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## THE FARMER'S MEANUAT,

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## THE FARMER'S MANUAL.

There is a species of contentment which is neither a blessing nor a virtue:-the indolent man who sits down in in his poverty, indifierent to the wretchedness of his fam.., and without regard to the improving condition of his more industrious and successful neighbours, libels the active instincts of his nature, degrades its character, and becomes like a slow but foul and incurable leprosy upon the bosom of society. The stolidity of such an one can be extenuated by no pretensions to philosophy, and contentment in these circumst ances is the bye birth of imbecility and ignorance. Yet there is a contentment which is both blessed and virtuous: blessed, because it is a sure element of success, and virtunus because we are enjoined to submit ourselves without dissatisfaction to the condition in which it has pleased God to place us. No man will rise to permanent distinction or prosperity in any of the pursuits of life without being ambitious of excellence in his particular profession. Pride in the business in which we may be engaged is necessary to our advancement, and this pride will be sought in vain among those who are discon: tented with their lot. It may be very safely predicated that that man musi fail, even of respectability, in his calling, who is ashamed of that calling; he may attain respectability if he is only satisficd
with it, but he can neither rise to honor or fortune unless it constitute his chicf ambition and pride to excel in it.

Now in this Prorince ignominy seems attached to every employment requiring human labor. Our artizans and Farmers, instead of devoting themselves with resolution to prosecute their respective businesses with vigor, to success, are too frequently found willing to drop the implements of their pursuits for the yardstick of the shopkeeper, or the type of some other calling, in their opinion more genteel, and thus half-hearted farming and half-hearted tradesmanship multiplying throughout the Province, develope only half the resources of our industry and skill, checks the inprovement in our people, and reduces the character of our country. Miany a man will find himself embarked in a business unsuited to his genius or his strength. Far be it for us to denounce an exchange for one more appropriate to the individual, our purpose is to persuade every man to employ his money, shill and labor in some honest and appropriate pursuit, with the determination that such shall be the business of his life, and that in it he will seek whatever of reputation, wealth or influence it shall be his good fortune to acguire.

But why this sichly disparagement of agricultu-ral-or mechanical employment? Labor-honestly employed labor-should every where be held in a respect equal to its necessity, and it is as necessary as food or raiment, for neither of these could be had without it. But, in this country the disparagement is particularly sickly and unwise.-Here we have none of those immense disparities of fortune known in older countries-individuals are scarce among us, who are not under the necessity to labor in some vocation, and it would be difficult if not impossible to find in the whole Province the head of a family of sufficient wealth to afford his children a full immunity from labor. Thus, where every man must labor for his livelihcod, why the distinction which make, one man's labor genteel,
and an object of ambition, another's vulgar and to be avoided. We can realize no sound distinction, save this-that labor is honorable in proportion to its usefulness to the individual engaged in it and to the world; and our pride could find equal gratification in exhibiting the finest field of grain in our district as in su'mitting the best digested and most demonstrative argument in a Court of Justice.Nay, we are bound to believe that in a large majority of cases, the successful farmer is by far the more honorable and useful member of society than the successful lawyer.

The great difficulty in this matter has its beginning, continuance and ending in the parties directly interested in the support of opposite opinions. So soon as a promise of euccess breaks upon the reluctant labors of our half-hearted fashion-seeking mechanic or farmer, that promise instead of affording encouragement to the more steadfast and vigorous prosecution of the business on which it has broken, is strained to the very limit of its endurance to supply some approach towards the gentility so eagerly sought-fashionable apparel and furniture purchases are deemed attainable, and purple and fine linen, a stylish sofa or piano, are found intruding themselves in the place which should be occupied by an increased stock, and farming implements. Plain, old fashioned "father" becomes "papa"conjectures are freely hazarded as to whether a small store might not be started with chance of equal profit and improved standing-the young ladies complain of lassitude, tire of the monotony of a country life, and "mamma" begins to think it might be as well for the old folks and better for the girls to move to town. The girls must have pianos, and be taught embroidery, and it is not to be endured that the boys shall be reared as plain mechanics or farmers. "Mr. Hobbs's son has got so genteel a situation in Mr. Tapester's store; and young Tomkins is making quite a fortune as a lawyer, and is to be married into one of the best families, though his father is only a plain farmer, and no better off than we are. And then, Mr. Strap, the schoolmaster, says our John is so quick at learning, it would be cruel to rear him in the bush !"

It is this disgusting, sinful disrelish for the wholesome, honest employments of life-this despicable pandering to the shadow of a false and holiow gentility-which dissatisfies our else most respectable and useful men with their most respectable and useful employment.

It is idle to dispute the existence of these feelings among us as a people, they are evidenced all over the country: in half cultivated fields-in empty, tottering, half-built barms-in patched farm-houses-broken fencea, and scanty farm-yards-in mechanics so proud of themselves as to be ashamed of their business-in storekeepers without cash, credit, custom, or commodities-in an idle community, dissatisfied, ignorant and shifless_almost
lost to enterprise, while their last sensibility to shame murmuss forth their ignorance in charging upon the Legislature the effects of their own falso pride and helplessness.

We showed in our last number, that in ${ }^{12} e$ early ages of mankind Agriculture was esteemed honorable of God and Man: that the almighty gave it to man as a fitting vocation and exercise when he stood erect in the consciousness of purity even in the presence of his Maker: that down through intervening centuries to the Christian era, the most distinguished men of the most distinguished countries practiced the art industriously, successfully, and with increase of power ; and though, through the looseness and length into which we have fallen in these remarks, we may not now fulfil our intention to illustrate the high estimation in which husbandry has continued to be held since that data-whereever civilization and knowledge have become prevalent, and the illustrious names, numbered among its patrons and practisers, so fully as we intended, still, we shaH not forget the purpose in a future number. Meanwhile, we would commend to the recollection and consideration of our farmers that their employment is of vital importance to the country-that in subduing an acre of wild land to the purposes of tillage, they add stability to our institutions, and increase the substantial wealth of the Province,-that as there is no employment more useful there is nome more honorable than that in which they are engaged. It is an employment which will well reward the investment of all their incustry, information and talent-it is exempt from many of the debilitating anxieties of town employment-is suggestive of high moral seatiments and feelings, and the most rational ancio best enduring happiness.

Please Correct--Haying used the same headings for the pages of our second number as in the first, and not altering the folios at the proper time, nor noticing the neglect until it became toc late to make a correction, we must now inform ous subscribers that the folios of the June number are incorrect. Instead of commencing with 1 to 16 , as for the month of May, they should have commenced with page 17 and ended with page 32. Those who intend to have the volume bound will please correct the mistake with a pen and ink, as the Manual for July will commence with page 33.
It is our intention to furnish a title-page for the volume at the expiration of the year, as also an Index, in which the pages may stand correcied on the number for June, as printed.
** For want of space we are compelled to leave several interesting papers on the use of Guang, and other subjects, out of this Number, but which we promise to attend to at the earliest possible period.
(Forthofarmer's Manual.)
LETTERS OF "A FARMER." Letter VIII.
On Mendowe.-Having in my last dwelt briefly on the subject of the green crops, or rather roots and vegetables, I would call attention to the importance of the proper cultivation of English grasses so frequently neglected in this country. Some farmers tulk of a general decline in the hay crop throughout the Province, without considering the cause, excepting the general remark that the seasons are bad; and I have long witnessed the fact with deep regret, but fully sensible that it was altogether attributable to the neglected state of cultivation.
One farmer states that his meadows does not produce half as much as formerly, and admits that he never recollects its having been ploughed, although he was born and brought up on the farm, and is now more than fifty years of age. Another affirms that twenty years ago his twenty acres intervale produced annually forty tons of good hay, but of late not more than twenty tons. In both cases, however, the meadows have been closely pastured in the autumns, and these are fair descriptions of the old meadows-in New Brunswick, evidently shewing the great necessity of rotation crops and top-dressing.

If a man has an old meadow, producing a light crop, let him commence ploughing and manuring a part, pasturing anuther part and top-dressing the remainder.
Of all the manures used in top-dressing, good composted manure is evidently best; ashes of any description are excellent, and the deposits of brooks, scrapings of the streets or ditches; mud, clay, or sard may be applied with good effect. Seaweed, straw, old rotten hay; in short any vegetable substance. Indeed, so valuable is a top-dressing of any kind, that even saw dust is far preferable to no dressing.

Among the kinds of grass cultivated, 1 am but little acquainted w.th any but the red and white clover, timothy and herd grass, as it is frequently called brown sop-all which should grow together to make an abundant crop of good fodder. Clover of itself may produce a good crop at the first cutting; but experience has proved that it is more profitable to grow all together. Our alluvials's seem well adapted to all these grasses in the same soil, and where they all thrive together; they form a thick close bottom and abundant crop of the best description of fodder. I have found it answer well to allow a piece of good meadow to remain until the grass has ripened before mowing it, then mow, dry thoroughly, and thresh out the seed, which may be sowed in the chaff. The seed may be sown at any season, but does best to sow in the autumn, or even after the first snow comes.

In some situations, I have known meadows to continue very productive for many yenrs, by never allowing it to be pastured in the fall, and even to become richer and require mowing twice in the season; but it is so rarely the case, that meadow land should remain more than seven years without ploughing, and it more frequently requires it to be ploughed every four years.

The Lucerne grass, and the Forion are highly recommended by some Europern writer, but as the former lasts but a short time, I douht if it is equal to the clover, and the Forion, or as it is here called, sheepskin grass, is indigenous in this country, having no seed, is only propogated by planting, and only thriyes on wet marshes, lov intervales, or
in ditches it is hardy worth our attention to plant it, we may be contented to use it for fodder or pasture, for both of which it is excellent.

It is much to be regretted that so much is annually sent out of the Province for grass seeds, when the seeds of our own country are not only abundant, but also much better. Although we are not yet in the habit of raising much clover seed for the market, yet many who have taken pains to secure their timothy seed, have found it a very protitable employment, which is done in various ways. Sone employ persons to draw the ripe stalks from the swath, and bind them for drying and threshing. Others reap the timothy above the under grass, and save it in chat way, and in either method it will pay well to hire persons to perform the lubor. But the best and easiest method is to encourage the new land.settler to sow timothy seed with his English grain, he may then winnow all together, and with a fine sieve, separate the grass seed from the grain, and both may be perfectly clean.
The Agricultural Society of this County, a ware of the great importance of good grass seeds to the farmer, give annually four premiums to encourage its cultivation, and some specimens exlibited, far exceed any imported from the United States, and for the sake of encouraging the growth of it.in our own country, it refuses to purchase the imported timothy for the Society's use.
I recollect well when hemp and flax grew Juxuriantly in this country, and regret that the cultivation of it is now tutally neglected, occasioned chiefly the abundance and low price of cottons; but as thè farmers of Nyew Brunswick want something more substantial than fancy cottons, and so much hemp is required to rig out our boats and vessels, I sincerely hope the subject will meet with that attention which it merits.
Besides, there are many persons in our country well acquainted with the management of flax, who are frequently out of employ in the winter? Even some of the inmates of the Alms House are capable of dressing and spinning flax, and there is no doubt but much good might result from introducifg the manufacture of linen in the public Penitentiary. But thest schemes, however, are rather beyond my limiks, so I will endeavour to turn to that which may be more irmediately interesting to a
A. Farmer.

