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THE COLONIAL FARMER,

EVOTED TO THE AGRICULTURAL INTERESTS OF NOVA-SCOTIA, NEW-BRUNSWICK, AND PRINCE EDWARD'S ISLAND.

OL. 2.

HALIFAX, N. S., APRIL 1, 1843.

NO. 19.



THE COLONIAL FARMER.

HALIFAX, N. S., APRIL I, 1843.

HIGHWAYS.

Kings works:" This unlucky term has cost the Province mento make a good road from Halifax to Windsor; happily it ment now do any great harm, although there are still in cer places remains of the old feeling; fifty years ago when the leturned out to perform their statute labour, it was rare to sparty that did one third the work they might have done; s, however, usually flattered themselves that they had done a d days work for "Kings works," and frequently observed that her a man worked for nothing, and found himself, it was not be expected that he would hurt himself by hard work." As they By felt a little ashamed of their scanty work, they devised many mious apologica. A considerable number had no teams, and and that it was very unjust that they were compelled to make for those that were richer than themselves without any commion; numbers who had teams asserted that they would work a hearty good will, were it not that their roads were more sout by the inhabitants of the next village than by them-L Every one gave some good reason for idling away his . Now these men did not all act like fools at all times, but practice was common enough to prove that it is not a hard to teach men to be fools. Good roads are necessary to all: particularly to the Farmer, who can hardly succeed without s, and when he is repairing roads he is working for his own It as much as he is when he is driving his load of hay upon We well remember the time that what were called Roads ighout the Province were in a most wretched condition. ax was supplied with veal, mutton and poultry from Boston, pork and beef, and the greater part of the butter came from nd. A vessel was expected from Cumberland in the fall with rand some cheese; and some butter came by land in tubs were brought in bags slung across the horses backs, for we ex roads upon which a wheel carriago could pass in Novemand it was often necessary so assist the cattle that were driven on, to get out of the mire, which in many holes in the roads yard deep. Upon the level part of the road to Cobiquid at time the foot passenger had the choice of stepping into a pudclayey water about six inches deep, or of placing his feet the ridges of mud between the puddles, where he would only to the tops of his shees. The faces of the dry hills between

hollow channels full of rolling stones. To Sir John Wentworth and the late Hon Michael Wallace must be attributed the honor of commencing in serious earnest to open and improve the rusds. The effect was soon perceptible. Country produce arrived in town in quantities that surprised the Inhabitants, who soon discovered that the mutten and poultry of this country tasted as well as that which came from Beston. For some time the majority of the inhabitants believed that the butter was inferior to the Irish, but most finally learned to prefer it. There was more difficulty in introducing the pork, it being generally asserted that it was imposvible to raise such as would be fit for salting, and had there not been in the town a few who having been American farmers, had been accustomed to raising and salting pork, this prejudite would have kept it out of the market for a long time. It was however finally discovered that good pork could be raised here as well as in Ireland; and it was also discovered that the countrymen would vaise something to bring to market as soon as they had roads they could pass with carts.

Our present custom of appointing overseers and commissioners of roads necessarily puts this business into hands of inferior skill in many cases. We are not born with the knowledge of roadmaking any more than we are with that of any other mechanical art. By long practice we acquire skill, and when this skill is transmitted to others who learn something themselves, it in time becomes an art which can be committed to memory, and which will point out a correct practice to those whose talents would never have enabled them to discover it without such assistance. The art of making roads is a branch of engineering, and there are books which give much useful information on this subject, but they are, in general, works which are not easily procured in this Province. even at a high price. We have however reason to believe that this desideratum will soon be supplied by the publication of a cheap work which will contain an abstract of all the principal improvements in roadmaking which have been introduced into Britain of late years. We recollect the admiration which was generally expressed by teamsters upon passing the road near the Lodge, and the road to the Tower, made under the direction of the Duke of Kent. Such roads had not before been seen in Nova Scotia, and it had been generally supposed that there was no such thing as a rond without ruts; but as the remarkable case with which loads were drawn upon these smooth hard roads was observed by all, attempts were soon made to imitate them, generally in a very imperfect manner, as our road makers did not understand the principles of their work. Had there been such a Treatise as the one referred to generally circulated when the improvement of our roads commenced, we are convinced it would been of more advantage to the Province, than all the money that was ever expended on the roads in any one year.

CUCUMBERS.

tyard deep. Upon the level part of the road to Cobiquid at time the foot passenger had the choice of stepping into a pudication of clayey water about six inches deep, or of placing his feet the riages of mud between the puddles, where he would only the tops of his shees. The faces of the dry hills between the tops of his shees. The faces of the dry hills between the place where they were affected with black spots within twelve years, for there is reason to believe that the eggs of these

vermin like those of Grasshoppers will retain their vitality for many years while in a dormant state, ready to come forth in a favourable season. Hot beds should not be made in the situation they occupied the last season; the frames and sashes should be thoroughly wetted with strong brine, and not a handfull of rotted manure from the old bed should be put in the new one.

PEAS.

Do not sow peas upon the ground where they were raised last year. This precaution may sometimes be neglected with impunity in small gardens in town, but in the country if they are raised for two years in succession on the same ground, the roots will certainly be attacked by the peawerin, and yellow leaves will appear as soon as the blossoms. Dry grass land that has been broken up, and produced one crop of potatoes will always bear a good crop of peas.

CABRAGE AND SWEDISH TURNIPS.

Remember that no manure which contains the scrapings of a cellar where turnips or cabbage have been kept, nor any rubbish from a yard where the parings of turnips, or cabbage stumps have been thrown, should ever be used for these plants, as it will produce the disease called Club foot, Anbury, or fingers and toes. There are some grounds where Cabbage and Turnips have been often raised, that are so full of bugs or their eggs, that the plants will be clubbed even when stable manure is used. It is best thesefore to use ground where such plants have not been previously raised, but in gardens where there is no choice of ground, either mix a portion of ralt scawed with the manure, or else sprinkle a little pickle of fish or meat over the land after sowing the seed. Salt in any form destroys many eggs of insects.

To have good heads of large kinds of Cabbage they should not be planted nearer to each other than thirty inches. On very rich land the distance may be three feet. Two or three plants may be set together, and when they have grown so much as to be out of danger from grubs, pull out the weakest and leave but one in a place.

TIME OF APPLYING MANURES.

