitting them to rest durius the interval, feeding them generonsly all the while, and milking them three times a day. It was a common remark that they furnished more .tter and cheese than any other two cows in town. The experiment deserves a carcful trial.-Worcester, Mass. Fgis.

Plodghing in Stubble.-If stubble is ploughed in, soon after reaping, it will soon rot and become manure; the sooner it is turned, the lighter
will he your land, and the nore servicalle will be your stubble. On plantmg in the following spring you will need to plough but once.-Mussaikusells Pioughman.

## HAY MAKING.

We think it best to cut grass for hay, as near as possible to the time when it is in fullest bloom. Of course, if it is cut when most of it is in this state, some may be little past, and some may not lave quite reached full bloom. We know there has therefore been some difference of opinio as to the stage grass should be when it is cut, but we believe the experience of the best farmers is in agreement with the position abr ctassumed. Those who are in the habit of erang herbs, cut them when in this stage, because it is known that they contain at that time the most of that peculiar principle from which they derive their efficacy and value. The saccharine of sugar principle, which constitutes one of the chief sources of nutriment in herbage, is found in the greatest quantity at the period of bloom. It may sometimes be expedient to cut grass before it has reached this state; particularly w sere it falls down, and is in danger of souring or stting. When this happens, it should be cut, whatever state it may be in, because if it remains on the ground it will spoil, and the fermentation which takes place, will destroy the roots. Another great advantage in cutting grass before the seed forms is, that the roots are not so much exhausted, and that after growth is much more vigorous.
In some parts of the country, it is the practice to mow the grass and let it lie untouched on the ground, "through sunshine and shower," for several days before it is stacked or put in the barn. It is quite common to begin on Monday and continue to mow till Saturday, when, with hand rakes and horse rakes, all turn in, take it up and stack it ; and this is done too, without much regard to the state of the weather at the time it is raked, or to what it may have been after it was cut. The appearance of the animals which are fed on hay thus managed, is evidence enough of its worthlessness.
After grass is cut and partly dried, it ought never to be exposed to dew or wet. The best way is to spread out the mown grass evenly, as soon as the wet has dried off from the spaces between the swathes, and before the dew falls in the evening, rake it and put it in cock. Where the crop is heavy, considerable time will be gained in making, by this plan. If ic is ouly wilted when it is par in cock, it will, in a shurt time, undergo a sweat, which will much facilitute its making when it is again opened to the sun. Many good farmers believe that it will make more in two days, if it is kept in cock twelve hours, than it will make in three days without being put in cock.
In making clover hay, we are decidedly in favor of not exposing it much to the sun after it is first wilted. We speak from experience, having practised various modes, and we are certain that it may be made with less labor, and that it is of far superior quality when cured in cock, than in any other way. When the swathes are a little wilted, pitch them into cocks-laying it up in such a manner that it will stand the weather, which is easily done by the exercise of a little care. Examme the hay from day to day, to see how the process of curing advances, and when it seems to be so well made, that with what it will dry in handling, it will do to put in the barn or stack, turn over the cocks, loosen up the bottoms a little with a fork, and proceed to load it, Clover hay thus cured, is not Jikely
to heat in the mow or stack, and from having every leaf and head saved, will be found to be very nutricious and much relished by all animals. In fact we believe that clover hay properly cured, will make more flosh, milk, or butter, than any other hay, pound for pound. The prejudice against clover, has arisen from the bad manner of curing it. Knocked about as it frequently is, wet and dried by turns, it loses its leaves and heads, and becomes Little else than a mass of tasteless stems, which no animal will eat.

Butrer.-.Vew method of obtaining cream from milt, by G. Carter, of Nottingham Lodge, near Lithum, Kent.-The process of divesting the milk $o^{f}$ its component portion of cream, to an extent hitherto unattainable, has been effected by Mr. Carter, and is thus detailed by that gentlenan in a paper presented to the Society of 1 rts.
A peculiar process of extracting cream from milk, by which a superior richness is produced in the cream, has long been known and practiced in Devonshire; this produce of the dairies of that country being well known to every one by the name of "clotted" or "clouted" cream. As there is no peculiarity in the milk from which this fluid is extracted, it has frequently been a matter of surprise that the process has not been adopted in other parts of the kingdom. A four sided vessel has been formed of zinc plates, twelve inches long, eight incies wide, and six inches deep, with a false bottom at one half the depth. The only communication with the lower apartment, is by the lip, through which it may be filled or emptied. Having first placed at the bottom of the apartment a plate of perforated zinc, the area of which is equal to that of the false bottom, a gallon or given quantity, of milk is poured (immediately when drawn from the cow) into it, and must remain there at least for twelve hours. An equal quantity of boiling water must then be poured into the lower apartment through the lip. It is then permitted to stand 12 hours more, (i. e. twenty four hours altogether, when the cream will be found perfect, and of such consistence that the whole may be lifted off by the finger and thumb. It is, however, more effectually removed by gently raising the plate of perforated zinc from the bottom, by the ringed handles, without remixing any part of it with the milk below. Wito this apparatus, I have instituted a series of experiments, and, as a means of twelve successful ones, I obtrined the following results:
Four gallons of milk, treated as above, produced in 24 hours, $4 \frac{1}{2}$ pints of clotted cream; whicl., after churning only fifteen minutes, gave 40 ounces of butter. The increase in the cream, therefore, is $12 \frac{1}{2}$ per cent., and of butter, upwards of 11 per cent.
The experimental farmer will instantly perceive the advantages accruing from its adoption, and probably his attention to the subject may produce greater results.
Coring Butter.-A writer, signing himself "Old Dutchess," says butter should be cured without the aid of water. "The practice I recommend," says he, " from long experience, is as fol-lows:-When the butter comes from the churn, put it in a clean wooden bowl, and with a wooden butter ladle proceed to work it, by breaking it down at the sides and turning off the whey which is separated in the process; at the same time strew on the salt by degrees, so that it becomes intimately incoroporated. Continue working it thus until the buttermilk is apparently all worked out. Put it then by in a cold cellar till next morning, by which
time the salt is dissolved, when the lade is to be again applied, and continued as long as any buttermalk can be separated. The butter is then fit for use or laying down. F'or preserving, stone-ware juts are preferable, as they impart no taste to the butter, and exclude the air. Pack down the butter without any salt between the layers, and cover with tho inches of strong brine, previousl; boiled, skimmed and suffered to become cold. If a scum should atterwards appear on the brine, which will sometimes happen in damp cellars, renew the pickle. The impurities which rise to the surface while boiling, or are found in the residuum at the bottom, are far greater than any one would suppose who is not in the habit of boiling his brine for meats, butter, \&c. Butter thus manufactured and cured, will keep a twelvemonth or more perfectly sweet, and the rich delicacy of flavor imparted to that made in May and June, by the young herbage, will be in a great measure preserved. It is compact, without being too adhesive; cuts with n sinonth surface, and shows neither lumps of salt, buttermilk, nor crumbles."-Nev York Farmer.