## Letter IX.

Of Sheep.-Having in a former letter dwelt chiefiy on the neat cattle of the different breeds now in New Brunswick, I will now turn the attention to sheep, those uscful and agreeable animals, so essential to the encouragement of domestic manufacture, and so agreeable to the palate. Few farmers do without them, but so variable is their produce, that while some flocks produce fve or six pounds of wool to a flecce, and some even affirm they. exceed ten pounds, others hardly exceed two pounds to the fleece, and indeed by the ordinary shearing time, some have hardly any wool at all. Still the same system has been pursued with very little exertion on the suffering party to remedy the defect in their breed or management, although they can hardly obtain five shillings for a lamb, while some farmers never sell one for less than a pound.
The greater part of the breed of sheep that have long been kept in the country, have long crooked legs, hump backs andlong necks, and when fed on hay or grass, and well filled, the stomach and entrails constitute more than hglf their weight. They are generally great rangers, expert in jumping the
fences, and leave a good part of their scanty fleece upon the raspberry bushes. And as I have observed of the calves, so it is with the lambs, all that become fat go to the butcher, are sold, and the poorest only are reserved to keep up the number of the flock and sustain the breed.

There was indeed a better kind of sheep formerly, that had as many black, or nearly as many as of the white, and sometimes the same lamb would be black and white, and frequently a pair of twin lambs would be one black and the other white. 'Their wool was rather course, but long and useful, but for some reason there seems now to be much fewer of the breed left in the country than there was thirty years ago.

The Mcrinos, imported about twenty years ago, were not generally approved of, but the Dishley and Leicester breeds since imported, seem well adapted to our country and climate. The Dishley sheep is generally short legged, with a broad chest, Hat back, short thick neck, and low headed. It is very docile, and fattens easily. But I have seen a bind more recently imported, called the Leicester Sheep, which is an animal of firmer form and finer fleece than the Dishley, but I have not been sufficiently acquainted with it to know whether it is a better feeder or as hardy an animal. It differs from the Dishley in having a finer limb, smaller head, straighter on the back, and firmer flece ; but boththe Leicester and the Dishley are far superior to any other kind I am acquainted with.

The sheep is an animal that can accommodate 1self to any kind of food used by other ruminating onimals, and when fed solely on hay, whit require a very large quantity of food for an animal of its size, and yet will thrive in a short dry pasture better tnan any other animal. An open stable or shed suits them better in the winter than a close one, and during the winter it is much better to them some succulent roots or a little grain of any kind, than to depend entirely on hay.

From their propensity to rambling over the meadows and crossing the fences by the aid of snow banks in the winter, I would prefer a yard and an open shed with a good roof and a shelter from the winds, let them blow from what quarter they may. Sheep, of themselves, seldom seek any other shelter from the cold than the lee side of a fence or building.
They might be more casily wintered if they were allowed to run in a pasture when the ground was bare during the winter, and come to the barn for hay when they required it; but in this way they injure the pasture, and frequently become feeble.
I have found it the best method to feed them in a rack standing in a yard or shed secluded from all other animals, and the lesser the number, the better they thrive. Eight ordinary sized sheep require as much hay as one cow, and a few turnips with it or other short feed, give them plenty of straw for litter, see that they may lay dry, and the quantity of manure they will thus make in the course of a winter, will fully repay all the trouble and expense of keeping them up: beside, while they are thus yarded, they are secure from Wolves. Sheep are short lived animals, and should never be frept until six years of age, as they begin to fail at five. They go five months with young, and great care should be taken that the lambs do not come in cold weather, as nothing else is so injurious to the fleece, and lambs coming in May or June thrive much the best.
A farmer intending to imptove the breed of his own flock, should sodect the best lambs, and not allow them to have lambs until they are two years
old, and carefully separate all the old sheep intended for fattening, as early as the month of September.
Some object to the practice of washing the fleece on the shecp, but I have witnessed the practice ever since my recollection of sheep shearing, and amsatisfied that the wool is much better cleaned in that way, and the amimal, with care, need be no worse. Farmets owning large dry upland pastures, may deal largely in sheep to advantage, while some differently situated, may not find + profitable to keep so many.
That the beautiful imported breeds have been raised and perfected in England, none need doubt, and that a careful management and juaicious selection will jet pass an equal or even superior brecd in New Brunswick. I fully anticipate, and it is truly gratifying to hear persons when praising the beautiful Dishley sheep of Old England, to couple them with the celebrated Scovil sheep of Queen's County, and the Perley sheep of Carleton, all which should be encouraging to
A F Farmer.

Clover Seen.-We have received two communications from Joseph Warbasse, of Newtown, N. J., on his mode of preparing clover seed for sowing, by which the writer calculates he makes a saving of one-half the seed required. Mr. Warbasse's process seems to be predicated on the assumed fact, that ordinarily more than one half of the seed sown does not germinate, either from the want of moisture to swell it or of gypsum, the presence of which he considers essential to stimulate the germinating principle. Mr. Warbasse is probably right in saying that one half the clover seed sown docs not come up; and he is strengthened in his supposition that much of them remain dormant in the soil, by the tact he states, and which is of common notoriety, that plaster sown upon light lands will bring in clover where no seed is sown at the time. Mr. Warbasse's remedy for the evil is to saturate and swell the seed thoroughly in soft water, to which a quantity of salt is added, and after it has become well saturated, to cout it with Gypsum, $\& \mathrm{c}$., the effects of which seem to be to prevent the escape of moisture which the seed has imbibed and thus insure its germination and growth. A further advantage may be that the salts impart fertility to the soil which comes in inmediate contact with ths seeds, and causes a more vigorous growth. Such seems to be the philosophy upon which Mr. W's practice is founded. We give the process of preparing the seed in his own words:"The seed is to be made thoroughly wet with at strong pickle from your pork cask; let it remain in a heap one day; then spread it out about one or two inches thick on a dry floor, and in a few days a crust of salt will be formed upon each grain. When you wish to sow it, moisten it again with pickle, spread it over a thoor, and put on about 3 quarts or more of plaster to a half-bushel of seed; mix it well, and keep it moist in a cellar until you sow it."

Domestic Yeast.-Persons who are in the habit of making their own bread, can easily manufacture their own yeast by attending to the following directions:-Boil one pound of good flour, a quarter of a pound of brown sugar, and a little salt, in two gallons of water for an hour; when milkwarm, bottle it and cork it close, and it will be fit for use in twenty-four hours. One pound of this yeast will make cighteen pounds of bread.

## FOOD OF PLANTS.

"It is in vain for chemistry to discover or suggest, un ess her discoveries and suggestions be adequately made known to those whose benefits they are most likely to promote."
In my last, I endeavoured to explain the source and application of carbon. I will now add a few words on the other three organic elements of vegetables.

Oxyren, although by itself it is a slight, inodorous, invisible gas; yet, when in combination with other gases, it is a chief ingredient in all animal and vegetable substances, and forms a full half of all that lives. When united in the proportion of eight atoms of oxygen, with one of hydrogen, it forms water. It also enters largely into the composition of the air we breatne, for the atmosphere is a compound body, viz: twenty three atoms of oxygen, and seventy seven atoms of nitrogen, with about one two-thousandth part of carbonic acid gas, all those gases rendered wrial by the expansive influence of heat. There are also constantly floating in the air, but forming no constituent thereof, variable quantities of ammonia and watry vapour. The oxygen gas in the atmosphere is the principle of combustion, and the vehicle of heat, and is absolutely necessary for the support of animal life; it accelerates the circulation of all the animal fluids, and is the most energetic and powerful agent that we are acquanted with, it is also as necessary to the growth and vigour of plants as to that of animals.
"Leares, Lungs, and Gifles the vital ether breathe
On earth's green surface, on the waves beneath."
All vegetables have the power of decomposing water, they combine part of its hydrogen, as well as of its oxygen, with the carbon of the atmosphere to form the vegetable compounds, oil, wax, gum, resin, sugar, \&c. Oxygen is the basis of vital air, and the chief support of heat and life, and performs an important part in most of the changes which take place in the mineral, vegetable, and animal kingdoms.

Nitrogen also is an invisible gas, it is incapable of supporting flame or animal life, and has the effect of neutralizing the properties of oxygen gas, rendering it fit for respiration and combustion, and the compound possesses properties different from either of them separatcly, so as to be fitted for every purpose for which it mas designed. Nitrogen is lighter than atmospheric air, and is copiously thrown off from the lungs and skin of man and other animals, the interval which there is between every inspiration, seems to have been designed, to allow time for the nitrogen gas, which is thrown off from the lungs to mount in the air, in order that a fresl portion of air may be taken in, so that the same air be not repeatedly breathed. The upper surface of the leaves of trees and other vegetables give out during the day a large portion of oxygen gas, which, uniting with the nitrogen gas thrown off by animal respiration, keeps up the equilibrium, and preserves the salubrity of the atmosphere. Nitrogen forms part of all animal substances. It is also the base of ammonia, and the nitric acid, hence we understand its value as a fertilizer, for it is favorable to plants, as they grow and vegretate freely in this gas. It seems to be the substance which nature employs in converting vegetable into animal substances, and to be the grand agent in animalization.

One hundred volumes of water apsorb about four yolumes of nitrogen gas, and bear it in solution to the roots, by which it may be conveyed directly into the circulation of plants. "When nitrogen in
any of its compounds is applied to young grass or sprouting shoots of corn, it hastens and increases their grow th, it occasions a larger produce of grain, and this grain is richer in gluten and more nutritious in its quality."-Schubler, Agr.cultue, Chemie, p. 170.

Hydrogen is also only known to us in the state of gas, although by recent experiments there may be reason to suspect that hydrogen gas is a metal in the rriform state. All kind of vegetables, when assisted by the rays of the sun, have the power of decomposing water; during which decomposition the hydrogen is absorbed, and goes to the firmation of oil, resin, wax, \&c., in the vegetable, while the oxygen combines with part of the caloric received from the sun, and is given out in the form of oxygen gas; so that in this one operation, nature gives nourishment, and provides materials of growth to the vegetable world, and at the same time renovates that vital principle in the atmosphere, which is necessary for the support of the animal creation. Surely nothing short of consummate wisdom could have conceived any thing half so beautiful in design, or so extensively and superlatively useful in effect. Water as it falls in rain through the air, or trickles along the surface of the land, absorbs the gases, and carries them with it whercver it goes, conveys them to the roots, and into the circulation of plants, making them all minister to the growth and nourishment of living regetables, yielding now oxygen to one, and now hydrogen to another, as the production of the several compounds which each organ is destined to elaborate.

