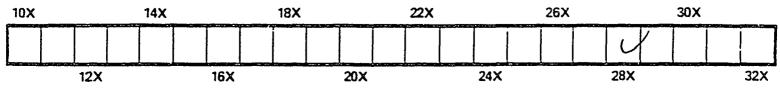
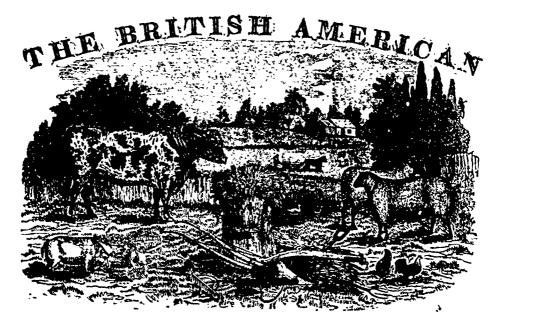
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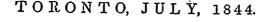
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ACENCULTURE NOT ONLY GIVES RICHES TO A NATION, BUT THE ONLY RICHES SHE CAN CALL HER OWN."-Dr. Johnson.

## VOL. III.



No. 7.

should be turned bottom side upwards, and put into complete order, for immeand then it will shortly be in a fit state diate use when wanted. As the Wheat for stacking or housing.

operations of hay-making; but whether most proper period for cutting wheat or not, we trust that great care will be the most clever Agricultural writers of surface of grass, whilst undergoing the as the berry has passed its milky srite. process of haymaking, to the action of Select out the most promising pertion

care during this and the following month. ichess, or any other noxious weed, they The weeds must be kept down, or else a should be separated from the standing failure of crop will ensue. Frequently grain, thereby securing a pure sample will pay for itself in the item of labour stirring the ground with a hoe has been for seed. That portion of the crop alone in the course of one season, if the found to be one of the surest preventatives intended for seed should not be harvested hay-harvest be at all extensive ; and the of their growth. Let it be remembered, until it be quite ripe. satisfaction of having the work executed in the cultivation of root crops, that one with efficiency and despatch should be acre, by careful management, may be your estates, cut them close to the an abundant inducement for every farmer made to produce as much as two acres surface of the ground, and apply a to provide himself with such tools as would do under the ordinary modes of small quantity of salt to each plant, would effectually secure that most desir- cultivation. A liberal top-dressing of gypsum, salt, lime, or ashes would pro- that is subjected to this treatment. its growth when just going out of flower. giving strength and vigour to the plant. root, ought not to be suffered to ripen To make a good sample of clover-hay, on experiment with any, or all of these it er seed. Crops containing such weed cut early in the morning, and when substances, though it be even on a small should be thoroughly cleaned of them, partially wilted in the swaith, it should scale, would test their value, as fortulisers not regarding the damage which may

harvest will have commenced by the 25th It is extremely difficult to law down instant, we would recommend the readrules which may be implicitly followed ers of this Journal to make a few exin every instance, and especially in the periments, in order to ascertain the the plan here recommended be adopted It has been asserted, by a number of observed in not exposing too great a the age, that it should be cut as soon. of your wheat crop for seed; and if Root crops require the most vigilant there should be any plants of cockle,

If you have any Canada thistles on which will totally annihilate every one Clover should be cut at that stage of inote a healthy growth of leaves, thereby Wild mustard, pigeon weed, or red be sustained by the crop during the

# TORONTO, JULY, 1814.

THE CULTIVATOR.

st to protect, every proprietor of lands to plattice, my inquirer into nature improve."-Dr. Johnson:

Agriculture is the great art which every government

MONTHLY CALENDAR.

The season for Haymaking is at the sun and dews. hand: see that your tools are in complete order. If you have not already prosured a horse hay-rake, loso no time in constructing or purchasing one. It able object.

be gathered, with a fork, into small on root crops. cocks; the following day those cocks | Harvest tools may now Le repaired, operation.

#### TO OUR SUBSCRIEERS.

The readers and friends of this Journal will, no doubt, bo surprised, when it was equally so, until we were convinced wo announce to them that the Editor has removed to his farm, in Whit church, a distance of twenty-six miles from this city. There can be no question but that this change will have a highly-favourable influence upon the character of the work, inasmuch as many of the suggestions and improvements recommended to others will be practised by its Editor and Compiler.

We wish it to be distinctly understood, that the British American Cultivator is now, beyond a doubt, established; and that it will continue to improve, both in metter and appearance, until it exceeds, in intrinsic excellence, any Magazine of a similar description published on this Continent. So far as the accomplishment of this object is concerned, no effort shall be spared, on the part of the Editor, to render this Journal worthy the patronage of an enlightened and liberal public; and the hope is confidently entertained that all those who appreciate the enterprize will extend their aid, and exert their influence with their neighbours and friends, to increase the circulation of this useful periodical.