To Kila Fifes in a Cueese-Room on Elese-wherf.- Checse-rooms are frequently kept close and darkened. to keep out the flies, as the dairy maids says. Mr. Livesuy asserts that this practice is ruinous to cheese, may be avoided by occasionally boiling a penny worth of quassia chips in a pint of water, sweetening it, and placing it on plates abnut the room. It will destroy all the flies that taste it. Cheese, he says, being an animal matter, cannot have too much air. I have noticed that those cheeses which have been kept in a large, well aired room have been quite sound ; while those kept in a close, ill ventilated room were either faded, or bad in flavor. Though cheese should not be kept in too high a temperament, yet they will bear the summer heat very well, provided they have a constant supply of good air.

African Guano.-We copy the following from the Commercial Advertiser, (a Cape paper of May 4 :-" By a letter received from Ichaboe, one of the guano islands, near Angra Peguena dated the 9th of April, it appears that the trade in threc commodity is brisk, no less than 37 vessels being at that time loading at one of these islets. Thev had been for the first time visited by about 20 of the natives, who were in a very wretched condition, The writer states-[ have not found the difficulties here half so great as represented, and if my men had the choice of going on shore to work guany, or to remain and scrape ships' sides-the formier vould be preferred by many. The unpleasant part here is the long tume that some hav ta work for other's vessels, to entitle them to a pit to work from. This is an arrangment amongst the masters of vessels. There are 37 of us here now and there were only 23 when we arrived. In nere are seven or eight more in Angra Peguena, which will be down in a day or two, but they must arrive fast to increase upon the present number, as vessels now load much quicker than formerly. The stages are much better secured now, and the sarne sum which they cost can always be obtained when leaving. There is also some talk about gold dust, or ores containing gold, being found on these islands, and considerable quantities of this inaterial have been shipped by some of the masters of vessels. The guano, is, however, the better material of the two.

Cure for the Mange in Swine.-Give, them sulphur in their food, and wash them in soap suds.

Common Chancoal.-It is stated by Dr. Lece, in an auricultural address delivered in Western New York, that common charcoal is the cheapest, and therefore the best material to apply to cultivated fields for fixing antl appropriating to the use of plants the large quantities of ammonia which descend in rain and snow. It will absorb 90 times its bulk of ammonia, and will wive it out slowly to the vital attraction of roots ol' plants. 'Ihe liberal application of this well known substance to the wheat fields in France, has mainly, in comection with the use of lime, added within the last ten years, $100,000,000$ bushels to the amman crop of wheat grown in the kingdom. The charcoal should be sown down in May, at the rate of 75 busibels peracre, well pulverized. It woald, undoubtedy, be equally useful to other linds of arain. There are many places where other mamures are not casily obtained, but where charcoai is cheap; farmers so situated wond find it ereatly for their interests to resort to its use.

## LIQUID MANURE.

We have stated that the solid matter centained in the urine of man and amimals is equal to the best guano as a fertilising agrent, and that it contains all the elements that are fomed in gumo, capaible of supplying plants with either organic or inorganic fuod. That such is the case we are prepared to expect, when we reflect that the herbivorons ammal derives its sastenamee from the plants used hy it as food, and that, after those substances which are reguired in the animal economy are separated and worked up, the remainder is expelled from the body as excrementitious matterthe urine containing the greater portion of the soluble saline and eathy salts, as well as the principle amount of nitrogenous matters-while the solid excrements are principally made up of undigested woody fibre, witha few salis and a little nitrogenous matters. All these selts having originally existed in the plant, but been separated and rearranged during their passage through the anmal, they are capable of again entering the texture of the plant, ministering to its growth, and assisting as a means of perfecting its seed. Before such can be the case, however, the substances must be in a state of perfect solution in water, the ronts of plants being incapable of receiving into their texture any solid matter, howeter minutely divided. Hence the cause of the rapid and marked benefit following the application of solubie saline manures, such as the nitrates of potash and soda; or mised manures contaming soluble salts in combination with sabstanees which mast undergo decomposition before they become soluble, and capable of ministering to the growth of plants. This fact should always be horne in mind, that no substance can enter the texture of a plant except insolution. From the above circumstances it necessarily follows that the liquid portion of the excrements must be of more value as a manure to plants than the solid portion, since the Jiquid excrements contain by far the largest portion of saline and nitrogenous matters, and in the only state in which they can be scrviccable to plants. The composition of the urine of the cow will serve as an example to illustrate this point; at once showing the large amount of polash, soda, ammonia, phosphates, and other saline ingredients last to the farmer who allows the urine of his catale to run into the nearest ditch, or by finding its way into his horse pond, to become the disgusting beverage of his farm-yard stock.

The following is the composition of the urine of
the cow, as given by Sprengel, and examined under three circumstances, viz., when fresh-after it has undergone putrefaction-and when allowed to putrefy with the addition of its own bulk of water.

Putrefied


By far the largest portion of the organic constituents contamed in the solid matter of the urine is the urca, and this also is the most important, since it contrins a larger amount of nitrogen than flesh or blood,-two powerful manures. It is composed of

| Oxygen | - | - | 20.7 |
| :--- | :--- | :--- | ---: |
| Iijirenen | - | - | 6.5 |
| Carbon | - | - | 20.0 |
| Nitrogen | - | - | 46.7 |
|  |  |  | 1000 |

When in a state of purity, the urea exist as transparent colomiess crystals of a slightly pearly lustre. It delqquesces in a moist atmosphere, but otherwise undergoes no change. Its solution in water may be exposed to the atmosphere for several months, or be neated to the boiling point without change; but when the other constituents of arine are present, it putrefies with rapudity, bemg almost entirely resulved mio carbonate of ammonia; this change proceeds at a more or less rapid rate, depending on the temperature of the atmosphere. The carbonate of ammonia thus formed is partly held in solution in the water of the urine, and partly escapes into the air; this escape of ammonia continuing for a considerable time, the solution becoming gradually weaker and weaker until at last a very small purtion of the original quantity is left. The ammonia thas generated by the decomposing urea of the urine is sensibly felt on the eyes and nose on entering a stable in the morning that has been closed during the might, and is frequently the cause of those mflamatory affections of the eyes which young horses are subject to, from its acting as a direct and constant arritant on the delicate conjunctival membranc of the cye.