It is almost more than wonderful, that a substance which we know only in the state of thin air, should, by some incomprehensible mechanism, be bound up and imprisoned in such vast stores in the solid mountains of the globe, be destined to pervade and refresh all nature in the form of water, and be seen to beautify and adorn the earth, in the solid parts of animals and plants. But all nature is full of similar wonders, and every step we advance in the study of the principles of the arts of husbandry, we must mark the united skill and bounty of the same great contriver of all worlds. And as some excuse formy being so tediously particular about the four foregoing gases, is the fact that they are the raw material, the elementary substances of all animal and vegetable production in nature. To the agriculturist, therefore, an acquaintance with these four constitnent parts of all that lives and grows on the face of the globe, is indespensable, for out of those four elementa all the prodicts of vegetable growth are elaborated.
There is another gas, a compound of two of the former. I allude to ammonia, which is vastly too important to be overlooked. Ammonia is composed of a mixture of three atoms of hydrogen, with one atom of nitrogen, its chemical character being (N. 1 H .3.$)$ The influence of ammonia on vegetation, is of a very powerful hind, it seems not only to promote the rapidity and luxuriance of vegetation, but to exercise a powerful control over the functions of vegetable life. All the salts of ammonia are very soluble in water; the ammonia, which rises into the air in the form of gas, combines with the carbonic acid, and is readily again washed down by rain and dews, and those salts of ammonia contained in, or added to the soil, are dissolved by the water whitch percolates through it, and are thus in condition to be taken up and appropriated by the roots of plants to the growth and perfection of the whole vegetable: Yours, \&cc.3 Adderbory.

NEGLIGENCF AND ERRORS IN AGRICTITERF.
I believe farmers lose as much by negligence as by bad cultivation. Let me illustrate: Whenever I hear a man complain that his grounds are overrun with thistles, with ox-cye daisy, wild carrot, chess nut grass, \&c. Sc., I at once say to him, there was a time, and that not long ago, when you might have prevented this evil with five mimutes labor. When you first saw that villainous plant on your land, there were but one or two, or half a dozen, and you could have destroyed them with a dock extractor or hoe in a few minutes, but you neglected the opportunity. In all your walks oier your farm, let the staff in your hand be a we!l constructed weed-hook; you can walk as well and protect yourself as well with such a staff or cane as with any other. Now this is the way to rid yourself of all noxious weeds, or rather to prevent their formidable appearance. Begin at the beginning, with these pests, or any thing else. luta new rail in that panel, in place of that rotten one yonder; do it now, don't wait till the broken rail invites some stray animal to leap into your corn field, and in doing so breaks half a dozen other rails. Tuke a spade and drain off that pool of standing water in your wheat field yonder, and as you go along, cut off that summer sprout or young shoot that is just starting from the limb of that apple tree, that favorite tree of yours, and mind, hereafter, don't let such things grow on any of your trees. Take a small spade and dig up all, every one of those butter cups, (Renunculus bulbosa,) in your cow and sheep pastures, and as soon as you sce a single plant of that poisonous plant hereafter, destroy it instantly. Don't you linow it is one of the most deadly poisons to cattle and sheep that can be found? It does notkill, it is true, at once; but it is a slow poison, and ultimately kills any ordinary animal that eats it; besides, it poisons the milk of cows, and is supposed to be the cause of the "milk sickness" of the west.

Errors in farming or agriculture, ar as numeroas as instances of negligence, and even as deleterious. 'That was a capital crror of yours, sir, in supposing that becanse you had a thin soil, with a clay substratum, you must not plough deep. Why, my dear sir, if ten years ago you had begun to plough deep, you would, at this time, have had a deep soil instead of this thin skin that is made still thinner every time you scratch it. Plough deeply, as deep as you can, every time you plough, and in a few ycars you will have no reason to complain of short crops from drought, or of winter killing from hard winters, nor of short crops from any thing else. Don't try too much of it! Try all new things in a small way. If you had tried but one acre of that new spring wheat, and kept trying one acre till you found it to be, or not to be, what it was cracked up to be, you would not now bs complaining of loss by experiments.

Errore in judgment are so numerous, so unirersal, that it is difficult to point ont examples; there are so many of equal imp tance, that we can hardly chonse which to take; but that farmer yonder who throws his stable mauure out of the window of his stable, on the side of the hill, and allows it to remain there from month to month, to be washed by every rain, and bleached by every day of sunshine, commits not a greater error than hr who purchases manure at a distance, employs teams and hands to haul it to the farm, all at a heavy expense, and at the same time overlooks, or omits to avail himself of the numerous sources of manure that are staring him in the face every hour of his life on his own premises. "My father hilled
his corn. and made good crops," says one; forgetting, as it would seem. that his fither's land was new, and could "stand any thing." "I have the tallest corn, and will have the greatest crop of any in these parts," said a Saratoga county farmer who had obtained some seed of the tall southern corn, in a tour last year to the south, forgetting, or not having recollected, that corn that may make a good crop in the south, will not necessarily do so in the north, until the first of October nipped all his prospects in the milk. He had not duly considered that plants have their climates as all things have their seasons.

But I must bring my discourse to a close, and will do so by a summary illustrative corollary: Two white millers, or moths, entered the gardens of two citizens, in the spring; one, of courser in each. The owner of each garden was present, and cach saw the little creatures. One of the citizens instantly caught and killed the insect; the other allowed it to pass on, paying no attention to it. In mid-summer, the garden of the first citizen was free from caterpillars; that of the other was completely denuded of foliage, with bugs and offensive msects on every shrub and plant. "Why," says the latter to the former, "how happens it that you have no caterpillars, while my garden is devoured by them ?". "I killed the first miller," says the former, " you let it live, lay its 500 eggs, which in two weeks turned ont 500 caterpillars, and they in their turn, in a few weeks, each 500 more, and so on till you have your millions of insects, and I have none."-Allany Cultivator.

Guavo. - The follawing article contains some information respecting the mode of applying this manure, which may be of service to readers at the present time.
"In the latter end of December, 1842, I ploughed a lea-field, and sowed it with wheat and in the month of May following, it looked stunted and bad. At this period I sowed over it Guano at the rate of two cwt. to the acre, and in fourteen days an entire change had taken place, the wheat looking green instead of yellow. It continued for some time to improve, and every little place that was missed in the manuring, was seen from the opposite hill ; and I am sure, from the application of this manure (costing about 303.) the crop was improved full thirty per cent. Guano had the same effect on barley on a light soil, and a piece of Oats on a stiff clay soil. In the second week of May last, I tried it in a field of Grass, using three cwt, per acre against forty tons of Devonport Dung ; and I can be positive in stating, that the part on which the Guano was used, produced a far bette" crop of Grass than where the dung was used. I have found guano very useful as a liquid manure. I have dissolved it in spring water at the rate of 11 b . guano to three gallone, for 24 hours, which has produced a fine piece of grass; but the best and most convenient plan is (where persons possess tanks for containing the liquid manure from the stables, \&c.,) to put it in the tank, about Ilb. guano to 8 gallons of water. This I found produce a most excellent crop of grass, which was in six weeks sufficiently high to mow. I likewise sowed a field of white turnips, one part with dung, the other with guano, two cwh. per acre. The guano produced a much better crop than the dunged part, which was allowed to be the case by several farmers swo saw the field." William May, Saltash.

Cure for Locked Jaw in Horses.-It is said that pouring water along the back from a watering pot, for a considerable time without intermission, wall elfect a cure,

HAYING.
But few persons have commenced haying, or made preparations for that purpose, though some have commenced in a small way under trees and where grass has lodged.

Success in this important and most pressing business in New England, depends much in being well prepared with all the various implements of the best style, and a good steady team, always near at band. Scythes, sncads, rakes and forks should be light, strong and neat. In these things we.have of late great improvements, and yet the prices are moderate.-Light and well constructed implements that save much hard labor may now be obtained at the price farmers used to pay for coarse heavy bungling articles, which they would not use now if furnished gratis.

No farmer makes a snead now, as he can buy a good one all rigged at less cost than a single set of irons can be made.-Most sneads are spotted by the manufacturer. If not, the best rule that we have ever found for this operation, is to make a small spot by guessing, at which Yankees are good, and then hang the scythe by using a large ring, and if not right vary the spot till the scythe hangs well, then finish the spotting and make the tang hole. In this way a scythe may be hung precisely as desired, if the operator knows when he is well suited.

Horse rakes make a great saving of time, as a man with a horse will rake as fast as half a dozen men with the hand rake. Besides this enconomy in time, a great saving is often made by securing hay from a rain, which could not be accomplished witnout this labor saving intplement.

Boys should be furnished with tools suitable to their size and strength. Small boys cannot work to advantage with implements adapted to men. Yet some farmers make no other provision for their boys, though they expect much from them. When boys began to mow, they are often furnished with scythe and sneads, not only large enough for men, but which are so poor that men have laid them aside, and without experience in keeping a scy the in order, or instruction in mowing, and with an implement that men will not use, they are complained of for not making good work, or attempting to mow before they know how. In this way the youth is discouraged and his enterprising spirit depressed instead of aided and encouraged.
Though all the grass cannot be cut at precisely the best time, yet we should ascertain the best time and come as near to it as possible. We often begin to mow a week or so before the grass is fit, and then not get through till 2 weeks past the best period, when nearly the whole crop needs cutting about the same time. Clover should be cut when about one third the heads have turned brown : if very stout and lodged, the sooner it is cut the better. Some cut herd's grass when in blossom, others let it remain till the seed is quite or nearly full grown. From experience and observations we prefer the latter period.