Manure produced the greatest effect spread on grass land in the spring, as soon as the field appeared green.

When spread on either grass or plough land in the full there was a loss of nearly one third the value of the manure.

When spread on plough land in the fall, and ploughed in, there was a loss of more than three fourths.

When spread on grass land directly after the hay was taken off, in a very dry sesson, there was a loss of one half.

When spread on grass land at the same time, in a wet season, there was but little loss.

These experiments were made on a dry gravelly soil.

When the wash of the kitchen is thrown upon rotten chips or sawdust it makes an excellent manure for many purposes, but should not be used for potatoes, as it always contains a great number of the small hair-like worm, which by eating the skin from he potatoes makes them what is called "scabby." A mixture of decayed tanners bark has had the same bad effect upon potatoes.

In old gardens which abound with wire worms, sow beets as early as possible. If they are sowed late the wire worms will cut them to pieces after they have sprouted, and before they reach the top of the ground.

POISON FROM DECAYING SAUSAGES.

"The poison of had sausages belongs to this class of notice substances. Several hundred cases are known in which death he occurred from the use of this kind of food. In Würtemberg pecially these cases are very frequent, for the sausages are prepare from very various materials. Blood, liver, bacon, brains, millimed and bread, are mixed together with salt and spices, the military is then put into bladders or intestines, and after being body is smoked.

When these sausages are well prepared they may be pre-cing for months, and furnish a nourishing savory food; but when spiles and salt are deficient, and particularly when they are souch too late, or not sufficiently, they undergo a peculiar kind of pure-faction, and they are found to contain free lastic acid, or lactate a ammonia, products which are universally formed during the pure faction of animal and vegetable matters.

The death which is the consequence of poisoning by putters sausages is preceded by very lingering and remarkable symptoms. There is a gradual wasting of muscular fibre, and of all the constituents of the body similarly composed, the patient becomes maximated dries to a complete mummy, and finally dies. To carease is stiff as if frozen, and is not subject to putrefacted. During the progress of the disease the spittle becomes gluey, as acquires an offensive smell."—Leibig.

We have never heard of a case of the above described diseases this Country, but we know that sausages resembling those describe are used by some people in the Province, and publish this extra that if such a disease should appear, the cause of it may be known and avoided; we are inclined to believe that this malady is on fined to Europe; it is very remarkable that it reduces the body of the patients to the same state as those of birds and other at mals which are impregnated with Arsenic or Corrosive Sublimit to preserve them.

IMPORTANT TO PAINTERS AND PLUMBERS

Leibig asserts that the Painters Colic is unknown in all the manufactories of white lead in which the workmen are accustored to take as a preservative a drink made by putting a little sulphracid (Oil of Vitriol) into sweetened water.

HALIFAX AGRICULTURAL SOCIETY.—The prizes for grainoffar by the Halifax Agricultural Society, were competed for on the inst. at the farm of John Winters, Esq. Messrs. Lovett, K. Mitchell, and Rugg, were appointed Judges. The prizes of awarded as follows:—

To Henry Pryor, Esq. the first prize for Wheat, 63} lbs a bushel; the second prize to Edward Pryor, Esq. jun., weight lbs. 5 oz. A sample from the Farm of Mr. W. S. Moore, we equal weight. Mr. Archibald McCulloch's wheat was only ounce less. The other samples were from 60½ lbs. to 61 lbs a bushel. The first prize for Oats was given to Mr. Archibald Culloch for a superior sample, weighing 46 lbs. per bushel, at the second prize to Mr. W. S. Moore, whose Grain weighed lbs. All the samples brought forward were pronounced by Judges to be of superior quality, and highly creditable in the 45 cultural spirit of the Peninsula.

Excretions of Plants.—From an essay on the Radiell cretions of Plants, by A. Gyde, he infers from a series of exments:

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- 1. That most plants impart to water certain soluble submor exerctions.
 - 2. That this is identical with the sap of plants.
- 3. That plants have no power of selection, but take into texture any solution offered to their roots, and that they have or no power of a gain excreting it.

4. That plants watered with excretion receive no injury from

For the Colonial Farmer.

ELEMENTS OF AGRICULTURAL CHEMISTRY AND GEOLOGY.

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COMPOUNDS OF AUFORDANIC FLEMENTS.

[Continued from Number 18]

5.—Ammonia. — With the exception of atmospheric air, the submaces which we have hitherto noticed can furnish no nitrogen to
plasts; this they in great part derive from the compound now to
be considered. Ammonia is a compound of nitrogen and hydrogra (N. H. 3.) Though composed of two gasses destitute of taste
ordered, and itself a gaseous substance, it has a burning taste and
pagent smell. Anomia is absorbed by water to the amout of 670
mass its own bulk; when thus dissolved in water, it constitutes
be common spirit of hartshorn, whose taste and smell are those of
far Ammonia which it contains. It also combines with acids
faming salts; the most common of which are, Sal Ammoniac,
which is a cumbination of Ammonia with Muratic Acid, and
Smelling Salts, in which it is combined with Carbonic Acid. The
respectives of Ammonia which, are of most consequence to vegetaliouse,

Ist.—Its being produced in the decay of all animal and many agriable substances. The strong smell of stables and urine, and deranimal matters in a putrid state, is principally owing to the cape of carbonate of ammonia; hence the wastefullness of allowarich manures to remain exposed to the air, until this valuable agredient becomes almost entirely dissipated.

2.—Its great soulubility in water. The Ammonia which the unless farmer allows to escape from his stable and dung heap, is at lost, but only added to the general stock of nutriment for vestation, Every shower washes from the air a quantity of Ammonia, and to this the rain water owes both its softness and its superispower of nourishing plants, compared with pure water. The contact of the soil also serves to retain, and convey to the roots of tasts, the Ammonia produced by the decay of manures which may shoried in it.

3.—The case with which it may be decomposed, and separated on other substances, when combined with them. In the former speci, it cannot be doubted that it may, like water, when introzed into the vessels of plants, be readily divided into its contacted elements, and applied to the purposes of nourishment, add the latter the readiness with which its compounds undergo larges when exposed to the action of other bodies furnishes considerevidence. When lime is added to animal manures, a strong pell of carbonate of Annonia is instantly exheled, and hence the jurious effect of lime when applied to such substances. When are is buried in the soil, however, this decomposing power may reto set free ammonia, in circumstances favourable to its being sorbed by plants.