When the urine is diluted with an equal bulk of water before it is allowed to putrefy, a much larger quantity of aminonia is retained in solution; thus, on referring to the nnaissis, we find that when the urine is allowed to putrefy alone, only 4871 bs. of ammonia are found in 100,000 of urine; but when diluted with an equal bulk of water previous to fermentation, the amount of amonia is found to be 1022 pounds, or upwards of three times the quantity contained in the undiluted urine; but even this is not the whole quantity of ammonia capable of beind yielded by the urea, by one-faurth;
since 100 parts of uren ought to yieh, by their decomposition, $50 d$ parts of ammonia.
it is to the ammonia generated in the soil by the slow decomposition of all anmal manures that much of their eflects on crops are to be ascribed. 'lhis is particularly the case with good guano, whech contains so large a portion of those substances capable of yielding ammonia to the growmg crops; yet how little attention is bestowed by the practicle man on the urea, which, as urine finds its way out of his fold-yard, in solution in water, to the nearest ditch, and often to his horse pond; or takes to itself wings afer fermentation, in the stape of ammonia, and, unseen and unhecded, passes of into the atmosphere; and thus the means of realising hundreds of puunds, which in many instances can be but ill-spared, is totally lost to the farmer.

The Iforse-hts Managemeyt.-Of gioss and direct cruelty to your animals, I have no tears of your being guilty; but there are other cruelties which may pass under the milder name of neglect, aganst which I would warn you earnestly. For that nan stands low in my estiunation, who is careless of the comfort of his cattle, and especially of his companion and servant-the horse. I trust you will adopt the rule which I have endeavoured to follow, as your maxim: I will treat my horse as I think I would like to be treated were I in his place! Allow me to drop you a few hints which may contribute to your accomplishnent of this benevolent purpose.
When you purchase a horse, endenvour to find out how and upon what he has been kept-how he has been fed and otherwise managed. This it is important to ascertain, for you cannot make any sudden cianges in the mode of management without disconfort to the animal and risk of injury. If a horse has been grained higher than you mean to, you must reduce the quantity of grain very gradually, and not, by any means, aill at once. Igain, when you take your horse from grass in the gutumn, they should not have totally dry diet all at unce, hut should be gradually accustomed to it ing giving them ronts and mashes with their hay. Begin likewise with a small quantity of oats, and gradually increase the quantity until you arrive at their wonted or intended allowance.
Feed your animals, your horses especially, as regularly as you seed yourself. Have certain hours of feeding; and do not deviate from these. Your horse, as well as yourself, will not feel so comfortable if feeding is postponed long after the asual hour.
Yake no sudden changes, as I have said, in the quantity and quality of your horse's food, but at the same time accommodate the food to the exercise and fatigue which the horse has to undergo. Even if there is a rather sudden change in this respect, you change as to the quantity and quality of the food should be gradually accompl:shed. I am conrinced, from errors and injudicions management in this respect, many discases are entailed upon the horsc.
All grain would prove more nutritive, if ground or chopped up. Some horses, however, cher up their oats much better than others. A good substitute for grinding the grain when that is inconvenient, is to mix with the grain a quantity of finely chopped s'raw. If the straw is coarscly chopped, you may probably ind, as I have done, that 3our horse can pick up all the oats and yet leave a very considerable portion of the straw.

Let gour horse be drisen rather slow at starting,
especially if just newly fed or watered. Inerease his speed by degrees; and if warm, when within a mile or two of his journey's end slacking his pace and let him cool down some what before being stabled.
Cure for a Foumpmed Horse.-I send yne the following prescription, of which you may give a place in your uscful paper if you think it will be of any advantage to farmers and travellers:-
As soon as your horse is foundered, bleeut him in the neck in proportion to the greatness of the founder. In extreme cases you may bleed him as lone as he can stand up. Then draw his head up, as common in drenching, and with a spoon put far back on his tongue strong salt until you get him to swallow one pint. Be careful not to let, him drink too much.-Then annoint roumd the edges of his hoofs with spirits of turpentine, and your horse will be well in one hour. A fomder pervades every part of the system of a horse. The phlegm arrests it from the stomach and bowels; and the spirit arrests it from the feet and limbs.

I once rode a hired horse nincty miles in two days returning him at night the second day, and his owner would not have known he was foundered, if I had not told him and his founder was one of the deepest kinds.
I once, in a travel of 700 miles, foundered my horse three times, and I did not think my journey was retarded more than one day by the minsfortune, having in all cases obsen eal and practiced the above prescription. I have known a foundered horse turned in at night on green feed, in the morning he would be well, having been purged by the green feed. All founders must be attended to imnediately.
Hraves in Horses.-Moistening the hay or grain for horses which have the heaves, has a grood effect. We see a communication on this suliject in the Wilkesbarre (Pa.) Advocate. The writer says he had a favourite horse which was much affected by this disorder. He happened to have a common horse-pail about half full of white-wash. He filled the bucket with water, and left it to settle. He moistened with this water two quarts of cornmeal, morning and evening, which he gave the horse-filling up the bucket with water occasionally. In less than a week, a change for the better was manifest in the horse, and about two years after, he sold him as perfectly sound.