The times of gathering crops determines also the amount of their nutriment. Thus, radishes left too long in the ground become hard and woody, and so with the stem of the young cabbage and the artichoke; and it is, in effect with the grasses cut for hay. There is much sugar in these, and as they grow up, this is changed into starch first, and then into woody fibre. Therefore the riper plants become, the less sugar and starch they contain in proportion to size. Those parts of a plant which dissolve most pasily, are the most nourishing:
starch and sugar are readily soluble in water. The weight of cut straw or hay is less when perfectly ripe. These should be cut consequently, soon after they are at their greatest weight, when both the quanticy is greatest, and the quality is best, and the same may be said of all the corn or grain crops. The straw commonly begins to diminish three weeks previous to being fully ripe, and it becomes less nourishing after that time. But the ear of grains which is sweet and milky four weeks before it is ripe, afterwards becomes consolidated, the sugar changes into starch, the milk thickens into glaten and the alumen of the flour. And when this is completed two weeks before the ripening, the grains contain the greatest amount of starch and gluten. If grains be cut at this time, they are heavier, and they will yield the greatest amount of good flour and the least bran, as the skin of the grains is always thinnest at this time. If, however, they are left longer, the grains cover themselves with a thicker skin for protection, a part of the starch is also changed into woody fibre, as in the ripening of hay, the radish, \&c. All corns or grains should therefore be cut two weeks before ripening.
Farm Accouxts.-What would be thought of a merchant who did not keep a set of books, and who at the end of the year could not tell whether a certain branch of his business had been productive or not? And why is not a farmer as much interested in the result of his operations as a merchant? The pettiest shopkeeper must have a clerk to kedep his books with double entries, and yet the most extensive farmer, operating with thousands, keeps no record of his proceedings. The manufacturer opens an account with each department of his business, charging it with the stock employed, the expenses incurred, and crediting it with the products. At the end of the year he sees at a glance whether it has been productive or not, and concludes to lop it off or extend it. So should the farmer open an account with every crop he cultivates; charge it with the outlay and credit with the proceeds. At the end of the year he should takeanother account of the stock on hand, and he will see at once how he stands on the year's operation. If he is unable to keep so simple an account, he should employ a clerk; (although he had better go to school himself,) he certainly needs his assistance as much as a merchant. But there is no difficulty about the matter, and extracts from a farmer's books, well kept, would form the most valuable contributions to an agricultural paper.
Notritious Food.-A very interesting report on the comparative nutritive properties of food was lately presented to the French Minister of the Interior, by Messrs. Percy and Vauquelin, two members of the institute. The result of their experiments is as follows:-In bread every hundred pounds weight are found to contain 801 bs . of nutritious matter; $b$ tcher's meat, averaging the various sorts, contains only 351bs. in 100 lbs .; French beans, 80lbs. ; Peas, 23lbs.; Lentiles, 941 lbs . in 100lbs.; Greens and Turnips, which are the most aqucous of all vegetables used for domestic purposes, furnish only 8lbs. of solid nutritious substance in 1001bs.; carrots 14lbs.; and what is very remarkable, as being in opposition to the hitherto acknowledged theory, 1001bs. of potatoes only yields 25 lbs of substance valuable as nutritious. One pound of good bread is equal to $2 \frac{1}{2}$ or 3 lbs . best potatoes; and 751bs. of bread and 301bs. of meat are equal to 300 lbs . of potatoes; or, to go more into detail, $3-41 \mathrm{~b}$. of bread and 5 ounces. of
meat are equal to 3 lbs . of potatoes. This calcu- $/$ proper season. When mixed with vegetable reJation is considered perfectly rorrect, and may be valuabl: in familes where the best menns of supporting mature should be adopted at the least ex-pense.-Sicientific Journal, Dublin.

Famy Yard Mavere.--The situation of the dung pit should be near the stables and cow-houses, and placed so low that all streams of urine should flow nt once into it, so that nothing be lost. It may be 3 or 4 feet deep, and of a size proportionate to the stock of cattle usunly kept by the farmer. It is not necessary that it should be built round with a wall, or have a perpendicular descent, as it may slope gently inwards, and deepen gradually towards the centre. It should, if possible, be coverd by a roof, to prevent the action of the sun. If the bottom be found impervious, and capable of containing the juices, no farther trouble is requisite, and the work is complete; in many instances, however, it will be necessary first to puddle with clay, and then line the bottom with tlag stones. Into this pit, earth, with refuse straw, should be brought and steewed over the bottom and sloping sides, to the thickness of from nine to twelve inches, and this will form an inferior layer to absorb all that portion of the liquid manure which naturally runs to the bettom. The pit is now prepared to recrive all kinds of animal and vegetable manure, which when brought, should be always laide evenly over the surface. In Scotland, such pits are common, and in the course of accumulation, a young or wintering stock of cattle is allowed to go at large upon the whole; the animals being at the same time fed on a proper allowance of straw. Care is also taken to mix, in laying on, the dung brought from the cow house, stable and piggeries, so that the rich excrement of the well fed animals may be incorporated with that of a poor description from others. It is likewise of the utmost importance, though too frequently neglected, to convey to the pit the entire liquid refuse of the farm yard, provided the quantity be not so great as to made it advisable to have a separate pit for its reception.

It is customary to cart away the material of the dung pit at convenient opportunities (usuolly during the frosts in winter) to a place in the filds, near where it is to be used, and there pile it $u$ in a quadrangular heap of about four feet in height. Dung carted out in this manner, is ready for the turnip husbandry in June, and the practice is otherwise convenient. It may, however, be stated, that for want of attention to principles already explained; such dung heaps, by exposure for months to the weather, must lose some of their valuable properties. In every instance, the dung heap in the fields should be placed in a hollow situation, with a substratum of earth, and should have a scattering of a few inches of earth over it, and around the sides, to keep in the volatile gases. When the dung pit has thus become emptied, it may again be progressively filled as before; and when it is carted out in any of the spring months, it will be found necessary to turn it once or oftener, for the purpose of accelerating the decomposition of the strawy part of the mass. It may be of use to '.. sow, however, that the dung required for fallows for wheat in autumn, may be less putrified than that for turnip crops.

Lrquid Manure.-The urine of cat ${ }^{-2}$, is of great yalue as manure, and this is so well known to the farmers of Belgium, that they use tanks for collecting the liquid from cow houses, and tiience they pump it up and pour it over the land at the
fuse, moss, or eath, it forms an excellent compost. It is decply to be rerretted that so little 18 known on this subject; and such is the carelessness of farmers, cottagers, that the urine from their cattle stalls is in most cases sutfered to waste.-Chambet's Information for the People.

Celfere of Tervips.-Mr. Brook-Sir, Thave seen several remarks in the Farmer Jately, on the cultivation of turnips, and as they do not all agree with the methods adopted by us, I forward you our plan of operations. First, select a suitable piece of land, plough, cross-plough, and harrow well, so as to pulverize it thoroughly; then sow the seed far enough between the rows to allow the cultivator to work, for that saves much lator in the hoeing. We have a machine for sowing the turnip sced, that makes the drill, sows the seed, covers it up, and rolls it over. With this, a man can sow as fust as he can walk. The cost is very little, for a good smart carpenter can make one in a day. It is ni! made of wood, except the cylinder which holds the seed; that is made oftin, and it answers the purpose better than the patent machines which cost ten times as much, and have the extra quality of getting continually out of order. Now, 4 s our seed is in the ground, we will wait till it is about 4 inches high, and then thin it all out, so as to leave a plant about every six or seven inches; if you leave more, the turnips will be small and not worth harresting.

In gathering them, let two men begin with a row each, pull a turnip with each hand, strike them together, to shake off the dirt, and lay them down with the tops all one way, over the place where they werc pulled. Then cut the tops off with a knife made in this manner: split the end of an axehandle, and lash about a foot of the point of an old scythe in it, so as to leave the end projecting about six or eight inches. It wants to be just long enough to reach the ground without the operator's stooping. One man can cut the tops off in this way as fast as three can pull them. We then haul them to the barn floor, upset the cart, and push them down through small traps into the cellar.

In feeding cut to milch cows, we chop the roots in a plank trough with a spade sharpened for the purpose.

This is for raising turnips in the cheapest and most economical manner, and they cost but half as inuch as the potato, at the same amount of profit. However, a farmer should not calculate upon one crop alone, because he fancies it is the most profitable alone, but some of one and same of another. Rotation is the word for farmers.-N. E. Farmer.

Preserving Tuols from Rust.-To preserve scythes, sickles, reaping hooks, and other steel tools from rust after the season for using them, wipe them clean and dry ${ }_{2}$ and hold them before the fire, and keep drawing them backward and foward until warm enough to melt wax; then take some beeswax and rub it all over. A half penny worth of wax will be sufficent for a scythe. Then put it in a dry place; it needs no covering. The usual method is to wrap a hayband round: but in the winter time this naturally attracts moisture, or the damp air strikes in betwixt the folds of the hay band.-Farmers Magazine.

Mode of increasing the Potatoe Crop.-An En. lish writer says, by carefully removin. the buds as they appear on the potatoe vines, the crop of large ones is very much augmented. The theory is plausible, and worthy a fair trial,

THIRIFIY AND UNTHRIFTY FARMING.
I recently made an excursion of some distance in the country, and tarried for a short time in a farming community, where the first eighteen or twenty years of my early days were spent. Many years have elapsed sunce, and other pursuits have engrossed my time and attention. l'et, often my mind reverts to the scenes of my youth, and memory rolls back to the recollection of other days, when, in common with all the rural community in which I resided, I felt all the joyous hope of seed-time, entered with zeal into all the labours and excitement of hay-making and harvest, and shared in all the frolic and glee of husking purties; and in all the thoughtlessness and buoyancy of youth, looked for vard for thankgiving, as the best of all the days in the year.

In visiting the place after an absence of some twenty or more years, I found many striking changes had taken place; many an honest, brawny limbed farmer, then lord of his broad acres, now occupied but his six feet by two in the "auhl kirk yard;" and others that were then in the vigour of manhood, and had been spared, were bowed down with age, and their thick locks had been plucked by the fingers of time, or silvered o'er by the frosts of 70 or 80 winters. Many of my schoolmates who were then wild and reckless youths, with whom I had an hundred times tried the "tug of war" a. long hold and side hug, were now staid and steady farmers-heads of families, engaged in all the business scenes of life. And of the bright-eyed, flaxen-haired lasses, many were transformed to sober and careful housewives and mothers,-and others were quietly sleeping the slumber that knows no awakening-most of whom had been carried of in all the bloom of youth and early womanhood, by that scourge of New Eng-land-consumption.

But as the whole country was covered with snow, I could not make much of an agricultural survey, but upon inquiry, I learned that many farms had from bad management and culture very much deteriorated, and greatly lessened in value ; others had held on the even tenor of their way, and wintered ahout the same number of cattle they did formerly, and some few in the hands of enterprising, intelligent farmers, were advancing with a sure and steady pace that would yearly add to their value, and to the wealth of ther owners.

There had been several causes in operation to exhaust the first named class of farms-such as ploughing the lands in the autumn, where much of the finer portion of the soil was blown off by the winds, and washed by rains and melting snows, and suffering their cattle to roam over their mowing fields, both fall and spring, with a reckless waste of their manure.