In future, all orders and communications must be sent to the address of the Publisher, Mr. JOHN EASTWOOD, Junr., Toronto.

#### MARL.

the country, where lime would be most of this substance in a caustic state. A to the surface, by the operation of deep wisely distributed His blessings, that, following crops, and with permanent in many instances, in those sections of advantage in improving the texture of country where calcarious manures are the soil. most wanted, and the limestone-rock it to their fields.

As some of our readers may fancy soil by artificial means.

opportunity to inform them, that, to us, of the necessity of obtaining a knowledge of the science, as well as the practice of Agriculture. Upon inquiry and experi- be brought into very profitable use. ment, we found, that, in order to carry out farming operations successfully, it was absolutely necessary that lime, in some shape or other, should be mixed with vegetable matter. After considerable study and observation, we came to the conclusion, that, in a large proportion of cases, where lime was most wanted, it was abundantly intermixed with the subsoil, which lies directly below the surface mould. and only requires the operation of deep ploughing cayed fossil state, at the bottom of marto give as ample a dressing of lime to shy grounds, in the neighbourhood of the soil as could be given were the most expensive sorts used.

chemistry has been brought to bear upon Agriculture, with any degree of certainty or profit : but since the food necessary for maturing plants and vegetables has colour, which is most generally white. or been correctly ascertained, by men of science and deep research, the farming it may, its richness, in lime, will be most community would give evidence of their wisdom, by adopting such a method of farming operations as would secure to them large returns for the capital and ser chiefly consists in the calcareous skill employed.

contains any considerable amount of all fertilisers, that a score of instances carbonate of lime, we would recommend, have come under our own observatior, that, when the ploughing operations are where farmers have extensive beds upon being carried on, specimens of the subsoil should he dried, and reduced into a worth sufficient to value this kind of pro-But few of the Canadian farmers have powdered state, after which it should be perty at a farthing per acre more, than any correct knowledge of the benefits put into a state of solution with water, if no such substances were upon it; that would result, were they liberally to and if, upon the application of a small whereas, if only a single experiment had nse calcarious manures, as a dressing quantity of muriatic acid (or strong been made, upon either wheat or grass upon their land. In many sections of vinegar will answer nearly the same lands, it would have added one hundred purpose), it produces a state of effer-per cent, to the value of the property, in efficacious to the crops, the absence of vescence, or fermentation, it is a sure the eyes of every discriminating indivithe limestone-rock would prevent the use indication that the subsoil may be brought dual. bountiful Providence has, however, so ploughing, with favourable results to the passed through, and in which there has

It should, therefore, be a matter worthy most scarce, there are inexhaustible the closest attention of the intelligent mines or beds of carbonate of lime cultivator, to ascertain whether the pecudeposited, for the use of man, in a liar soil which he cultivates is based upon state that requires no further prepara- a stratum of calcarious earth, or whether tion or expense for the land further both soil and subsoil is deficient in this stance, which we call carbonate of lime, than the labour attendant upon leading essential substance. If both be deficient, was of any practical use, further than

fitable subject, we we ild embrace this tural purposes, is so great, that it is only under very favourable circumstances that its use could be recommended. There are, however, hundreds of cases within our knowledge where lime might

> So sanguine are we that great and normanent benefits will ultimately accruo to the Canadian farmers from the use of Marl alone, that no opportunity shall be lost, or trouble spared, in bringing the subject before the Agricultural community, in such a style as will, we trust, ensure their attention.

Marl is found in a variety of combinations, but that which may be brought into most general use is to be found in a desmall lakes and stagnant ponds of water, and in the bottoms of ash and cedar It is only within a few years past that swamps. The purest kinds have a soapylike appearance, and are very unctious to the feel; others appear like a mass of leached ashes, with the exception of the cream-coloured. Let its colour be what readily ascertained by applying the acids previously recommended; and it should be remembered, that its value as a fertiliparticles that it contains. So little va-To ascertain whether the subsoil lue has been placed upon this the best of their estates, and have not known its