Cuting Grani--The American Agriculturist says, that when the herry of grain of any kind has well filled and just begun to glaze, so that passing the cud of the thumbnail over it leaves a slight indenture, is the best time for cutting. A friend in Massachnsetts informs us that he made this his test in cunting his rye last year, and that the fiour made from it was whiter and sweeter than any he had ever harvested before, there was more of it also per bushel, and less bran. This lonks reasonable; for it is asserted that after this stige, of the filling of the berry, longer standing only tends to change the flour into a uhicker rind of the grain, and consequently forms more bran. In the case of our friend's rye flour above, he observed that it was nearer wheat than any he had ever tasted. Two others important consideratinos in cutting carly force themselves upon us. Ist. We lanve more time for harvest, and we are more forward with our work. 2d. The grain shells scarecly at all, there is consequently little or no loss from this source. 3d. Since the introduction of machines for cutting into general ase for
fodder, and the straw saved by early cuttin $r$ proves preatly more nutritive and palatable to the stock than that cut late. Wherefore we earnestly entreat our farmers to pay greater attention to the early cutting of their $\because$ rain than they have heretofore been in the habit of doins.

Suerp Tick-Arcarus Reduvius.-To destroy this troublesome and injurions animal, that infests so many of the flocks of sheep in all countries, some writiers have recommended a wash made of

Aisenic finely pounded, one pound,
Totash, 12 ounces,
Common soup, 6 ounces,
Rain or river water, 30 gallons.
The ingredients to be boiled together for fifteen minutes, and the luquid, in dry weather applied by pouring through the spont of a tea-pot or similar vessel, on the wool, which is rubbed at the time to facilitate the absorption or passage of the fluid through it. This dressing applied twice a year is also security against the ateacks of the fly, which by depositing their eargs on the stin produce worms and sores, often very troublesome.

We have never found it necessary to resort to such applications to clear our sheep from tichs, and have at shearing scarcely found one for years. "The flock is a small one, varying from one hundred to one hundred and fifty, yet the means to which this exception is attributed would be equally applicable to larger flocks. We have for a longr tume been in the habit of usiag common soap pretty liberally at the washing of the sheep, and to this we think the absence of the tick is to be credited. A large tub is used for washing, into which a small stream from a brook is conducted, and the time is chosen after a heavy spring rain, that the water may be as soft as possible. The sheep is put into the tub and a handful of soap is rubbed in;to the wool of the neck and back of each one put in. The grease, scum, and filth floats over the top, and as the stream flowing is not large, the water in which the animal fioats soon becomes a strong suds, cleansing the wool most thoroughly, and proving fatal to any vermin that may be about the sheep. The wool of sheep washed in this way will be very white and clean, but they should be allowed to lay in a clean grass pasture for a week or ten days, that the fleece inay become again saturated with the animal oil so essential to softness and flexibility.

Wool washed in this way will be free from ticks, and though it may not weigh quite so much as if one-half of the dirt was left in it, yet its superior appearance and quality, will secure a compensating price. If there are ticles in a flock it is best to wash or wet the lambs also, or the work will be but half done.

Age of Sheer. - The age of sheep may be known by examining the front tceth. They are eight in number, and appear during the first year of a small size. In the second year the two middle ones fall out, and their place is supplied by two new teeth, which are easily distinguished by beinr of larger size. In the third year, two other small teeth, one from each side, drop out, and are replaced by two larger ones; so that there are four jarge teeth in the middle, and two pointed ones at each side. In the fourth year the large teeth are six in number, and only two small ones remain, one at each end of the range. In the finh year the remaining small tecth are lost, and the whole front teeth are larger. In the sixth year the whole begin to bo worn; and in the seventh, sometimes
sooner, some full out or are broken.-Mountain Shepherd's Manual.

## WASTEFUL MANAGEMENT OF MANURE.

Some idea of this my be gained by analogy. Let us imagine that a farmer keeps three teams of horses, who consume, say two quarters of Oats per week. Let the farmer give one quarter each week th the horses, and dispose of the other quarter as follows:-There may possibly be some ruts in the road leading to and from his farm yard : let hin pour as many as possible of the oats into every one of the horseholes and ruts of this road, beginning at the gate of the yard and proceeding to the nearest turnpike-road. Phere may seem much trouble in all this, but nothing valable can ever be gained or done without trouble, and this experience will probably always be conclusive. Some farm-yards are nicely drained, and very frequently the drains run into the horse-pond. Let the farmer insist on one of his laborers (who may possibly have some prejudice against it) pouring a geod drill of oats into every drain that leads out of the yard till it arrives at the pond, where he may throw in a bushel or so, and if the drain terninates, as drans sometimes do, on a hard road, let him leave a small heap of oats in every black puddle. When he shall have done this, let him cause some of the oats to be scattered in every direction round his stable, and take every possible precaution so that the birds of the air, the mice and rats of the field, the fishos of the ponds, and the creeping things of the earti, may come in for a share of the oats. The farmer's neighbors may call him mad, but let him not mind this. Ulysses was formerly called mad for sowing salt, but now, many people sow salt who are considered sensible, and even clever. Let the enterprising improver keep perseveringly on with this practice for-say three weeks. On or about this period, the ribs of each of his three teams, when $i$ ' single harness will probably form a very respectable representation of park paling. At this point it is time to panse, and seriously ask himsclf the question, whether it is wise for a man actually to facilitate the waste and destruction of produce which it cost him much money to gain, and the economical management of which will produce more money. That which we have imagined it probable for a farmer to do withh is horse-food is not a bit more unwise than the practice of some slovenly farmers with respect to their manures. What oats are to his horses, manure, and especially the liquid and gascous portions of Manure, are to his fields. Every atom of earth which comes into contact with his dung, preserves for it some of its fertilising virtues, yet he keeps it for a year uncovered with mould. Every breath of air that passes over it becomes the vehicle for carrying the volatilc grases, in which plants delight, from the farmer's dung yard to every body else's field ; yet he keeps it for a year uncovered with mould. Every drop of rain which falls from the heavens dissolves some of its most valuable portions, and conveys it away to loss; yet the good man never thinks of sinking a tank, in order to preserve a substance every pound of which, Leibeg tells us, will suffice to grow a pound of wheat. Noching can show more clearly than this national waste, the necessity of men being made acquainted with the laws of nature, which can never be transgressed with impunity; which corabine to ruin every man that regards them not;-whilst there is not one law amongst them which, if understood, may not be made the ready and willing instrument of his will.

Kemedy for the Bots.-Having seen many horses die with bots, and many remedies given without effect, 1 was induced by a merchant in Cambridge, to try the following for a horse of my own, after I had tried most of the remedies in common use without effect, and had given hum up for lost:-Half-pint vinegar, half-pint solt soap, half-pint gin, and half-pint molasses, well shaken together, and poured down while foaming. To my great surprise the horse was in five minutes wholly free from pain, and ate frecly. The next morning I was on my journey. I have since recommended and given the same in pe:haps fifty cases with the same good effect; not in one instance has it failed to effect a perfect cure.