In conversation with one of those farmers, (a Mr. G.,) whose farm had ran backwards, I suggested to him the idea of collecting the leaves and decaying vegetable matter from a piece of woodland near by. "Why," says he, "I haint much opinion of this vegetable matter-'t is sour stuff-only give me dung enough from the hovel windows, and I can raise as good crops as Mr. I. does, with all his swamp muck, lime, compost, and book farming." I enquired if he took an agricultural paper. "No," said he-"I did take one several years ago, and that had so much to tell about a new lkind of potato, that they sold for 25 cents a pound, and after all, it warnt no better tisun the long reds; and about tree corn and mulberry trees; and a good many farmers got bit, by beleving their great stories, that I got sick of, and
|stopped it, and would not now take the gift of one."
I afterwards called upon Mr. I., the book farmer, as Mr. G. sneeringly called him, and found him a middle-aged, intelligent farmer, who was quietly improving his farm by every means within his reach. I was so much interested in his management, that I thought I would attempt to communicate an account of it to the public, through the columns of your useful Journal, with the hope that other farmers might be benefited by his example.
Upon looking into his barn, I found his hovel floor was water tight, and sloping toward the back side. In the rear of the cattle, was a kind of trough, of the width of twelve or fifteen inches; this was also water-tight; the droppings from the cattle mostly fell into the trough, and by giving his cattle a good bedding of litter every night, they were lept comfortable, and nearly as clea:. as when at pasture. He had the past winter used several loads of sawdust from a shingle mill, and leather shavings from the currier's, for the purpose of bedding, and soaking up the urine. The hovels were daily cleared out by wheeling the manure and litter into the centre of the yard, (which is dishing, and piling it up in a snug heap. His barn is so situated that he cannot dig a cellar under it, but intends the coming season to buald a shed for the purpose of keeping his manure under cover in future. The floors of his horse stable are tirht: every day it is cleared, and the manure and liter is spread under a shed, and by being trodden by his stock, it does not heat and fire-fang, as is too often the case. Most of his winter manure will be mixed with swamp mud to compost through the "summer. I inquired respecting a heap near his barn: he said there were two cart loads of lime mortar, that he bought for a trifle of a man who had taken down a large house; it was mixed with about four loads of brake root turf, about eir ${ }^{\prime}$ teen months ago; it had been left this length of time for the purpose of having the plaster come to pieces and rotting the turf. Last fall it was shovelled over, and two lime casks of fleshings, procured at the tanner's, mixed with it. He thought while this animal matter was decomposing there would be a large amount of nitrogen generated, and give him a large amount of nitrate of lime by spring, when it would be again shovelled over, and 35 bushels of good ashes mixed, and then applied to an acre and a half of ground, upon which he should sow wheat: I think he said the compost was to be put on after the ground was ploughed, and to be harrowed in with the wheat. The ashes he had purchased at ten cents per bushel.
He had a cart-load of the waste wool, or flying, from the wool carder's: this was boiled for a short time in lye, to cleanse the oil and grease, and to render the wool more decomposible. By way of experiment, a part of it would be used to manure some of his corn and potatoes in the hill, the rest would be mixed in the compost heap, to remain a year or so. He also had a large quantity of old woolen rags, that he bought of a store-keeper for a trifle-having, he said, read in some book that 100lbs. of woollen rags contained as much nitrogen as 30001 bs , of cow manure. Some of these rags were to be chopped up and stecped in urine for a few days, then to be partially dried and sprinkled with gypsum, and used as manure in the corn and potatoe hills; the other part would, like the waste wool, be composted. He had a number of casks of fleshings, that were obtained at the tanner's, which would be mixed with vegetable
mould as soon as the snow was off, and he could intheir condition. But if fed upon skim milk porobtain it; he also has the hair, lime, and piths of ridge, only, as some gentlemen state as being horns from the tan-yard; the bones are broken up their practice, and turned to pasture the first season, by the hammer, and mixed with manure and I think they are more inclined to be narrow in the ploughed in; they will slowly decompose, and sup- loins and hips, and became pot-bellied; defects sly phospate of lime to his lind; he had about two barrels of the settlings of salts from the pearlash factory-similar, he thought, to the material known as glass factory manure: an account of its use and value is given in Mr. Colman's Fourth Report, pages $344-5$, by a Mr. Jarvis. There were a few inches of lye upon the top of the salts in the barrels, so strong as to flont an egg with nearly one half its surface above the lye. This, he assured me, according to Mr Jarvis's statement, would convert ten or fifteen loads of loam or muck into a compost equal to the same amount of good stable manure. All these materials, sawdust, wool, fleshings, hair, lime, piths of horns, and salts from the potash, he had for removing as they were considered a nuisance, and of no value by the manufacturers or owners. The droppings of the fowls are occasionally scraped from the boards over which the hens ronsted, and piot in old casks; in the spring it will be moistened with urine and ground to pieces with a hoe, and mixed with plaster of Paris, to be applied to grass land, or put about the corn and potato hills, at the first or second hoeing; -he styles it "Yankee guano." He has a strong tight box under his bach house, in which is frequently thrown gypsum, or charconl dust obtained from the coal pen of the village blacksmith: it absorbs the smell, and once in a week or two, the contents of the box are mased with dry peat or sawdust, or some other material, to absorb the liquid part, and put into old tight barrels. This is home manufactured poulrette. His hog yard, of good size, has been dug to the depth of 1 is inches, and a gnod plank floor over the whole, which makes it easy shovelling out the manure. The suds from the wash are conveyed to it by a spout, which with the manure of his hogs, mixed with the loam, muck, and other materials, makes many loads of valuable manure. Ile has tried many experiments that he has seen recommended in the agricultural books and papers that he has read; says, after he became 'one and twenty;' he did not feel obliged in all things to follow in the footsteps of his worthy predecessor, his father, and sometumes pursued a new track, and went upon his own hook. IIe intends getting a small quantity of guano and ground bones the coming sping, for the purpose of testing them by the side of other manures. Several of the kinds he hasnot yet tried, but from his remarks, I feel satisfied he will find them all invaluable helps for increasing his crops, and from the nature of some of them, valuable and permanent inprovers of his soil-Correspondent N: E. Farmer.

Raishig Calefs-Trimatment of Stock.On the sulject of rearing calves, I differ somewhat from the mode which has been presented by the gentiemen who have preceded ine. To make the most of my calves, I allow them to suck the cow for the first threc or four months.-Calves dropped in the Spring, I keep in the stable, the first suminer, leading them to the cors morning and evening; $\mathrm{By}_{y}$ this means I obtain better forms, broader loins and hins, with fuller bosoms; giving greater weight to the most valuable parts. About tro months old, they would berin to cat hay and drink water; and at four months, would feed so well, that if then taken from the cow, and well fou, there would be very little, if any falling off,
loins and hips, and became pot-bellied; defects
which they seldom wholly outgrow. It has been said that our neat stock have degenerated; no wonder, if they have been brought up upon skim milk porridge. If there is no profit in keeping aminals uecll, there is less in keeping thein poor. In wintering stock, in our climate cows in mill, and oxen daily worked, sheuld have comfortable warm lodgings. Ycarlings and two yearolds, will sometimes do well to run out, where there are convenient barnyards, and sheds, with mangers underneath, adjacent to the barn, with a door left open. With this arrangement you will seldom find the animals in the stable. The same remark will apply to the horse, whose limbs are badly swollen by hard driving; giving what is called a winter's run, and taken up in the spring with proper treatment, has a remarkable good effect. Milch cows shonld have a regular and kind system of treatment in their management. They should be milked at stated times, and, if convenient, always by the same person.-When milking is commenced, it should be done with as much depastch as possible, consistent with mildness; and be sure not to stop until they are cleanly milked. 1 prefer milling after they have been fed and have done eating, when in the stable. Let no movement be made to eacite them, or draw off their attention from yielding down their milk; this kind of treatment will add much to the quantity of milk. Good water, easy of access at all seasons, is highly important to most of our domestic animals. Fur tro or three of the days after the cow calves, in cold weather, I do not allow her to have any cold water. I give her water about milk warm, with a hendful of wheat bran to a pailful. For the loss of appetite of either horn cattle or horses, I give what is termed a warm mash, made as follows: two quarts of oats, two quarts of malt, and two quarts of wheat bran, put in a pail, well mixed, then pour scalding water until moist, cover the pail with a cloth, let it remain until it is about milk warm, then give it If for a horse having a cough, put in two tablespoonfulls of huney.- I have seldom known this mash fail of producing the desired effect. Some care should be taken that the animal does not take cold after taking the mash. If necessary three mashes may be given, missing one day between each. In November last, I had a very fine cow, giving about trelve quarts of milk per day : very suddenly she dried up to two quarts per day; her eyes became dim, ears hung down, and she refused to eat. I was at loss to know the cause. I thongh it might be the horn ail, or garget. I split the under part of the end of her tail, took off an inch of the bone; put about a gill of spirits of turpentine in the hollow, back of the horns, and about the roots of the horns; gave her a half a pound of sulphur and half on ounce saltpeire, put a piece of garget root in her dewlap, near tho bosom, as a rowell, and gave her a warm mash In a very few days she appeared perfectly well and gave her usual quantity of milk.

Leaves are the lungs of plants; they take oxygen from the air, and emit carbonic acid, which is composed of oxygen and carbon. While the former foes off; the latter remains and converts the sap into a kind of pulp, a part of which consists of carbon. The pulp passes from the upper to the under side of the leaf. The cells where the pulp
lodges being yellow, and the carbun of a dark blue, they form together, the green colour of the leaves and young bark.

## INTERESTING FACTS.

Fhy is cream churned into bulter?
Because of the heat produced by churning, which thus changes the cream from a fluid to a solid.

Why is a slass lube, called a cream gruagre, used in duiries.

Because when filled up to a certain height (ten inches) with new milk of a proper temperature, and then set by for twelve hours, the cream will have risen to the top of the tube, if the cow be a proper one from which to make butter.
$W$ Why is lime important in the shells of bird's exgs?
Because the body of the erry contains neither phosphoric acid nor lime, both of which are rejuisite for the bones of the bird; it was necestary, therefore. that nature should provide means of furnishing both these substances, which it does it the expense of the shell; this becoming thinner -nd thinner during the whole time of incubation, -ill the living embryo has appropriated a sufficient juantity for the formation of its bones. Part of the albumen combines with the shell for this purpose, and another portion forms feathers.
thiny do fowls, if leept confined, luy their eggs without shells?

Because they cannot then get at any earth which rontains the material requisite for the shell. Dr. Paris, (in the Linncan Transactions,) shows that if the legs of hens be broken, they will lay their eggs without shells until the fracture is repaired; nature emploring all the lime in circulation for the purpose of reuniting the bones.

Why are eggs preserved by rubling them with builcr?

Because the butier closes the pores in the shell, by which the communication of the embryo with the external air takes place. The embryo is not, however, thus kilied. Tarnish has a similar effect. Reaumur covered eggs with spirit varnish, and found them capable of producing clickens after two years, when the varnish was carefully removed.

## CIOTHING.

Why have white veils a tendency to promote sunburn and frcchles?

Because they increase the power of the sun's light.

Why docs a flanncl covering keep a man zearm in vinter, and ice from mellings ins summer?

Because it both prevents the passage of heat from the man, and to the ice.

Why does a person with a coll in the had, or calarth from the eyes and nose, expcricnce so much more relief on applying to the face a linen or cambric handkerchief than one made of collon?

Because the linen, by conducting, readily absorbs the heat and diminishes the inflamation, while the latter, by refusing to give passage to the heat, increases the temperature and the pain. Popular prejudice has held that there was a poison in coiton. - Irnoit.

Why is loose clothing oarmer than such as fit rlosc?

Because the quantity of amperfectl; conducting air thus confined around the body, resists the escape of animal heat.

Why is collon batumer than any other fibrous intrads?

Because the fibres of cotton, when examined by the micruscope, will be seen to be fincly toothed: this explains the cause of their adhering together with greater frility than the fibres of other specics which are destitute of teeth, and which cannot be spun into thread without an admixture of cotton.

Why does oiled sill, or other air-lighl covering, latid on the bed, preserve sreater warmth than an additional blanket or more?

Because the oiled silk prevents the ventilation of the person by the slow passage of air, as through the texture of the blanket.