When common gypsum comes into contact with Carbonate of muonia, a double decomposition takes place, so that

ubonate of Ammonia and and laphate of Lime Surpluse of Lime Surpluse of Lime

Now Carbonate of Ammonia, as before stated, evaporates rapidwhen exposed to the air; whereas the Sulphate of Ammonia is thus volatile; and thecircumstance of a volatile Salt of Ammoa, being thus changed by the agency of gypsum, into one that sted, is of great assistance to the Farmer. Thus when gypsum strewed on the floor of a stable, the Carbonate of Ammonia, ich is formed in such places, instead of being permitted to escape to the air becomes converted into the Sulphate, and remains uni-

ted with the gypsum, every pound of gypsum thus saturated with Aminonia, is able to supply all the Nitrogen required by 12 nousels of wheat. Of all the manures produced on a Farm, urine is undoubtedly the most valuable; but a great part of its utility depends upon the quantity of Nitrogen which it contains, and it it be allowed to dry up alone, much of this escapes as Carbonate of Aminonia, this loss also may be prevented by Gypsum. A part of the influence of Gypsum, when strewed upon fields, may also be ex, laised by this property; for the gypsum lying on the soil, not only fixes and prevents from escaping the Aminonia which may rise from the ground, but attracts it from the air; and they from the very winds that blow over it gathers valuable nourishment for the growing crops.

4—Ammonia is largely absorbed by various substances. Powdered charcoal absorbs 90 times its bulk of Ammonia, and decayed wood 7.2 times its bulk; hence these substances when plentifully contained in a soil, are capable of catteeting and retaining, for the use of plants, an abundant store of Nitrogen. In a manner somewhat similar, burned clay, coal ashes, and the red Oxide of ron (red ochre) absorb Ammonia from the air. The effects of burned clay as a manure, and the fertility of those bright red soils, which are colored by exide of Iron, are partly to be ascribed to this cause.

By referring to the little table of the composition of wheat oats, &c. formerly given, it will be seen that nitrogen constitutes but a small portion of these and other vegetable substances. From this however we must not conclude that introzen is of little importance; all these parts of plants which afford the most valuable articles of food to animals contain pitrogen; and the production of such nutritious substances is the principal object of Agriculture. Thus wheat contains more nitrogen than eats, and these more than potatoes; and the nutritive properties of these three substances, are in proportion to the quantity of nitrogen which they contain; so also, in some degree, are their values in the market. It must always be an object with a Farmer to produce the most nutrative and valuable crops; and since these are the crops which contain the most nitrogen, it must be of importance that he should supply as much as po We of this element to his fields, It is also known, that not only does the quantity of nitrogen vary in different plants, but also that it varies in plants of the same kind, in proportion to the quantity supplied by art. Thus if one half a field of wheat be manured with substances containing ammonia (urine for example) not only will that half bear the most abundant crop, but the wheat which it produces, will be more nourishing, will make better flour and better bread than that of the other half. Nitrogen then being of so great importance, and Ammonia being one of the principal substances, accessible to the farmer which can yield it to plants its utility and the attention which it deserves are evident.

6. Nitric Acid—Is a compound of nitrogen and oxygen (N. O. 5) and when dissolved in water is the substance commonly known as aquafortis. It combines with a great number of substances, and it is in these states of combination that it is usually found in Nature; common saltpetre is composed of nitric acid and potash. When applied to plants, nitric acid and its compounds act by supplying nitrogen, and perhaps also oxygen. In some plants, such as tobacco, which contains much nitrate of potash, it remains in an unaltered form.

In warm climates, decaying animal matters often produce nitrio acid instead of ammonia,—this, however, does not so often occur in temperate regions. In them, however, it may be obtained in a different way. If heaps of earth, mixed with decaying matters, be left for some time exposed to the air, and if the earth be afterwards washed with water, a quantity of nitrate of lime, potash, &c. will

be obtained from it. In France and Sweden, saltpetre for the manufacture of gunpowder, is obtained in this way. The sides of limestone caverns, the mortar of cellar walls, the earth of mud dykes, and compost heaps, become impregnated with nitrates in a similar manner. In the district of Arica in Peru, deposits of nitrate of soda are found beneath the soil, and the mineral dug thence, is exported to Britain, where it is advantageously employed as a manure.

In this climate pitric acid and its compounds cannot be so abunflantly obtained as ammonia, and are not so much under the control of the husbandman; but whenever they can be procured, in any of the ways noticed above, they will be found extremely beneficial.

7. The Organic matters contained in the Soil. - Every fertile soil sontains a portion of vegetable or animal matter produced from plants which have grown upon it, or artificially added in the form of manure. Such matters have always been considered very efficacious in increasing the productivenes of a soil, we must therefore now enquire how and to what extent, they can afford nourishment to crops. This enquiry becomes more important, when we consider that all the substances hitherto noticed are furnished to vegetation by the atmosphere, and consequently that if plants rarely derive any organic matter from the ground, on which they grow, it must be furnished by the substances now to be considered. In the very outset of this investigation, we find some facts which

In the very outset of this investigation, we find some facts whi limit the amount of influence attributable to organic manures.

- 1 Their very urine shows that they themselves are products of vegetation, so that a time must have been when there was no vegetable mould. The first plants that grew in any place, must have been nourished solely by dead inorganised matter.
- 2. In accordance with this, it is found that plants supplied with salt water, carbonic acid, and Ammonia (or watered with, rain water, which contains the other substances) will grow in sand or play altogether destitute of animal or vegetable manure.
- 3. Plants growing in a wild state, add to, rather than diminish the quantity of vegetable soil. Land left long in grass or covered with forest trees becomes richer in vegetable mold; green crops, such as clover, when ploughed in, act as manure to soil, which would be impossible if their own substance had been derived from it; and in moist places, vegetables often add to the soil so much organic matter that thick beds of peat become accumulated.
- It is evident therefore that plants can obtain from the air and water, substances such as the first six compounds which have been described, can convert them into vegetable matter, and when they die, leave this to form vegetable mould. But it is equally evident, from the experience of all farmers, that organic manures greatly increase the luxuriance of crops; this may be accounted for in four ways.
- 1. Some organic substances, such as gum and augar, are soluble in water, and when plants are watered with solutions such as these, their vigour is increased. It is however plain that no manure applied by the farmer, can contain much matter of this kind, and very little of it can be left in the soil, by plants which decay where they grow.
- 2. Vegetable matters placed in the soil soon begin to decay or ferment, and in the earlier stages of these processes, several substances are produced different from any which existed in the living plant, but capable of being taken into the sap of other vegetables, and aiding their growth. Most of these half organised substances produced in decay, are like woody fibre, compounds of oxygen,

hydrogen and carbon, but in different proportion: and many of them are acids, so that they are capable of combining with hims, potash and similar substances, and carrying them with them into the roots of plants. Two of the best known of this class of so a stances have received the names of humas and humic acid. The former is merely woody fibre in a particular stage of decay, and the latter is produced from humas, when potash or other alkased are brought into contact with it.