Another.-To make the bots let go their hold, give the patient a quart of molasses or dissolied sugar, with a quart of sweet milk. In half an hour you will fund han at ease. Then ptlverise two ounces of alum; dissolve in a quart of warm water anal give as a drench. In two hours or less. administer one pound of salts, and you will effect a cure. I have never known this remedy to fail.

Ciarlic a prcventive against Rats and hise in Gircin Stacis.-A farmer in this neighbourhood has, for some time past, put garlic in the boitom of his grain stacks, and since he has adoped thet plan, has neve: been troubled with vermin. Before adopting this plan, on tahing down a stack of grain the assistants never killed less than from fifteen to twenty rats, and above a hundred mice. This is a very simple, cheap and effectual method of preserving grain in stacks.

Worms on Cablage.- These pests of the garden may be destruyed by taking off one of the large lower leaves of the cabbage, about sundown, and laying it on the top of the plant, backside down. Take it off early in the morning, and the whole or a large part of the worms of that cabbage will be on it, and may be destroyed at pleasurc.

To save Oats in feeding Horses.- Bruise or crush your oats in a mill, or otherwise, as consenient, and your horse will become fatter on halfhis usual allowance than on double the quantity unprepared. If you cannot bruise the oats. pour hot water on them and let them soak for a few hours.

Cure for Burns.-Aiter opening the vesticles, if they are formed, dip the part in cold water, and then plunge, still wet, into flour, keeping it there for a minute or two, by this means a ccrtain quantity adheres to the part and prevents the access of the air. It is remarkable that the flour falls in scales from the surrounding parts the next day, whilst on the burn it remains adherent.-Medical Times.

Crultioation of Onions by the Tartars.-Instead of raisting them from seed, in which they do not succeed. or which appears to them too long a process, they dry and smoke in a chimney those which they wish to propagate, and in the spring when the time to plant them is arrived, they cut them diagonally into quarters, but so as not to separate the pieces entirely one from another. They set these onions in rows, when thus prepared, in good soil, well dug, but not freshly mannred, at about ten inches from each other, and two inghes decp. These onions increase extraordinarily, and grow large and strong.

Cemert to Alend China or Glass.-Garlic stamped in a stone mortar; the juice whereof when applied to the pieres to be joined together, is the finest and strongest rement for that purpose, and will leare little or no mark if done with care.

Pickling.-General directions.-Brass should be used for vessels in the process; thoroughly gleansed before using, and no vinegar allowed to cool in them. This precantion is necessary to prevent the formation of verdigris. an active poison. Boil alum and salt in the vinegar, in the proportion of half a tea cup of salt, and a spoonful of alum to three gallons of vinegar. Vessels that have any grease about them will not do for pickles. Stone and wood are the ouly proper materials in which to keep pickles when made. All pickles should be stirred up occasionally. When any seam rises, the vinegar needs scalding. Pickles may he spiced or not at pleasure; and when the vinegar betomes weak from use, it may be thrown away and fresh vinegar substituted. Good, but not the sharpest vinegar, is the best for pickles.

To save Cucumber, Squash ard Miton Beds from the Iellow Bug.-For eacht hill cuit say a dozen alder sticks about a foot long, split one end andinsert a tuft of sheep's wool, fincly spread out. Set these out around the hill so that the wool from one will just meet that of its next neighbur on the curcle. The bugs will always alight on that hefore descending to the ground and the plant; the wool entangles their legs, and then they are unable to go further.

To pieserve Eggs.-l'ut a layer of salt into a jar, and stick the eggs into the salt, point downeards, till a layrer of eggs is made. when more salt is put in, and agan a layer of eggs, and so on successively till the jar is full.

Weat Eyes.-Wash the eyes frequently in cold water if they are in the least inclined to weakness. Make a wash by pouring water over a jar full of rose leaves; let it stand all night, and then strain the water. It will be found excellent for the eyes, and should be used frequently. A poultice made of rose leaves is good for a stye upon the cye-lids. If the eyes are very weak, boil a handful of freshly gath:ered salad in a pint of water, strain it and apply the lịuor to the eves at intervals. It will be found very soothing. A poultice of boiled salad leaves will also relieve severe paia in the eyes.
Fallening Fowls wilh Potatoes.-There is a great profit in feeding geese, turkics, and fowls of every sort with potatocs and meal mixed. They will fatten in nearly one. half the time that they will on any kind of corn, or even meal itself. The potatoc inust be bruised fine while hot, and the meal added when the mash is given to them.

To wash WVolen Goods.-All descriptions of woollen goods should be washed in very hot water with soap, and as soon as the article is cleansed immerse it in cold water, let it then be wrung ont and hung up to dry.
Beet Pies.-Pies made of ied sugar bect are sain to be delicious-somewhat resembling rhubarb pie in flavor, though more rich and substantial. It is sensoned with vinegar, sugar and spices, to suit the palate. The root may be used mithout boiling, being chopped finc. Prepare the crust and bake as you would a green apple pic.

Butler.-A French writer says that to procure butter of an exquisite flavor and extreme delicacy, after washing it till the water runs quite elear, you must wash it in new milk.-The cream of the new milk becomes incorporated with the butter and communicates to it sweetness and delicacy.
Drop Caiks.-One quart of milk, a large tez-sponnful of salermtus, dissolved in a cup of cream: to which stir in flour very smoothly until a thick batter is formed. Then dip your spoon in milk and with it place your batter at short distances in a buttered pan. Very delicatemade entirely of cream, either with or without ezge.

Weens.-War, uncompromising and constant, should be waged by every farmer against these insidious and troublesome pests. Down with them, or up with them-if you don't they will exhaust your suil more than your crop.-and what is worse, if you give them the privilege of seeding, they will infest your land the second year twice as thick as they did the first. "One year's seeding, makes seven years weeding," is an adage which many a farince has found troe to his cost. But if attacled in season, and lept down at any rate, they are shorn of hulf their terrors.

What looks more ungainly--what is a stronger indication of a slovenly and thriftless farmer to a traveller in the road, than to behold amoner the crops in the fields, huge, towering weeds, usurping the place of useful plants, thriving at the expense and exhausting the life-blood of the valuable grain, or whatever may be the crop into whose company they have intruded theinselves.