The Ternip Fef. is one of the greatest scourges to Britisla husbandry. The Farmer's Ifagazine contains a learned article upon this insect (Hultria Itumorium) giving us its natural history, and containing an examination of the various remedies which lave been recommended to prevent its destructive ravages, embracing the application of lime, sulphur, soot, urine, fumigation, \& c. Although these remedies, or some of them, are admitted to have had partial success, yet none of them, in the opinion of the writer, Mathew M. Milburn, can be depended upon with any degree of certainty. Ie thinks Mr. Poppy's plan of protecting the Swede valuable, which is to drill between the rows the common turnip, which the flea seems to to prefer to the Swede, and when the latter has acquired the rough leaf, to plough up the common turnip-yet he concludes by saying, that if attention is paid to the follosing particulars, he thinks the crop may be generally saved.
"1. Hasten the germination of the seed by all natural means, as applying some portion of stimulating menure, sowing when a proper degree of moisture exists, and in close connexion with the manure, to secure at once the benefit of it to the roots, if possible, making most of the season when farourable.
"2. Sow a liberal quantity of seed, never less than three founds, and sow it in drills, which will hasten the verctation after it has come up.
"3. Clear the land perfectly, that no weeds may spring up to impede the growth of the plants, and give the soil a liberal supply of manuse suited to its character.
"4. As a preventive, rid the soil by hand weeding, horse hoeing, \&c., as much as possible of weeds.
". . Select grood seed, and test it before sowing, to see how many germinate, and in how little time."

0 The above remarks are from an No. of the - Ilbany Cultivalor, and may be serviceable to sone of our readers in this Province. As far as we are aware, turnips have not been used to any great extent by our farmers, as food for caltle. The length of the winter and difficulty of preserving them, together with the difficulty of raising them, on accoint of the ravages of the fly, \&ic., having prevented much attention being paid to the subject. The insect of whose ravages our farmers complain, appears exceedingly capricious in its attacks, and we are not aware of any infallible specific yet discovered for its destruction. Some of our farmers recommend sowing early, others as strenuously contend for sowing very late, and in adopting these different modes, both have sometimes succceded, and both have sometimes failed. Were it not for the uncertainty connerted with the crop from this cause, we are inclined to believe that turnips might be profitably raised for the feeding of stock in this country, as it is in Britain.

## ON SOIIS.

Sin. - To rive a cicar idea of the chemical relation of the soil to the plants which grow upon it, it is necessary to consider, that the outermosi covering of the globe reduced to a rough powder by any means whatsocver, is termed soil, and must, on account of its origin, partalie much of the nature of the under-strata termed subsoil, and for fucility of consideration, may be divided.
I., A base, which, forms the principal substance of the soil-abous 96 or 97 parts of the 100 , and is composed, lst, of alumnia and Silicn (clay and sand, in very varying proportions, making all the varities of coil from stiff clay to loose sand; 2ud, of carbonate of lime, making the limestone land; 3rd of carbon, with small portions of silica or sand, as in peatsoil. All the three hinds of bases cont:in larger or smaller quantities of each other, making so many varicties of soil. This base serves to hold the plants by its root in the most farourable position for receiving the benefit of the atrnosphere by its leaves performing the office of respiration. It also serves in the best manner possible for the ramification of the roots, and holding fast the plant. It also acts as a diluent and distributor of the more active inorganic constituents. II., The fertilizing particles which form 2, 3, or 4 parts in the 100 of the soil, and consist of a number of substances greater than are contained in the base though so muchless by weight; they are notassa, soda, magnesia, lime, silica (sand,) alumina (clay,) and iron in combination with sulphar making sulphuric acid and sulphates, phosphorus making phosphoric acid and phosphates, chlorine making muriatic acid and muriates, and carbon making carbonic acid and carbonates, and are the ashes le $\hat{f}$ after burning regetables in the open air, and are called the inorganic constituents, and from 3 or 4 parts in the 100 of the vegetabies before heing burnt. It is this and the next division that most require the consideration of the agriculturist. III., Particles injurious to vegetation, and which are mixed intimately with the base. They are-lst. Protoxide of iron which consists in the blue and yellow clay, which combines with phosphoric acid and forms "rust." 2nc. Too much magnesia is a caustic, which sometimes happens when the marnesian limestone is applied. The magnesia not attracting the carbonic acid, and becomine neutral as soon as lime. Brd. Decomposing organic matter, which both attracts the oxygen from the atmospheric air in the ground, and charges the ground with noxious trases. Such is nearly the constitution of the soil. The carthy or inorganic medium of vegetatian, and which but supplies some three or four parts in the 100 of the vegetables produced from it,-the rest coming from wrial medium, the atmosphere. Immonia is not considerd as a constituent of the soil, for it is never found there except in the smallest quantity, and it raises into the air during the day and falls with the dew during the night. All culture and improve ment of the soil may be considered in relation to the above three divisions, and it is with consideration to the kind of base of the soil, that we are to directattention as to the leveling draining, and to the other mechanical operations or remoral of quicks, collsfoot, and other weeds, sowing the seed, and for liberating the fertilizing particies of the soil which are by nature bound up with the hase, and though they form but three or four parts in one hundred of the soil, when we consider the quantity of soil contained on an acre of ground from 6 to 9 inches deep, and when we consider the small quantity remored by cach
crop, sometimes 2, sometimes 1 or less per 100 of the green vegetable. it is no wonder that they are not exh:usted; besides by nature, they are only lthernted at a certain unknown rate per annum by the dis-integratinu causes, frost, heat, and moisture; and this rate is found too small to support a crop of vegetables every year, so that it is found needful to re-apply the inorganic constituents in the form of manure. Means are also instituted for increasing the disintegration of the base, as burning of the soil, which effects a chemical decomposition, in which potassa is liberated, and if a soil has been allowed to disintegrate for several years in succession, then it will support a crop every year until these are exhausted, provided that no particles injurious to vegetation are contained in the soil. You may wonder how it is come to the conclusion that these compounds are the fertilizins ingredient in the soil.? It is done so because, 1st, They are invariably found to constitete the ashes of plants, and as every plant has its orn kind of ashes, it grows in proportion to the quantity of its ashes foumd in the soil, as inorvanic constituents in a disintegrated state. 2d, The analysis of soils marked fertile, always contain more per hundred parts of the substances termed fertile ingredients, than the analysis of those marked sterile or barren soils. 3d. The addition of substances to the soil similar to what are termed in the second division, fertile, are always found to increase vegetation, provided that the injurious particles in the third division are removed. 4th. The soils which support a grain crop for twenty years together, is found to contain these fertile ingredients in large proportion. 5th, The unfruitful granite soils, containing few fertilizine particles, are rendered fruitful by beine mixed with powdered traprocks, which contain them in abundance; and "in St Nichael's, one of the Azores, the natives pound the volcanic matter, and spread it on ground, where it speedily becomes a rich soil, capable of bearing luxuriant crops.

Directions for esing Guano.-1. It should never be employed in contact with seeds, as it kills them immedrately they begin to veratate. 2. It should be mixed as equally as possible with about four times its bulk of finely pulverized earth, burnt clay, turf, or pot ashes, after they have become cold. If sand is used, about twice its bulk will be sufficient. 3. The quantity per acre may vary from two to four cwt. according to the nature and quality of the land. Recent experiments have shown that a quantity which proved beneficial on poor soil, became deleterious upon land pieviously rich and well manured. 4. The best time for applying it is shortly after vegetation has commenced and immediately before rain or during damp, warm weather. 5. The best mode of application is, to divide the quantity per acre into two or three equal portions, and sow them broadcast at intervals of about ten days or a fortnight. 6. For amall allotments it may be more convenient to use it in a liguid state, mix four pounds of Guano with 12 rallons of water, and let it stand for twenty four hours before being used. The same gaano will do for mixing again with the same quantity atter the first is drawn off.

Wounds ani, Broises on Horsss.-Take one quarter of a pound of saltpetre, half a pint of vine:ar, half pint of spirits of turpentine; put them tocther in a hottle, and shake up before useing. Apply it to the round with a feather, three times a day.

THE PLOUGHMAN. By moses fosten, JR. The twilight grey or early morn Appears in castern sky, And ushers in the new-born day, In bright imagery.

Old chantecleer his shrill-toned notes, Is pealing forth in praise; And from each tree the songters sing Their most melodious lays.

The ploughman rises from has couch, Refreshed by slumber's balm, And hastens to his dails toil, With renovated arm.

A fearless heart and spirit brave
Attend him in the field,
Where he with strong and steady hand The honored plough doth wield.

- He strives not as the soldier strives For victory by the sword, Sut that his house and granary With plenty may be stored.

IIis house the poor and needy ones $A$ blest asylum find,
Peace, comfort, health and charity, Are there in concord joined. .

No king beneath his palace dome Enjoys an happier lot, Than to the ploughman is bequeathed, Within his lowly cot.

A rich reward has meted him, For long and wearied toil;
To crown his labours, pleasantness Springe from the fruitful soll.

The seed time and the harvest days Bring tidinge of delight,
To make the ploughman glad of heart, Through winter's gloomy night.

The ploughman has a promise sure, And never looks in vain, As looks the merchant for the prize, He trusteth on the main.

The ressel of the ploughman sails At dawning of the spring.
And autumn's winds a rich increasc Have never failed to bring.

He builds no castles in the air, To ranish like a dream,
He risks no cargo on the ware, Of fortune's giddy stream.
With honest cheer he earns his bread, By toil and sweat of brow,
Pays homage due to God alone, And honor to the Plough.

Cow and Sezep Pastures.-Cows and sheep should never be permitted torun in the same pasture, as the latter are astir early in the morning, they gencrally get their appetites sppeased before the cows and other animals that share the pasture with them, are turned in, and usually destroy much more feed than is required to support them, as most animals refuse to cat where a sheep has lain or eren trod.

Ababilifa Shbimbich:s Receipt for making Cuebm Chelse. - Take whe quart of vety rich cream. a hattle soured, putit in a linen clotin and tie it as olose to the crean as you can. Then hang it up to drain for two days-take it down, and carefully turn it into a clean cloth, and hang it up for two diys more-then take at down, and, having put a prece of henen on a deeppsoup plate, turn your cheese upon it; cover it over whth your linen, keep turning it every cuny on a clean plate, and clean cloth unth it is ripe, which will be mabout ten days or a fortnight, or may be longer, as it depends on the heat of the weather. Sprinkie a hatle salt on the outande when you turn them. If it is wanted to ripen quick, keep it covered with mint or nettle leaves. The size made from a quart of cream is most convenient, but if wished larger, they can be made so.

Soap-A Hint in Housewifcry.-In summer and autuma your soap grease is apt to accumulate beyond your ammediate wants; if put away, it is apt to be devoured by maygots, and if made into soap, you may not have pine or other appropriate vessels enough to hold it. Having suffered loss from being placed in such circumstances; we were much gratified with a piece of intelligence accidentally received, which relieved us from the disagrecable dilemma. By builiag your soft soap with salt, about a quart of the latter to three gattors of the former, you can separate lye and water enongi to make the soap hard. After boiling half an hour, turn it out into a tub to cool. Cut the cake which swims on the top into picces. and having scrajed off froth and other impuritics. melt again, (without the lye and waier underneath, of course, and pour into a box io cool. You may then cut it up into bars of proper tameasions for drying. By adding a portion of rosin, well pulverized, at the last boiling, you will bave yellow somplike that made for market.