- 3. The final result of the decay of animal and vegetable matter in the soil, is that they become resolved into ammonia, carberg acid, and the other substances which we have already considered; and their slowly producing these, around the roots of plants, probably explains a large portion of their efficacy as manures. It also partially explains the utility of loosening and pulverising by soil; for decay being a slow process of combustion, air is necessary to order that the manures may be rendered available, and thus money readily admitted into the loosened soil.
- 4. We must not forget that all vegetables yield a quantity of ashes, or inorganic matter, and this also is set free when they decay in the soil. Their effects, in this way, cannot at present be considered, but we shall hereafter see that they form a most important part of the action of organic manures.

 While therefore plants can obtain the greater part of their or-

ganic constituents from the winds and rains of heaven, they are do greatly assisted by the presence, near their roots, of matters when have already formed part of organic atructures. These are partcularly important in the earlier stages of growth, as a plant waxi is enabled by their means to attain a state of vigorous health, will possess a greater power of attracting and assimilating substance not yet organised, than its more weakly neighbours, which have been forced, from their very infancy, to depend upon the kindees of nature for a subsistence 1 hence the improvement which cards cultivation can affect in vegetables of every kind; and hence the luxuriant herbage which springs from the well-manured field of the careful and industrious farmer, is able, by means of its welldeveloped roots and abundant foliage, to use, in its own incress all the matter brought by air or water within its reach, while the bounties of Pravidence are in a great measure lost to the started creps of an impoverished farm.

RECAPITULATION.

Before leaving this part of the subject, it will be useful to neet the most important of the conclusions deducible from vib has been already stated.

We have seen that plants contain a variety of organic substance differing from any forms of dead matter, and of inorganic matter derived from the inineral matter of the soil.

The organic part of plants we have found to consist of that gases, oxygen, hydrogen and nitrogen, and one solid substances on the solid substances of plants is obtained in the following ways. Ist To Oxygen of plants is obtained principally from water, and cather acid. 2ndly. Their Carbon is nearly all derived from cather acid. 3rdly. Their Hydrogen is obtained principally from water but probably in part from aumonia. 4thly. Their Nitrogal principally derived from aumonia, and partly from nitric acid state. A portion of all these substances is obtained by plants from the remains of other vegetable which have existed before the Some of the reasons why these views of the supply of food to getation, should be adopted, as well as some of their practicals.

Woody fibre is best known in the form of wood of trees, but the stems,
 yous and leaves, of nearly all plants, in great part consist of it.

A heautiful, and, in some respects, original, view of this ject, is given in the Letters of Agricola, No. 32.

sinces for which they are cultivated.

BONE SPAVIN.

A Bone Spavin is a hard swelling on the inside of the Hock, and is so called, not only because it resembles a Bone in hardness. but to distinguish it from a Blood Spavin, which is soft, and is also sated in the Hock.

But, in order to understand the true nature of this malady, it will be necessary to remember what has already been taken notice of in the anatomical part, viz. that the two ranges of small hones is the upper part of the Instep and lower part of the Hock, where the Spavin is seated, are united and received into one another, t and are placed in such a manner as to prevent a dislocation of that Joint, which without them would easily happen, and litewise to facilitate and give a spring to the motion of the Hock In young Horses, and almost all other young quadrupeds, they are in a great degree cartilaginous, moist, and phable, which is presenty to quick and vigorous action, to which all young Horses me disposed by nature. In old Horses these little hones grow more hard and solid, and are joined almost in one, and in a manper make a part of the Instep and its Apiphisis, insomuch that in some it is difficult to separate them assunder, which is the cause thy old Horses always grow stiff in their joints. The cement be which they are united, is a mucilage not unlike glue, which condenses and fastens them very fast together. When this happons to be redundant, and overflow, from whatever cause or accident it proceeds, it then forms a swelling under the Skin and Membranes of the Hock; and sometimes the broad Ligament that covers these small Bones being soaked with too much moisture, protrudes and rises into a swelling, which soon condenses and forms a Tumor, which at first is no other than a hardened glue, but by length of time grows like the callus of a fractured Bone, membling a piece of flint, without any visible Pores or Intersices, except the Foramina or little Holes for the passage of Nerves and Blood vessels, such as are to be found in all other Bones that compose the Skeleton.

From hence it will appear manifest, that a Bone Spavin taken is beginning and growth from the matter that nourishes the Bones ed Ligaments of the Hock, and generally happens to young llorses that have been used too roughly before they are arrived to their full strength, forcing them to leaps that are too high, or puting them too much upon their Haunches, which relaxes the Ligasents and Membranes, and enfeebles all the junctures of the flock. Sometimes Spavins are thought to proceed from natural weakness, ad so to be hereditary, some Horses being more subject to such zaladies than others, and put out Spavins even where there has been no violence or ill-usage; sometimes Spavins put out after a whatever else may cause too great a derivation of humidity and moisture upon the part, as lying too long at grass, or feeding to Afficient exercise, or on the contrary too violent or ill-timed exerkie. All these things may produce Spavins, Splents, and other excrescences upon the Bones or Joints.

A Spavin that begins on the lower part of the Hock, is not so tangerous as that which puts out higher between the two round Processes of the Leg-bone; and a Spavin near the edge is not so bud as that which is more inward towards the middle, as it does not much affect the bending of the Hock. It may also be oberred, that a Spavin that comes by any common accident, as a lick or a blow, is at first no true Spavin, but a contusion; and herefore is not so dangerous as when it proceeds from a natural puse; neither are Spavins that put out on Colts and young liorses so bad as those that happen to Horses in their full strength ad maturity; and in very old Horses they are seldom curable. ring the effect either of some violent distortion of the small Bones bore mentioned, or of some very ill habit of the Body.