No man who sets any value upon his reputation as a farmer, or who looks well to his interests, will permit weeds to encumber his ground, when, by the exercise of well expended labour, he can get rid of their unwelcome presence.

A weed is as loathsome to us among a promising crop, as a skmlk would be in our green house. They are hateful because both useless and injuri-ous-and the man who per:nits them to flourish in his cultivated grounds, without vigorous efforts to extirpate them, is not deserving the name of a good husband nor a good neirhbour. No man has a right to keep a nuisance on his premises to the annoyance and injury of his neighbour-and weeds, if suffered to seed, have this effect. "War to the knife, and the knife to the hilt," is the spirit which shonld actuate every farmer in the treatment of weeds. It is a christian warfare to figlit them as common enemies to mankind, and show them no quarter. Though it costs considerable to lieep them down, it costs more to let them grow. - N. 2 . Farmer.

Manure of Fowis.- We regret to see so little attention paid to the saving of pigeon and hendung. The manure of any kind of bird is extremely valuable for growing melons, or indeed vine crops of any lind. Cucumbers, squashes, pumpkins, and eipecially melons, grown with hen or pigeon dung, are said to be sweeter and more delicate than those from any other manure what-ever.-Anerican Agriculturist.

Yeast.-Boil one ounce of hops in four quarts of water until the hops fall to the bottom of the pan; strain, and when mill-warm, add six ounces of flour and five of sugar; set the misture by the fire, stirring it frequently, in 48 hours, add four pounds of potatoes, boiled and minced fine: next day botule the yeast-it will keep a month. One fourth of yeast and three of warm water is the proportion for bahing.- " ${ }^{\text {B }}$ "The editor of the Gardncr's Chronicle states that he has tried this recipe and found it good.]

To Remove Grease Spots.-We copied into a Farmer a short time since, from one of our exchange paper, a recipe for removing Grease spots from cloth, by applying the yolk of an egg, and washing afterwards with warm water. This has since been tested in our own family, and found completely successful. "Keep it before the peo-ple."-Few are so fortunate in keeping themselves "unspotted from the world," as not to soil their garments with grease.-.V. E. Farmer.

## CHARLOTTE COUNTY.

The Agrmentiveay Sociffy will hold a Shour and Fair, at the farm of John McDouall, Parish of St. Andrews on Saturday the 21th day of October next, at 11 n'elock, where the following Premiums will be offered for Competition, viz:
For the best entire Horse that has stood in the comity the past season, fy 0 necond ditto,
hest hlond Atare,
2t do. ". ".
3il do. "
For the best Bull not over 4 years old, serond best, do. do., third " do. do.,
" the best milch Cow, do. secand do. do. third " do. do.
For the best pair of Steers under 14 years old, $\begin{array}{lll}\text { second } & \text { do. } & \text { do. } \\ \text { third } & \text { do. } & \text { do. }\end{array}$
For the best Heifer under 3 years old, second do. do. For the best ham not over 4 years old, second do. do. For the best Fwe.
serond do.
third do.
For the best Bgar,
scend do.
For the best Sow, sirend do. $\quad 0$ in $n$
third do.
GRAIN.
For the beet sample of not less than five bushels of whent.

1) $1: 8$


For the best sample of not less than five mashels of Oats.
second do,
$010 \quad 0$
third do.
076
For the best sample of not less than five bushels of Barley,
second
do. 0126
second do. . 0100

For the best firkins of BCTTER not less than dollis.,
do.
0150
2d. do. do. $010 \quad 0$

For the best sample of CHEESE not less

| than Jollbs., |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 2.1 | do. | do. | 0 | 15 |
| 0 | 0 | 0 |  |  |

HOMESPUN CLOTH.
For the best sample dyed Woolen Cloth
not less than 15 yards, 0150

| not |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| second do. do | 0 | 10 | 0 |
| dind |  |  |  |

For the best sample of Flannell, (all wool)

| 15 |  |  |  |
| :---: | :---: | :---: | :---: |
|  |  |  |  |

second do. do. 010 0

For the best sample of cotton and Wool on 0

| Cloth not less than 15 yards, | do | n | 1.5 | 0 |
| :--- | :--- | :--- | :--- | :--- |
| sernnd | do. | do. | 0 | 10 |
| third | do. | do. | 0 | 7 |

The whole of the abowe must be the growth, produce, or manufacture of this County;-(no one person to receve two premiums on any two animals of the same decription.) and intending competitors must notify (frec of postage) at least 10 days previous to the Fair, of the aniinals or produce that lie intends to offer for competition, and all persons not paid up Members of the Society to the last annual Miceting, must pay an entrance fee of 5 s . or not compete; and no animal, or any article of produce. or manufacture, will receive a l'remium, unless thought worthy of such preference by the respective Committees to be appointed for that purpose. It is fartiner ordered that alf animals, articles of produce or manufacture of fered for competition, shall be on the ground by 11 o'clock, orthey will not beattended to,

By order of the Boaid.
D. D. MORRISON, Scig.

St. Andrews, July 15th 1orts.

NEW CHEAP SHOE STORE.


TGTHE Subscriber most respecttully informs his friends and the publie: generally that he bas taken the Shop next above AIr. Harvey Garcelon's Store, where he intends carrying on the business of Boot. Shoe Making and Leather Cutting, and flatters himself that by a strict attention to busimess, he will receive a share of the public patronage.

13OO'TS and SHOES of the best description constantly on hand, at the very lowest prices possible, and any deficiency in the workmanship will be made good free of expense. (ientlemen's Dress BOOTS, Walking SIIOES and PUM1'S, made to order at the shortest notice.

Sole Leather, L'pper Leather, and Calf skin, of the very best quality, elther wholesale or cut in any quantity, and will be sold as low as can be bought in town. (ircen Hides, do. Calf shins will be taken in corhange.
03 Ihe Subsergiber can asaure those who fivour him with their cusiom, that for neatness aud durability, his work will not be surpassed by any in the Province.
( E EORGECOLLTARD.
Fredericton, May 29, 1814.