To destroy Cockroaches, Ants, asd other nousehold Viznun.-Hellcbore rubbed over with molasses and put round the plaees that cockroaches frequent. is a very effectual poison for them. Arsenic, spread on bread and butter, and phaced round rat or mouse holes, will soon put a stop to their ravages. Quicksi!ver and the white of an egg, beat together, and laid with a ferther round the crevices of the beadsteads and the sacking, is very cficctual in destroying hugs in them. 'To kill flies when so numerous as to be troublesome, keep cobalt, wet with spirits, in a large shallow plate. The spirits will attract the flies, and cobalt will kill them very soon. Black pepper is said to be good to destroy themit should be mixed so as to he yery strong, with a litte cream and sugar. Great care is necessary in using the above poisons where tincre are any childrent, as they are apt to eat any thing that comes in their way, and these poisons will prove as fatal to ticm as to vermm, (exeepting the pepper.) The flour of sulphur is said to be goced to drive ants away, if spoinkled round the places that they frequent. Sage is alon good. Weak brine will kill worms in gravel walks, if kept moist with it a week in the enring, and three or four days in the fall.

Lime spots on woolen clothes may be completely removed by strong vinegar. The vinegar effectually neutralises the lime, but does not generally affect the color of the cloth. Dark cloth, the color of which has been completely destroyed in spots six inches square, has thus had its original color completely restored.

To frfinent the. Bleeding of Vines.-If a picco of moistened bladder be folded orfr the end of the vise which is cut, and then bound tghtly around wath wrapping thread, it will effectually prevent bleeding.

Porato Mouming.-A faw years since, Ilseconding their eflorts. So many minds concenstated the results of experinents I had then for se- lrating their rays upon the same point, they must veral years made, in order to ascertain the utility or otherwise of the system so miversally practiced of moulding petatoes; and if I was then partly convinced of the inntility, if iot injury, of nombling, that conviction is nuw fully confirmed, after teil years experience on a soil of mediocrity, neither wet nor dry, rich nor poor. I then stated to this effect:-"I am at a loss to know, why ridge up the rows like a roof of a building, the leaves acting as tiles, assisting to throw the genial summer showers off into the furrows, where it cannot benefit the plants, being below the spongioles, or roots ?" Piling up the earth thus, causing the production of other roots, and throwing those already formed below ont of office, and thereby unnecessarily exhausting the plants, much time is thus lost, and nature plainly indicates the error of very deep planting or moulding, which, together with hocing, is generally left so long that many of the tender succulent roots are broken, to the serious injury of the crop. Thus, in the culture of this most essential root, the result of my experience induces me to conclude the moulding a loss of time, and a decided injury to the crop, which, to the poor man, for whose benefit principally I write, certainly is an object. I leave the land level, allowing the roors to extend on all sides within the influence of sun and air. I plant the tubers whole, a little deeper than is generally done, forking the soil for a time (the spade being improper for that purpose) and the weeds, of course, are kent down.-IF'm. Godsall in the Hereford Times.

Mangel. Wrrqeen.-This is a species of the beet root, and may be cultivated as a field crop to a limited extent, with much advantage. Horned cattle are very partial to this root. The culture is so nearly similar to that of turnips, that very little further detail than what should be given for the latter is neccssary. The ground, as for turnips, should be drilled, and it should be ploughed very deep, and heavily manured, with a rich vegetable compost. The most usual, and perhaps the best method of sowing the seed, is to put it in with a dibble, upon ridges twenty-four inches apart, each seed being deposited one and a hulf inch in depth, and twelve inches distance in the drill.

The advantages which this crop possesses over the turnip, are these:-It is less liable to receive injury from the fly or grub; it will produce more weirht of tubers from a given picae of ground ; it is a better spring food for stock, and will produce a considerably greater ninount of flesh than swedes, from a given weight of tubers.

Although neither mangel wurtzel nor turmips can be so profitably groun in this country to the same extent that they are grown in Britain; still every farmer might profitably cultivate far more than are grown at present.

Englisil Agriceitcre.-England presents at this time a more brilliant example than any age or country has before witnessed of the application, I will not say of science, for that would not comprehend the idea which I wish to express, but the application of mind to agriculture. The practice of agriculture, and the philosophy of agriculture, are matters of universal interest. Mien of all gradcs and conditions are labouring in this great cause, and are asking for the hor, and the why, and the wherefore. The brightest intellects are directing their talents to agricuitural inquries; and the humblest in their humble, but not ineficient way, are
trating their rays upon the same point, they must
be sure to illuminate with an extraordinary brilliancy. Agriculture is now getting to be recognized as the commanding interest of the state; so it must ever be as lying at the foundation of all others. Few persons are apprised of their obligations to agriculture; and it is difficult to estimate the extent of these obligations. Every man's daily bread, his meat, his clothing, his shelter, his luxuries, all come from the carth. The foundation, or as the French would say, the materiel of all commerce and manufactures, is agriculture; and its moral influences are innumerable and most power-ful.-Colman's agricullural Tour.

## A CATTLE SHOW AND FAIR

FS to be held at Ar Leean's in Maugerville, on Tuesday, the 8:h day of October next. at 10 o'clock in the forennon, when the following Premiums are offered for the following Stock, viz :-
For the best Bl:LL, of any age, $\quad$ fl 00 For the second do. do. 015
For the third do. do.
do.
$\begin{array}{lll}0 & 15 & 0 \\ 0 & 10 & 0\end{array}$
For the best cow, For the second do. For the third do. For the best RAM, For the second do. For the best BOAR,
do. 0150
do.
0126

For the second do. do.
0150
do.
$\begin{array}{lll}010 & 0 \\ 015 & 0\end{array}$
A:d for Domestic Manufacture viz:-
10 Yards best Ilomespun Fulled Cloth, $\quad 10126$ second best do. do, do. 0100
10 Yaris best Ilomespun plain Woollen Cloth, either coloured, figured, or white, do. do.
Sccond do. do. do. 12 l'airs of best Mittens,
12 do. do. Socks.
6 Best hand Hay Rakes,
6 Best Hay Forks, with handles,
6 Best Manure Forks,
0100

And for the best sample of Produce, viz :-
Best quantity and quality of Indian Corn, from
a quarter of an Acre,
£1 0 Second, do do 0150 Third do. do do. 0100 $\begin{array}{cccc}\text { Best of Potatnes: from half an Acre, } & 0 & 15 & 0 \\ \text { second do. } & \text { do. } & 0 & 10 \\ \text { do }\end{array}$ $\begin{array}{lllll}\text { second } & \text { do. } & \text { do. } & \text { it } & 10 \\ \text { third } & \text { do. } & \text { do. } & 0 & 5 \\ 0\end{array}$
Best quantity and quality of Turnips, from a
 third do do. do. 0 jo
20 lb . Clover seed,
second to.
2 bushels of the best Timothy secd, $\begin{array}{llll}\text { bushels of the best Timothy secd, } & 1 & 0 & 0 \\ \text { second } & 0 . & 0.5 & 0 \\ \text { third } & \text { do. } & 0 & 10\end{array}$
do.
100
0100

No aminal or article exhibited to be ontutled to a Premum unless considered worthy of such.

All ammals and articles exhihited fur a Premium arn to be nwad by the members of the "Suabury Agricultural Society," and to be marked by a number attiached them previous to the exhibition; the number and nane of the owner to be kept by the Secretary.
Persons competing for produce and fulled cloth, to acquaint the Serretiry on the day of the cattle show, and be prepared to satisfy the Judges on the last Saturday in December.

Cillily L. HaTHEWAY.
Scc'y \&f TYeasurer.
Sunbury, May $24,1814$.

##  <br> FOR COUNTRY WEAR.

T
VHF Subscriber has just received a large lot of Men's, Women's Girl's, Boy's, and Childòren's strong BOOTS and SHOES, suitable for Country wear, for sale at very low prices for Cash, at

FOSTER'S Chenp Shoe Storc,
Quecn Strcet.
Fredericton, June 14. 1611.

## Saint John Agricultural Society.

NOTICE is hereby given, that this society offer for competition the following Premiums, which will be awarded at a Fair, to be held at the city of Saint John, on day in September or October next, to be hereafur named :-
For the best entire Horse, between three and six years of age, fit for farming purposes, owned in the County, and to remain therein tor the next season,
t'50 For the best threc year old Bull,

$$
\begin{aligned}
& \begin{array}{lll}
\text { ". "'wo yearold. do. } \\
. " & \text { " Two year old Heifer, }
\end{array} \\
& \text { Ram, } \\
& \text { Ran' Lamb, } \\
& \text { Ewe La:ab, } \\
& { }^{3} \text { Boar, } \\
& \text { Sow, } \\
& \text { Spring Pig. } \\
& \text { " " (ialf }
\end{aligned}
$$

All tho above anmals, (except the horse,) must have been bred and owned in the County.
For the best pair of Geese, alive,
For the best pair of Ducks, do.
For the best pair of Turkeys, do.
For the best pair of forsle, cock \& hen,
For the best cheese, mede in the county,
For the best tub of butter made in the county, not less than 401 b . weight,
Second best ditto,
or the best lolbs. of roll butter, made in the county, $0 \quad 5$
It is to be understood, that the Society reserve the right of wisholding the Premium, in cases where there is no opposition and the animalo or articles exhibited are not of superior character.

By order of the Committee,
M. H. PERLEY, Secretary.

Saint John, June 1, 18+t.

## LEMONT'S FANNING MILLS 

THE subscriber has constantly on hand, and for sale at his Shop, corner of King and Regent Streets, a number of Fanning Machines of different patterns, which le will sell cheap for Cash or Country Prodece.

Also, HAND RAKES of a superior description.
MARTHELEMONT.
Frederieton, 20th May, 18.14.

## PLOUGHS! PLOUGHS!!

AGood assortment of PL.OUGHS, 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. HATHEIVAY.
Fredericton, May 15, 1814.

## NEW CHEAP SHOE STORE.



TIHE Subscriber most respectfully informs his friends and the pablic gederally that he has taken the Shop next above Mr. 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 business, he will receive a share of the public patronage.

BOOTS 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. Gentlemen's Dress BOOTS, Waiking SHOES and PUMPS, made to order at the shintest notice.

Sole Leather, Upper Leather, and Calf skin, of the rery best quality, either wholesale or cut in any quantity, and will be sold as low as can be bought in town. Green Hides, do. Calf skins will be taken in exchange.
$[13$ The Subscriber can assure those who farour him with their custom, that for neatness and durability, his work will not be surpassed by any in the Province.

GEORGE COUY'JHARD.
Fredericton, May $99,1844$.

## TA LETE.

TTHE HOUSE in Carlcton Strcet, next to the Methodist Chapel, the residence of the late Dr. Emerson Apply to

Predericton, April 24, 1814.