The usual method of curing a Bone-Spavin is by blisters and

Bestions, have already been mentioned. They will however more case, coolers and repellers are only proper, viz a cold charge felly appear, after we have examined the Structure of Plants, and | bound round the part, and renewed several times a day, with the other me had above described in bruises and contusions; but if the the means by which they convert their food into the various sub-Spavins that happen to Colts and young Horses, are generally external and superficial, and may be cured with milder applications than what are commonly made use of for their removal, and with less danger of breeding eillesties in the Joints; for it is better to wear out these maladies by degrees, than to strive to conquer them all at once.

The blisters or causties commonly used to take off Sparing, are made with Euphorbium, Arsenick, or corrosive Sublumate, in the following manner, vir. Hog . Lard and Trun Oil, of each an ounce; Berg wax, two ounces, Homes and Neive Outment, of each two ounces these being melted, and the mixture almost cold. they add half an ounce of So limate Corrosive, and two drams of Euphorbium in fine powder. A sufficient quantity of this spread on the part pretty thick, sometimes succeeds when it digests I have seen many recipes of this kind that have have and rune been tried with various success, but for the most part they leave a continual baldness, and often a remaining stillness, which can never be removed. Some make their blistering outments after this manner, viz. Ointment or Oil of Bays, and Nerve-Ointment, of e ch an ounce; Spanish Flies in powder, about a dram; Sublimate, two drams. Others use Euphorbium alone without the Sublimate; but that is not so well, for the Euphorbium is of a caustic nature, but seldom enters further than to harden into a seab or thick sourf, without coming to digestion, and therefore often causes much pain, heat, and anguish; and by that means derives a flux of humours upon the Hock, so as even to affect the nervous parts, which ought to be avoided. Some mix butter of Antimony with their blisters, others only clip off the hair, rub the Spavin till it is almost raw, and then lay on a plaister with Pitch and Sublimate, or Arsenick, and let it he on till it fall off, when it brings along with it a thick slough, but seldon with any Many of these things, and such like, I have known gord effect tried to take off' Spavins, but never found them succeed so well as the following, only that it must be often repeated, and so requires a good deal of time before the cure is complete and perfect.

Take Nerve Ointment and Ointment of Marshmallows, of coch two ounces; Qaick ilver, an ounce, the Quicksilver must be rubbed in a mortar, with an ounce or an ounce and a half of Venico Turpentine, till it is of a lead colour and that none of the globules appear. Then tex it with the other, and when these are well in corporated, add a a drain and a pair of Cantharides, made into a fine powder; one Iram of Solimate, and two crains of Oil of

The Cantharides must be fresh, not of a yellow or brown colour, nor of a fætid stinking smell; for if they be corrupted and rotten, they lose their efficacy. The hair is to be cut as close as possible, and then the Ointment or Retoire applied pretty thick over the part; this should be done in the morning, and the Horse kept akkness, especially in distempers that affect the Limbs; and some- tied up all day, without any litter under him till night, only so imes Spavins proceed from blows and other accidents ill-managed, much as will encourage him to stale, if it be his custom to stale upon his litter; at night he may be untied, that he may he down as usual, for by that time the blister will begin to take effect; and such with hot ment, or any other suggy moist diet; want of a plaister of pitch may be laid over it, or any other sticking plaister bound on gently with a piece of broad tape or list.

After the blister has done running, and the scabs begin to dry and peel off, it may be applied a second time in the some manner as before. The second application generally takes much greater effect than the first, and sometimes in Colts and young Horses makes a perfect cure; but when the Spavin has been of some standing, it will require to be renewed, perhaps five or six times, only that after the second application, a greater distance of time must be allowed, otherwise it might leave a scar or cause a baldness; and to avoid this, and to prevent a remaining stiffness, I usually cause a fresh application to be made once in a fortnight or in three weeks, which always has a good effect, especially upon young Horses that abound much more with moisture about their joints than those that are old. I have continued blistering in this manner six or seven times, without the least blemish, and have seldom been disappointed of success The Horses have constantly had their exercise in a moderate degree between whiles, and somefing, without any regard to the situation or cause from whence it times mild purging physic, and diurctics at proper intervals, and receds. If a fullness on the fore part of the Hock comes upon afterwards Guiacum builed and mixed with their water, the betbud riding, or any other violence, threatning a Spavin; in that ter to promote perspiration, and to dry up superfluous humidity.

which I conceive to be a help in all cases proceeding from viscid inices and relaxed habits. And in such cases I likewise keep judament. them from the use of moist diet, except when they take purges, | and then I allow them but small feeds of socided bran, their comfrom diet being only only with the driest and sweetest hay that can for the most part proves incurable, especially if the small hones be be got; for a moist diet, long continued, relaxes the whole habit, and must therefore be improper, if not prejudicial in all such cases.

But the Spavins that put out on older or full-aged Horses are ant to be more obstinate, being the effect of wone ill habit of body, but chiefly of Hurts and Strains, whereby the small Bones of the Hock are jarred and loosened; for this sort is always scated more inward than that above described, which rises more superficial and flat; and therefore, when the Spavin puts out towards the hollow and rises upwards, it proves obstinate, and hard to cure; and if it run inwards among the sinuosities of the joint, it is for the most part incurable, because it lies then very much out of the reach of applications In an out ward superficial Spavin, the Horse only goes stiff at first, and the Spavin soon appears plain and visible to the eye : but in the other, a Horse sometimes goes lame a considetable time before the Spavin shows itself, and so passes only for humors. There known Horses in these circumstances purged and oiled both in the flock and Stille, till a Spavin has been discovered deeply situated, and extremely hard.