## FIRE! FIRE!!

FW. HIIIHEW.AY, Agent for the Protecrion Insumisef Compasy, continues to Insure Property of all descriptions against Loss or Lamage by Fire, at very low rates, so that parties for a very small sum may keep their property safe. which. in case of any accitent, would prove of great importance to them and the amount of Preminm would never be missed should they be fortunate enough to escape the devouring element. Personal attendance to survey free of expense to applicants within the limits of the Town. Applicants from the Country must describe the I'roperty wished to be Insured, and mast always be bound by the description they give Fredericton, 17 th November, 18 lis.

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## FOR COUNTRY WEAR.

T
PHE Subscriber has just received alarge lrt of Men's. Women's Cirl's, Boy's, and Children's strong BOOTS and SHOES, suitable for Country wear. for sale at very low prices for Cash, at

FOSTER'S Chcap Nhoe Store,
Quecn Ntrect.
Fredericton, June 11, 184.4.

## FLOUR, MEAL, \& CORN.

Just reccived ex Barque Margaret from Philadelphiu:

400 BAPRELS Rve FLOCl: 5000 Bushels Yellow CORN.
Constantly receiving from the Botsford Mills.
Superfine, Fine, and Middlings Wheat FLOUR, in Barrels and Bags;
Fresh ground CORN MBAL, in ditto, ditto; HORSF FEFD \& BRAN.
li
J. \& R. REED.

Saint John, July $20,1814$.
WHEAT \& RYE FLOUR, CORN MEAL, \&c.

TVHE Subscriber offers for sale, Superfine and Fine FLOUR, Rye Flour and Corn Mcal, all fresh and a good article; English and American Scytifes, Sventus, and Rakfs, Stones and Rifles.-Low for cash at No. 4, North side King street.

Saint John, July 18th, 1844.
JOHN T. SMITH.

## WINDOW GLASS.

TVHE Subscriber offers for sale 3000 feet of Window GLASS of various sizes, from $7 \times 9$, to $14 r 20$, in any quantity from a single square and upwards, at as low rates as can be found in the City, with a general p:ssortment of Provisions, Groceries, \&c. Persons wishing good articles at low prices will please call at No. 4, iNorth Side ot King Strect.
Saint John, July 3, 1844.

## Corner of Regent and Rrunswick Strects,

 near the Artillery Park.THF Subscriber begs to intunate to his friends and the public that the above Eiscabiensumf:nr is now open for the reception of Visitors, and he fatters himself that from his long experience in the Business, together with the additional accommodation which be can now afford; he will be able to accomodate visitors to Fredericton in a style inferior to none in the Province. The IIotse has been built and fitted up for the purpose of an Hotel. The out-door establishment is extensive, and when completed, will be superior to any in New Brunswick. A Coach will be in attendance to convey those who patronise the FREDERICTON HOTEL, from and to the Steam Boat landing, for which no additional charge will be made. Charges at this listablis!ment will be found as moderate as any other in the country for the like accomodation.

WIL.LIAM SECBEF.
Fredericton, May 22, 1814.

## FOR SALE.

AValuable Preperty on Queen Strect, (near the Subscriber's store, on which is a good Dwelling Housf: and a neat Srone, all nearly new, formerly owned and now occupied by Mr. W.S. Estey. For firther particulars apply io
W. J. BEDEL.L.

Fredericton, April $21,1814$.

## BOOTS AND SHOES. CTIEAR Fabic casiti

 Prabl Public are informed that the Subscriber carrics on the business of BOOT AND SllOE Making at his Establislment in King Street, where he will Le happy to receive orders.
Gentlemens' finc Distss and Warking Boors, made of the best material, and by first-rate workmen, for I'wenty Scren Shillingrs and Sir Pence.
Ladies' Shoes from Five to 'I'cn shillings.
Sraong Bonrs and Shofis at proportionate prices.
03 Business punctually attended to.
WILLIAM F. BAREER.
Fredericion, July $21,181 \mathrm{t}$.
Thaning. Currying. and Leather Cutting, also carried on by the Subscriber, on reasonable terms.

## JUST RECEIVED

By recent arrivals and for Salc by the Sullscriber, At No. $20_{3}$ South Wharf, St. John,
TGONS LOCBHOO ;
23 Boxes patent Wheel Ifeads;
50 Lezen Corn Brooms, (American,)
20 do. Whisps;
8,000 fect $8 \times 10$, and $10 \times 12$ Glass ;
200 sides of sole LEAS'THER;
G dozen Calf skims;
4 do. Kip do.;
200 lieavy IIides, (dry salted,)
1 bale Native ditto. ;
200 barrels Rye FLOUR, Corn MEAL, and Wheat FL.OUR ;
60 quintals COL and POKLOCK.
ALSO IN STORF-
Teas, Tobacen, Pork, Nails, Pails and Brooms, (domestic.)

COLIN J. CROSS.
St. John August 1, 10.4.

## FLOUR.

Constandly on Juend from the Bostford Mills, ©UPERFINi: Flour, of an extra quality-warranted superioz for Baiecrs or Family use. Fine and Midlings Flour, Horse Feed and Bran-for sale low by

Saint John, May 50, 1844.

## MONEY WANTED.

UNQUESTIONABLE Security will be given on Real Estate. to double the amount of money required, for a few hundred pounds.- Particalars made known on application at the IIcad Quarters Office.

August 15, 1814.

## Saint John Agricultural Society．

$\mathbb{N}$OTICI：is hereby geven，that this socirty offer for cumpetition the lollowny I＇reminms，whin hill he： awarded at a Fur，to be held at the eity of Saint Johm， on day in September or October neat，to be herenfer named：－
For the hest entire Horse，between three and six years of age．fit for farming purposes，owned in the Count， and to remain therein or the next season，
For the best three year old Bull．

> Two yearold. do.
＇Two year old lleifer，
（：all，
Ram，
R：m Lamb，
Ewe Lamb，
buar，
Sal：
Spring Pir，
$\begin{array}{rrr}x & 0 \\ 3 & 0 \\ 2 & 0 \\ 1 & 0 \\ 0 & 10 \\ 1 & 0 \\ 0 & 10 \\ 0 & 10 \\ 0 & 10 \\ 0 & 10 \\ 0 & 10 \\ & 10\end{array}$
All the above animals，（except the horse，inast have
been bred and owned in the Count：．
For the best pair of（ieese，alive，
For the hest pair of Ducks，do．
For the best pair of Tharkevs，do．
For the best pair of fowls，cock \＆hen，
For the best cheese，made in the county，
For the best tub of butter made in the county，not less than 401h．weight，
second best dito．
For the best jollis．of roll butter，made in the county， 0 is
It is to be understond that the Society reserve the right of witholding the I＇remiam，in cases where there： is an opposition and the animals or artucles exhibited are not of supenor character．