## CHEAP STORE

## No 4, NOR'TIISIDE OF KING STREET.

T1 HE Subscritier offers for sale at the above Store Brown and Loaf Suy r, Mess Pork, Teas, (a superior article, Coflee. Chocolate, Mot's prepared Cocon, and Cocoa Paste, Cheesc, 'Yobaceo from th. to 9 s. Gd. per pound, fine Salt, Vinegar, Mustard. Ginger, Pepper, Spice, Cinnamon, Cloves, Nutmees, Starch, Soap, Imigo, Dye Woods, and Colourings of different kinds, with a varjety of other articles, at dow prices for Cash.

JOHN'T. SMI'TII.
J. T. S.-Will keep a constant supply of Sime's Domestic Manutactured Brooms, and MeLardy's Soda, Butter, and Water Biscuit, at wholesale and retail, as low as can be purchased in the City.

Saint John, June 7, 1844.

## BLACKSMITHING.

TVIIE above business is carried on by the Subscribers at their Shop in Queen Street, next door to $H$. Garcelon's and adjoining the building on the corner of of Queen and Westmorland Streets. owned by James Tibhets, Esq.. where they are prepared to furnish all kinds of work in the above line. Axes and all kinds of Edge Tools furnished upon reasonable terms, and warranted to be Good.
H. A. ESTABROOKS.
'TIEO. R. ES'MEY.
Fredericton, June 19, 184.t.

## 

TTHE Sthscriber has bad his CARDING MACIMNF put in tirst rate order. . He will commenge CARDING during the ensuing week, and will then be prepared, promptly and satisfacforily, to exccute, at his Steam MIIfi, Fredericton, any work, in the above line, which inay he entrusted to him.

TIIOMAS PICKARD.
Fredericton, May 14, 184.t.

## FOR SALE.

 I,ot of LAND in the Hanwell Settlement, being the Northeastern half of Lot No, 29 , on the Southeastcrn side of the Hanwell Road, having a front of ten chains on the said lhoad, and containing 90 acres more or jess. Enquire at the office of B. IV. Hammond, Esquire.

Fredericton, April 3, 1844.-3m.

## THREE FARMS FOR SALE.

THILY are within two miles of Fredericton. Any Person wishing to purchase a place already under cultivation, may have an opportunity of suiting themselves by calling on the Sulscriber.

THOMAS PICKIARD.
Fredericton, May 14, 1844.
TANNING AND SHOE MAKING.

THF: Subscriber respectfinlly informs his friends and the Public, that he has tiken the Tanmery in King Street, owned by Mr. Jarvis Ring, and lately in the occupation of Mr. Z. G. Gabsi., where he intends carrying on the above business on tise Cash System.

Persons wishing to have Hides Pamned on Shares will please favor him with their Custom, and they will be attended to without delay.
MEN'S STRON゙G SHOES will be sold at this Establishment, from 7 s . Gd. to 10 s ., and WOMEN'S SLOES, from 5 s . to 10 s .
$1{ }^{3}$ Currying done at the lowest prices.
W. F. BARKER.

Fredericton, May 8th, 184.t.

## FIRE! FIRE!!

FW. MATHENVAY, Agent for the Protection - Insurance, Company, continues to Insure Property of all descriptions against Loss or Damage by Fire, at very low rates, so that parties for a very small sum may keep their property safe, which, in case of any accident, would prove of great importance to them and the amount of Premium would never be missed should they be fortunata enough to escape the devouring element. Personal attendance to survey free of cxpense to applicants within the limits of the Town. Applicants from the Country must describe the Property wished to be Insured, and must always be bound by the description they give Fredcricton, 17th Novenuber, 1813.


NEW GOODS.
The Subscribers hate received by the Porthand, from London, and Palancrston, from Liverpool, part of then Spring assortment: consisting of-

IB
IVCK and coloured Gros de Naps and Ture Satins Watered Orientals, Sarsnets, Persians and Bonnet $S \mathrm{tuff}$.

170 pieces Plain, Striped and Brocaded Orleans, Parisıars, Paramattis, I ustres, Syrian and Cobury (loihs.

650 pieces Printed Calicocs, Rich Frmted Minshn Iresses,

120 pieces Furnitures. with linings to match,
40 pieces Inamask and watered Moreens, Brocade, and ctaped Furniture Dimity, Orris and Float Lace, Furniture (iimps and l'ringes,

120 pieces IVindow MIuslins, newest styles,
TH0 pieces RIBBONS,
Artificial Flowers; Parasoles and Cmbrellas,
300 dozen Black, White and Coloured Ilosierv.
130 dozen Lace. Kid, Lyle, Silk and Cotton Gloves.
100 pieces Muslins, in Jacunet. Mull. Pook, Checked,
Striped, Swiss, Muil and Book, Victoria Lawn and I.appet,

150 pieces Netts. in Plan and Fancy Brussels, Wire, Freach Square, soft finish, and Black and Coloured.
90 dozen lndiana and 「ancy bilk and Satm Handkerchefs.

130 pieces Silk l'ocket Mandkerchefs; 60 preces $\lambda$ eck Handkerchicfs and Scarfs, newest styles.
3) pieces Broad Cloths,

120 pieces Buckshins. Dueskins, Keraevmeres, Dweeds, Ciambroons lastings, Shepherds' l'jad. dee.

330 nieces liolled Jaconets; 50 picees Sehenas and tissbans.

Marseilles Quilts, Counterpancs and I'oilei Covers, An assortment of Shawis, newest styles,
Presem, Dunstable, Devon, Rutland and Fancy Bonmetr, Boys' and Mens's Straw Hats.

480 Beaver and Silk-Hats, Boys' and Cients' Cloih and Fancy Caps.

230 pieces Cotton Handkerchiefs, and Fancy Cravats,
20 pieces Chintz Druggets, English, Welsh and Saxony Finnnels,
8.t Linen and Cotion Sheetings, Cotton. Swandowne.

White and Brown Table Cloths, Oil Cloth do.
15 pieces Bed Tick, Brown Hollands, Damask, Table Linens,

Black, Whte and Coloured Crapes, Rouches, Borders, Lsdies' and Infants' Caps,

45 dozen White and Coloured Stays,
Iinens, Lawns, French Cambrics, Lanen Handkerchicfs,

2,310 dozen Silk Fringes and Gimps.
Drawing Nets and Muslins, linen and Imperial 'lapes, best drill d eyed Nicedles, assorted papers,

A large assertment of lace, Muslin and Dimity Capes,
Collars, Cardinals, Hobit Shirts and Berthes, newest styles,

460 pieces Grey and Whitc Cottons,
53 pieces Regatta Shirtings,
Rich Silk and Satin Stocks, Sllk and Cotton Velvets, Velveicens,

Rich Satin Vestings, Royal Marseilles, \&c.
Fancy Plaids and Satteens, for Boys' dresses.
Thread Laces. Edgings and Insertions.
I.ve, Brussels, Gimp, Point, Point D'.llincon and

Plait Laces and Insertions,
Lace Scarfs, Veils and Demi Veils,
Writing Desks, Travelling do. Work Bozes, Dressing Cases, Cash Boxes, Dressing Combs, Ivory and Shell do. Hair and Tooth Brushes,

Jewellery, (Warranted,
Travelling Bags, (Patent Locks:)
Linen and Cotton Drills,
70 dozen Gents' Cotton and Merino Socke,
2 Cases Cutlery, consisting of Razors, Scissors, Pen-
Lnives, Jacknives, Knires and Forks, de. \&c.
Tailors' I'rimmines, Small Wars; \&ic. 太c.

. * The Subserbars expect the remainder of their Stork hy the Jalize and Sarah Mlaritt, from Laverpool, and Ctammore, from Glasqow.

## DOLIERTY \& M'TAVISH,

Sign of the Goiden Flecee, Prince Wrilliam Street, St. John, cand Quaron Strecl, Fralericton, N. $B$.

May 29 , 164.

## NOTICE.

reviffe Subseriber has on hand Fresh Flonr, of the very In'st quality ; Fresh Indian Meal and Ont Meal; Indhen Corn in Bugs and by the Bushel; Wheat Bran and llorse Feed.

## GROCERIES.

I oaf. Crushed and Lrown Sugars; Molarses; Tea; Cufice; Pepper; Allspice; Cinnamon; Cloves, sic. \&e.

## DRE GOODS.

('loths; C'ottons; Prints; Mole Skins; Merintoes Orlenm; Cloth; Linen; Lining Cotton; Mandkerchefs; Mualins; Thread; Cotton Warps, \&c. These the Subscriber olfers for C'ash at the lownst prices.

THOAAS PICKARD.
Fredericton, July 2, 1811.

## FREDERICTON HOTEL.

Coracr of Regent and Brunswich Streets, ncar the Artillery Park.

TIIIE Subscriber begs to intumate to his friends and ther public that the above I.staminsmate.nt is now open for the reception of Visitors, and he flatters himself that from his long experience in the Business, together with the adidionn accommodation which he can now affind; he will be able to accomodate visitors to Fredericton in a style inferior to none in the Province. Thr Ilonse has bein built and fitted up for the purnose of an lloiel. The out-door establishment is extensive, and when completed. will be superior to any in New Brunswick. A Coach will be in attendance to ronvey those who patronise the HRFDERICTON HOTEL, from and to the Steam Boat landing, for which no additional charge will be made. Charges at this Establishment will be found as moderate as any other in the country for the like accomodation.

WILLI.MM SEGEE.
Fredericton, May 22, 184.f.

## S. A. AKERLEY,

ATuctioneer
and Commission Merchant, Quecn Strect, Fredevicton:
IIas just reccived on Consignment the following articies : TVVFA; $10 \mathrm{cwt}$. TOBACCO; 20 cwt SOAP; 20 cwt . Cut N.AlLS ; Mould CINDLES; 5 cwt. English (HEESE; 4 cwt. COFFBE; 3 cwt. SALERATUS; Soda BisCliT ; 50 Boxes (ilass, from $7 \times 9$ to $11 \times 18$; 8 cwt. Smoked HAMS; 20 M. CIGARS; and constantly on hand, IIousehold FURNIITURE.
'Jle above will be sold at private sale at Auction prices. June 25, 184.

## MISS O'CONNOR,

WOULID return thanks to her friends and patrons for the liberal encouragement afforded her since opening the Ilouse in Queen Street. opposite the Commissariat Office, for the accommodation of Transient and steady lloarders. She respectfully solicits a continuance of the same, and would fain recommend her Establishment to the notice of the Ladies and Gentlemen visiting Fredericton; its central and pleasant situation, so desirable for the temporary residence of such visitors, are recommendations in its favour; with the assurance that the most strict attention and diligence shall continue to be used by her, to insure the comfort and convenience of those who may be disposed to faror her with their patronage.

The House is in thorough repair, and contains spacious and commodious appartments contiguous.to the landing of the steamers and public offices.
$\prod$ Good Stableng fumished for Horses.
Fredericton, May, 1, 1844.

## F

 TOR SALE-An Excellent Carriare. Apply to G. F. H. MINCHIN.Fredericton, May $22,1844$.