This case is both difficult and uncertain, not only because of its aituation among the sinnosities of the joint, but because it is, for the most part, condensed to an obstinate hardness and insensibility, before it grows so much outward as to be discovered. The usual way in such cases is to fire directly, or to use the strongest kind of enustic blisters, and sometimes to fire and lay the blister immediately over the part; but this method soldom succeds so far as not to leave both a blemish and a continual stiffness behind it, though indeed it may put a stop to any further growth of the Spavin and the Horse, not withstanding the stiffness, may be useful, in several businesses. I should therefore first of all choice to try a more gentle method, because Horses are often worse, after the use of foreible means to remove Spavins than they were before, which breeds such a disposition in the part, as source leaves room for any further trial, it being difficult to keep a just medium where such powerful applications are made; for though the Bones, and all hony excrescences are of themselves insensible, and without pain, except when they turn carious, yet whoever considers the many tendinous and nervous substances about the Joints, will easily be convinced, that pain and anguish must be unavoidable when these are touched with fiery and caustic applications; and we see daily instances how easily these sensible parts are hurt, even from the most trilling accidents. And therefore, if the owner can be persuaded to allow sufficient time, the best and safest way is to make trial of some mild caustic or blister, such as the blistering ointment above inserted. The first application will probably prevent the increase of the Spavin, and the continuing it, according to the prescribed method, will sometimes cause a dissolution of the hardness, and so wear it out insensibly by degrees. Of this I have had instances in my own practice; the blistering at times was continued several months; the Horses were also made use of in the intervals to all common business, except hunting or other very the lowest places, through these side banks, for the water to an laborious exercise; so that they were not altogether a charge and off from the top of the ground. The raisings of the banks on each burden to the owners. A very fine Horse belonging to an officer side makes the ditch about 8 feet on the top, with slope bank, a of distinction in the army, was cured of a large Spavin by this method, even after he had been fired, and the part rendered extremely hard and callous for the space of two years or upwards, drain the land effectually. I have raised a very good crop of co and when he recovered his lameness, I caused him to be fired again, very gently, all over the Hock, but in such a manner as to leave little or no scar or disfigurement. I took this method to secure him, being a managed Horse, and having a natural disposition to go upon his Haunches, which tries the Hocks and Pasterns more than any other action.

However, some Spavins lie so deep, and run so far into the hollow of the Joint, that no applications can reach them, so as to make a perfect cure, and sometimes Horses have been rendered altogether useless by the attempts that have been made to remove them A charge or caustic ointment, with Sublimate or Arsenic, i is the most likely to succeed in this case, if it be used with proper cautions; because these things will act forcibly, so as to enter deep, and make a very large discharge, and by that means destroy I have made nearly 500 rods of these ditches; they cost strend a great part of the substance, and perhaps cause the remainder to 6 shillings per rod; they are the cheapest fence I can make, a son dissolve and run off. I have known some bold ignorant fellows by cleaning out the ditches, you can keep the fence in good repair

succeed in such cases, though more by accident than from a sound

But when an old Horse happens to put out a Spavin, it is commonly the effect of some violent wrench or strain of the Hock, and any ways jarred or displaced, which sometimes happens; and when it is so, the swelling generally appears on the moune and fore-part of the Hock, and not towards the side of the Hock, as almost all Spavins do. The Horse is always extremely stiff, and scarce able to move; but this is properly a luxation, and not a Spavin, as has been observed already. And therefore, if any thing be done to remedy this malady, it must be to force the Bone into its place; to fill up the fore-ourt of the Hock with tow, and the cavities on each side; and all the other cavities and vacant spaces should likewise be filled with the same, applying a piece of pasts. board soaked in Vinegar on the inside over the distortion, bunding the whole with a roller or a piece of broad soft list, and the Horn should not be put upon exercise for a considerable time. But when Horses meet with such unlucky accidents, they are selden fit for any thing afterwards but to draw in some light easy carriage. A true Spavin in an old Horse proves no less difficult; and a such cases, firing all round the Hock, and afterwards turning then out to grace, is the most likely to succeed, so far at least as to be them for some sort of business; though the stiffness of the Hock will be but little abated, even if the Spavin be removed, stillness and bending of the points being an infirmity to which all old Hone are more or less subject, even where there is no manifest malaus of disease .- Gibbon on Horses.

From the New York Central Farmer. ON DITCHING.

As I agreed to give you a description of my mode of ditching. I now redeem my pledge. About twenty years ago, I purchased my farm in Whitesboro, and on this farm was about 130 acres of the Mohawk flats, and about 60 acres of that was covered was blackash timber, alders and bogs, and the water stood on it nearly the whole year; the 60 acres were not worth as much for any us then as Sacres are now Not being acquainted with farming much I did not know how to commence right, but my first object was to improve my low grounds. I commenced by making small ditches which would soon fill up. I then made a bank or did with a small ditch on each side, but that did not altogether answer the purpose intended for a ditch and fence. years ago I commenced in a different way, which seemed to an awer all the purposes intended for, that is, to drain the land effectually, and at the same time make a good fence. I make m ditches six feet wide at the surface of the ground, and three and half or four feet deep, as the land may require, with a slope so a to bring it about one foot on the bottom, and take the turf for the top of the ditch and lay it up on each side with the same sign as the ditch, about one and a half feet high, leaving a lip of about four or five inches on each side of the ditch; or placing the road of turf that distance back from the ditch, to prevent its caving it by the frost till the bank becomes solid. I make small sluces i off from the top of the ground. The raisings of the banks on each over it. I lay out my lots from 20 to 24 rods wide; three ditches drain the land effectively. on some of the lowest of this land this year, and it has been a ver wet season.

I will now say a few words about my mode of cultivating the low grounds; they are most profitable for meadow—I therefor seed them down as soon as they are subdued by ploughing, or the ground is smooth, they may be brought into a good quality a grass by sowing on seed and harrowing. I find it very profull to give these lands a thin dressing with manure; it improves to much the quality and quantity. Managed in this way, I g three or four tons of hay from each acre; I have taken four to from 140 rods of ground, well dried. The best time to put on " nure is soon after mowing; it will not need it more than once four or five years.

From the Massachusetta Ploughman.

TILLING CORN AND POTATOES.

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Farmers are late this year in performing the first ploughing and being the cold first and then the wet weather contribute to

It is of no use to plough or hoe when the ground is muddy; but it is certain that stirring the surface when it is rather wet hassos the process of drying-and that stirring the earth when it is my dry contributes to render it more moist.

In tilling corn or potatoes, or indeed any other vegetable, we ater promote their growth by merely hilling up or hurying the mote deeper than nature has taught them to run; but it is often more casy to kill the weeds in the hill by burying them than by atting them up , and most of the weeds buried are converted at see to mainure, as any one may see if he will uncover a mess of reds after they have been buried two or three days.