By order of the Committes，
M．H．PERLEY．Necretary．
Saint John，June 1， 18 H ．

## LAND FOR SALE．

A［ot of 100 Acres of LAND．in the Salmon River Settlement，in the County of Carleton，being Lot No．133，on the west site of the River St．Jolm．bounded on the lower side by John Watson，said Lot granted to －smith．
A Lot of 300 acres Wilderness Land，granted to John S．Bown，in a grant to Zackarsh Brown and others，in the rear of Mensrs．Clows and Eveatt in Maugerville．

Lots No． $20 \mathbb{S} 21$ ，granted to Joln Raley near skan Creck．Oromocto，in a grant to Charles Smith and others． 1 grant of 700 acres，situate in the Green Settlements， County of Carleton．Apply to

W．J．BEDELL．
Fredericton，July 29， 1844.

## FOR SALE．

级HF undersigned having heen appointed Agent for the sale of a Grant of Land， situnted in the Parish of Kingselear，in the County of York，known and distinguished as the＂Broan Ave： Grant，＂hereby ofiers the same for sale．And all persons are liereliy forbid trespassing or cutting any tim－ beron the said Grant of Land as in ccent of thicirso doing，they will be prosecuted to the uttanst riger of the law．Ind all persons wishing to purchase the fowse trint of Land，will please make application（if in later post paid）to

JOHN AN：II．：is．
St．Iohn．$\therefore$ B．
Acrntfor LEWIS A．CAZENOVE．
July $25,1844 .-3 \mathrm{~m}$ ．

## 

Tilie Suts riber has had lus CakDing Machine put in first rate order．He will commence CARD． JNG during the ensuing week．and will then be prepared． promptly and satisfacforily，to execute，at his Steam Milit，Fredericton，any work，in the above line，wheh， may be entrusted to him．

THOMAS PICKARD．
Fredericton，May 14， 1844.

## PLOUGHS！PLOUGHS ！！

AGood assortment of PLOUGHS，with or without the woodwork．Also－Plough Points of all sizes： one wooded PLOUGH with a wheel，all of which are to be sold at the lowest prices for cash by

JOS．C．HATHEWAY．

Fredericton，May 15， 1844.

## A CATTLE SHOW AND FAIR

Fs to be held at M＇Lean＇s in Maugerville，on＇r＇uesday，
1．the Buh day of October neat．at 10 o＇clock in the firenoon，when the folluwing Premiuns are offered for the followiag Stock，viz：－

| For the liest BL＇LL，of any age， | 210 |
| :---: | :---: |
| For the second do．do． | （） 15 |
| For the third do．do． | 010 |
| For the best COiV， | 015 |
| For the second do．do． | 012 |
| For the third do．do． | 010 |
| For the best RAM， | 015 |
| For the second do．do． | ． 0410 |
| For the best BUAR， | 01.2 |

For the second do．do．
0） $10 \quad 0$
Ami for Jomestic Manuficture．viz：－
10 Yards best Homespun Fulled Cloth，
む゚の1） 6
Second best do．do，do． 0100
10 Yards hest Homespun phain Woollen Cloth， either coloured，figured，or white， 0100 Second do．do．do．do． 076
1）Pairs of best Mittens，
12 do．do．Socks，
6 Best hand Hay Rakes，
G Best Hay Forks，with handles，
6 Best Manure Forks，
0 i） 0

Ind for the best sample of l＇roduce，viz．－
Best quantity and quality of Indian Corn，from a quarter of an Acre，

| Second， | do． | do | do． | 0 | 15 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Third | do． | do | do． | 0 | 10 | 0 |

Best of Potatoes：from half an Acre，
second do．do．
0150
do $\quad 0 \quad 50$
Best quantity and quality of＇Turnips，from a quarter of an Acre，
second

0150 second do．do．do． 010 third do do．du． $0 \quad 5$
20 lb ．Clover secd，
second do．
$\approx$ busbels of the best Timothy secd， second do． $\begin{array}{lll}0 & 5 & 0 \\ 1 & 0 & 0\end{array}$ third do． 0100
No ammal or article exhibited to be entitled to a Pre－ mium unless considered worthy of such．

All ammals and articles exhihited for a Premiam are to be owned by the members of the＂Sunbury Agricul－ tural Society，＂and to be marked by a number attached them previous to the exbibition；the number and name of the owner to be kept by the Secretary．

Persons competing for produce and fulled cloth，to acquaint the Secretary on the day of the cattle show， and be prepared to satisfy the Judges on the last Satur－ day in December．

CALVIN L．HATHEWAY．
Sec＇y \＆Treasurer．
Sunbury，May $24,184$.

## FREDERICTON FOUNDRY．

＇YHE undersigned wishes to announce that they have commenced the IRON and BRASS Foundry busi－ ness in this Town，and are now prepared to turn off Castungs of every description on the most reasonable Terms，They would be glad to enter into arragements with parties for the erection of Steam Mills in this or any of the adjoinang Counties．Persons desirous of ohtain－ ing Engines built upon the latest and most improved principles，can be accomodated by giving rensonable notice．In the course of the ensuing month the Subscri－ bers will be able to supply parties，either wholesale or retall．with all kinds of Tin and Sheet Iron wares，at therr Foundry Warehouse in Queen street，nearly oppo－ site the Stone Barracks，or at their foundry in the rear of the residence of Mr．Morgan，Jing－street．

They will also have for sale various kinds of Mer－ CIIANDISE，all of which will be sold on the most reason－ able terms for satisfactory payments．As the Subscri－ bers are detormined to employ none but the most ax－ perienced workinen，the public may rest assured that all articles in the above line will be of the very best de－ scription．Old Iron or Brass purchased at the Foundry， or at the Foundry Warehouse．

MORGAN \＆TAYLOR．
Fredcricton，July 30， 1844.
ANTED，at the FREDERICTON FOUNDRY an experienced Moulder，and two or three men， well acquainted with the Tin and Shect Iron Business．

MORGAN\＆TEMLOR．