ON THE USE OF THE CULTIVATOR.

This instrument is quite handy in stirring the surface of the nuth when green sward is tilled, since it does not tear up the furme as a plough will. But on old ground, without sward, the ellorse-plough is a much better instrument than the Cultivator, isse it renders the soil lighter and tears up the weeds more effecmilly and buries more than that or any species of harrow

Many farmers fancy it very injudicious to cut or break any of be loots of corn or potatoes. They therefore run the plough or ne harrow midway between the rows and leave the hoes to perlam more than half the labor. Such farmers are governed more by theory than by experience; for any one that will make the bul will learn that stirring the earth deep close to the young plant nd entting off millions of its little roots will not check its growth. It will only render the soil more light and more easy to be penewite by the little prongs that shoot out almost immediately after bet they have been cut off by the plough or hoe.

If a plough is used therefore, it should run close as possible to beyoung corn and potatoes, on the first tilling, and turn a furrow from the plant. At the second ploughing this may be turned back igin so as to leave the surface nearly level-not even; for we rould leave the surface rather rough than even .- The following nia will then partially move earth in the absence of the plough ject ad hoc. na!

IMPROVEMENTS IN BLACKSMITHING.

Sawing heated iron or steel, is not known or thought of by licksmiths; and when several forks or branches are to be formed from one stock, even if the bran-ies are required to remain evenfully, nearly in contact and parallel to each other, the usual meand is to split the end of the iron with an awkward cold chisel, dereby deforming the edges of each branch; on which account, he branches must be bent assunder for the purpose of hammering, quaring and shaping the edges of each; after which they are wought together as well as may be, usually retaining a roughness form, if not a deficiency of size and strength, near the juncture of the branches. Instead of this tedious process, the iron when ested may be put into a vise, and the the end may be readily slit 7th a suitable saw, which would save much labor of hammering and filing. A saw for this purpose, should be made thicker at the age than at the back, and with uniform teeeth about one twefth dan inch apart. The saw, when used, must be often dipped in vater, to prevent its becoming too much heated. There is also a sthod of cutting or sawing hardened steel, which is not so geneally known as it should be. A circular piece of common thin on plate, or sheet iron, being adjusted in a lathe, or by other beans put into a violent rotary motion, it will readily cut off a file, eutting tool, or a tempered steel spring, without drawing or re-acing the temper. There is much mystery in the wonderful eftt of this buz, and its cutting property is attributed to electricity. tanswers a very convenient purpose, however, when the shape and Substitute ron the Rollen. — Messes. Editors—One of our of articles are required to be altered, without affecting their farmers. Mr John A Merselis, uses the following article, instead ting left so hard that they cannot he readily filed by a common le. Connected with the subject of "inysterious effects," it may on roll-brimstone.

when some piece of iron work is required to be severed, but which, as is sometimes the case, is so constructed and situated that no ordinary chisel or cutting tool can be brought to apply. Hole may be instantly perforated through bars or plates of heated iron' by the application of a pointed piece of brimstone, and that instantaneously. This phonomenon is cur, us, although it seldom affords much practical utility .- Am. Farmer.

METHOD OF ASCERTAINING THE WEIGHT OF CATTLE WHILE LIVING. - This is of the utmost utility for all ". ose who are not experienced judges by the eye, and by the following directions the weight can be ascertained within a mere trifle. Take a string, put it round the beast, standing square, just behind the shoulder blade; measure on a foot rule the feet and taches the animal is in circumference; this is called the girth; then with the tring smeasure from the bone of the tail which plumbs the line with the hinder part of the buttock; direct the line along the back to the fore part of the shoulder blade; take the dimensions on the foot rule as before; which is the length, and work the figures in the following manner: girth of bullock, six feet four inches; length, five feet three inches, which multiplied by twenty three, (the number of pounds allowed to each superficial foot of all cattle measuring less than seven and more than five feet in girth,) makes 713 lbs. 1 and allowing 14 lbs. to the stone, is 50 stone, 13 lbs Where the animal measures less than nine and more than seven feet in girth. 31 is the number of pounds to each superficial feet. Again, supposing a pig or any more small beast should measure two feet in girth, and two feet along the back, which multiplied together, makes four square feet; that multiplied by eleven, (the number of pounds allowed for each square foot of cattle measuring less than three feet girth,) makes 44 lbs, which divided by 14 to bring it to stones, is three stones two pounds. Again, suppose a calf, sheep, &c. should measure four feet six inches in girth, and three feet nine inches in length, which multiplied together make 161 square feet: multiplied by 16 (the number of pounds allowed to cattle measuring iess than five feet and more than three feet in girth,) makes 204 lbs, which divided by 14 to bring it into stones, is 18 stone 12 lbs. The dimensions of the girth and length of black cattle. sheep, calves, or hogs, may be as exactly taken this way, as is at all necessary for any computation or valuation of stock, and will answer exactly to the four quarters, sinking the offal, and which every man who can get over a list of chalk may easily perform. A deduction must be made for a half-fatted beast; of one stone for twenty from that of a fat one; and for a cow that has had calves, one stone must be allowed, and another for not being properly fat. -Cattle Keeper's Guide.

THE HORSE RAKE .- A very large proportion of farms within thirty miles of Boston have acres of mowing land on which a horse-rake would operate to advantage and save much labour Young men have not you enterprise enough to give such a tool a trial? We have used one of these for many a day and can assure you it requires but little time to learn how to handle them well.

We have procured a number to be made in the most simple form and we will sell them at the factory cost, adding only the charge for bringing them into this city.

The price will not be far above four dollars each, and this is much less than any one can be made for singly, in any part of the

With a little practice any lad of eighteen will rake an acre in in a half hour; and he will gain enough in a single day to pay for

The rakes may be seen at the warehouse of Ruggles, Nourse & Mason, in Quincy Hall. They are for sale also at the residence of the editor of this paper, at Framingham .- Mussucusetts Plough-

toper. It furnishes a convenient method of cutting teeth to of a roller, with good effect. He takes a slab, or outside cut from lage was, but is objectionable on account of the newly cut surface (a log, two or three inches thick, nine inches wide, and about seven feet long; a rope is fustened in each end, and then by means of a clevis, he fastens his team to the middle of the rope. If the driver stated that a bar of iron almost any size, may be instantly is a heavy person; he uses the flat side down next the ground, if valdered while hot, by the simple application of a piece of com-ho roll-brimstone. A knowledge of this fact will be useful, the round side down: going over the field several simes, until the ground is sufficiently pulverised, the diever attaining on it, to keep it in close contact with the ground. By rubbing over the ground, it pulverises it thoroughly. The past season I saw two of his fields, one planted with earn, on our Mohank flats, which looked like a bed in a garden, the coast of corn could be seen arrows the field, when only an look of two high. The other was upland, clay and slate gravel, sown with ours, which was equally am off. I believe when he uses it, he does not previously harrow. He invented it to over a arrow fat peas, which, by har rowing, he was unable to cover. He even uses it to cover has postators after planting them. — Consepandent of the Albanay (N. P.) Califerior.

EXTRACTS.

FATTERING SHEEF.—An experiment was made at Shrewsbury in fattening three sheep on peas, allowing them at the same time to run in pasture. They gained 39lb, in 21 days, an average of nearly 10oz, each per day, which we think extraordinary.

SULTRATE OF AMMOVIA - Is much used now as a topdressing on grass, wheat, and other grain.

GREAT WEIGHT OF TWEN STEERS - A pair of these were killed by Mr. Dawson, Rutland, at two years and five months old, which weighed 1,788 lb.

LIME-WATER TO KILL WORMS.—To six quarts of water, add half a pound of caustic lime, and after letting it stand a few minutes, commence watering the ground infested by worms, and they will soon be seen rising to the surface writhing about and will die in a few minutes, especially if a little more of the limewater is then sprinkled on them.

The number of eattle in Great Britain and Ireland, is estimated at 7,000,000, that of sheep 12,000,000, the total value of which at present prices there is £110,000,000.

Additional Christistar — Dr. Filley is at work upon a new treatise on agricultural Chemistry for practical purposes, including the best methods of feeding stock and fattening cattle. He intimates that this work will be unneumbered by scientific terms, but how that can be, and clearly express his ideas, we are at a total loss to divine.

RECIFE FOR THE HOVEN IN CATTIE.—The Hadleigh Farmers' Club recomends the following recipe for blown or hoven cattle.

1 Ib. glauber salts, \$\frac{1}{2}\text{lb}\$ of treacle, and 1 oz. of ginger, mixed with one pint and a half of warm water. Powerful stimulants, such as ammonia, are also recommended.

Siture Stock.—After discussing the management of sheep at the Framingham Farmers' Club, it was resolved that they should have free access to either took or sommon sait—that nothing is preferable to common hurdles for folding them in fields—that pasturing old clover leys with them, destroys many of the slugs and wire worms, and that their feeding the young wheat in the spring is beneficial.

Scouns IN SHEET. — In case of their being thus attacked a small dose of castor oil should be given to remove any offending matter from the bowels, after which four grains of opium and loz. of chalk, and then put them upon dry food.

In the "Gardener's Magazine" for February, we find that charcoal as a manure, is coming into pretty general use. It proves very beneficial, wherever applied.

Pomerania Cassaur is highly spoken of as being the best autumnal kind.

MAY'S RED VICTORIA CLARANT. — The berties of this magnificent currant are said to measure not unfrequently 1½ inches in length. The fruit is of a beautiful scale, and the flavour excellent. The foliage is thicker than the common red currant, and hangs on later, and of course assists in prolonging the fruit.

Tan as Manure. - This is found to answer an excellent purpose in improving the sheep pasture on the downs.

The brine in which cucumbers have been preserved, is said to be fatally poisonous to cattle and hogs. One of our citizens a few weeks back lost a cow from her having eaten a great quantity of pickles which had been thrown out in an exposed situation.

Blaikie's Portable Threshing Machine,

Worked with two, three, or four horses at pleasure.

Community throughout Nova Scatia, and the adjoining Community throughout Nova Scatia, and the adjoining Community throughout Nova Scatia, and the adjoining Community, that he is prepared to receive orders for making Threshold indictions, either portable or stationary. He believes that he is justified in stating that his machines are equal in speed, if and superior to any now in use in the Colonies, or in the United States With two horses, his machine will thresh 25 bushels of wheat periour, and a fourth more for every additional horse, when the grist is in fair working condition. With two horses it will thresh 45 bushels of oats per hour, and a fourth more for every additional horse. The horses move in a circle of 25 feet in diameter, at the rate of 23 to 3 miles per hour, and can work during the full significant trigue. The portable machines can be removed free one barn to another with ease,—are easily erected and put in operation, and are rarely subject to get out of order. From the low price at which they are made, and the rapid sale they have alresdy received, wherever they have been tried, he has reason to belief that they only require to be known to come into extensive use.

Letiers addressed post paid or free) to the manufacturer, or to the editor of the Mechanic & Farmer, will receive every attention THOMAS BLAIKIE.

Green Hill, West River, February 1.

CERTIFICATES.

This is to certify that in December, 1841, I purchased one of Mr. Thomas Blaikie's Stationary Threshing Machines, and the since that time by the great saving of time and labour resulting from the use of it, it has amply repaid me for the use of it. I are therefore confidently recommend these machines to every farms who may require such an article; and will venture to assure say person that if they purchase one they will never have reason tongret it, as an unprofitable investment of capital.

GEORGE MCDONALDIC

West River, January, 1843.

Having worked for some time with one of Mr Blaikle's Thresing Machines, with moving horse power would recommend it is a superior article, and are certain, that "o farmer could make a better investment than to supply himself with a machine of this kid.

SAMUEL FRASER,
JOHN FRASER.

New Glasgow, Jaunary 3, 1843.

I have had Mesars Frasers' Threshing Machine, made by Mt Thomas Blaikle, threshing for me two or three days, and founds to surpass my expectations. It done the work well, and threshed clean; and I would recommend it as a very superior article, but as regards saving of labour and grain.

B. L. KIRKPATRICE.

ew Glasgow, January 3, 1943.

Having witnessed the Threshing Apparatus, made by Mt. The max Blaikie, in full operation, I give it as my decided oplaise that it for exceeds, in usefulness, and saving of labour, any this of a similar nature which has come under my observation, and that it is preferable to any other kind used in the Province.

JAHES CARHICHAEL

New Glasgow, January 3, 1843.

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