In a part of the country which we lately been a failure in the wheat crops for the past few years, owing to the baneful influence of mildew or rust ; we discovered a bed of marl, covering an area of twenty acres; which to all appearance averaged a depth of fifteen feet : the owner of the property, as well as the surrounding neighbours, were not aware that the subit is obvious that it must be brought to the that of making a whitewash for plastered The expense walls, for which purpose it is in very exthis, above all others, a dry and any ro- of procuring kiln-burn tlime, for Agricul- tensive requisition. Upon analysis this

more extensive bed is seldom found in the minds of those in attendance. any country. If the farmer in the sursounding neighbourhood could be influenced to use it, as a dressing upon their land, at the rate of about 80 bushels per acre, it would increase, especially their of age. There were six Ploughmen in wheat, grass, and pea crops, to an extent the First Class, four in the Second Class, wheat, grass, and pea crops, to an extent the First Class, four in the Second Class, and five in the Third Class, —in all, fifequal to 100 per cent; and, in fact would prove an invaluable dressing upon the land for any description of crops. This substance, unlike manure, only requires to be added to the soil once in ten or twelve years. It is a sure preventative of rust, in asmuch as the lime it contains acts upon the silica in the soil, and dissolves it into small particles, so that the soapvessels of the plant can convey it to the stark, thereby forming a hard outer surface, which prevents the vessels from bursting. It also acts mechanically upon the soil, correcting any acidity it may contain, and changing the stiffest clays into comparatively light loams.

In the South-Eastern States, where this substance has been lately brought into extensive use, the farmers in that quarter set so high a value upon marls, that they pay from 30 to 40 cents per load, and draw it a distance of six or eight miles, and spread it upon their land at the rate of 100 bushels per acre-notwithstanding the high price which it costs them, and the expense which they are subject to tn many instances, in drawing it so great a distance ; still, through its use alone, has the land in the whole country been doubled in value within the past four years t and those who were anxious to dispose of their lands only a few years since, upon any terms, to emigrate to the Far-West, have become quite satisfied with their situation; and as a means of improving their circumstances, have resolved upon improving their lands through the liberal use of calcareous manures.

In the belief that similar efforts will produce similar effects here, we now, with much confidence, recommend the Canadian farmers to make an experiment with Marl.

For the Cultivator. FOURTH RIDING OF YORK AGRICULTURAL SOCIETY.

Whitchurch, June, 1844.

The Fourth Riding of York, Agricultural Society, held their Annual Ploughing Match on Saturday, the 15th inst., tioned. in a field of Mr. Garden Birnie's, neat Newmarket. The weather was very plei-sant, the attendance good, and the pro-skill they evinced in their work; some of

marl was found to contain about 80 per eccdings throughout of a nature calcula- them nearly equaling those in the older cent. of carbonate of lime, a purer, and ted to have a favourable impression on classes. Yours respectfully,

> The Ploughmen were divided into three Classes. The First Class open to all; the Second Class open to all under twenty-one years of age; and the Third Class open to all persons under seventeen years teen:

> About sixty parches were allotted to each Ploughman, which was required to be completed in three hours. The size of the furrow slice was nine inches wide, by four inches deep. After the ploughing was completed, the Judges Messrs. George Playter, David Jackson, and James Galloway, proceeded to examine the work, and awarded the prizes as follows, viz :-

#### FIRST CLASS:

1st Prize, £2 0 0 Francis Hood, King. 2nd Prize, 1 5 0 G. Pearson, Whitchurch 3rd Prize, 0 15 0 G. Davis, Whitchurch.

SECOND CLASS. 1st Prize, £2 0 0 J. Breckon, Gwillb<sup>i</sup>y E. 2nd Prize, 1 5 0 Clinger Willson, do. 3rd Prize, 0 15 0 P. Degear, Whitchurch,

#### THIRD CLASS.

1st Prize, £2 0 0 J. Hacking, Jr. White'h. 2nd Prize, 1 5 0 M. Cuny, Jr. Gwillb'y E. 3rd Prize, 0 15 0 W. Willson, Whitehurca.

Mr. John B. Lundy, of the Second Class, would probably have received the second prize for his Class, but, unfortufore the committee thought it would be establishing a dangerous precedent to award Mr. Lundy a prize, notwithstanding his illness.

When the Judres had finished their examination, the Ploughmen a number of the members of the Society, and several other gentlemen present repaired to Mr. Heweits's Hotel, Newmarket, and partook of a good and substantial dinner, such as farmers are partial to, and one that did much credit to our hostess.

After despatching dinner, in about as good a style as the ploughmen executed their work, each took up the line of march for home, apparently highly gratified with the whole proceedings of the day; and I trust, fully resolved to make still further progress in this most ancient, most useful, and most healthy employment-an employment which conduces, more than any other, to the welfare of our country. I would just state, that the Ploughing was, all of it, well executed ; bial for their economy and management. and was in the opinion of the Judges, seldom equalled, in the accuracy with with which the furrow slice was propor-

Joseph Hartman, Secretary.

From the Southern Platter,

#### BRILLIANT WHITEWASH.

Many have heard of the brilliant stucco whitewash on the cast of the President's house at Washington. The following is the tecipe for making it, With some additional improvements :-

"Tike halfs bushel of nice unslacked lime, slack it with boiling water, covering it during the process to keep in the steam. Strain the the process to keep in the steam. Strain the liquid through a fine sieve or strainer, and add to it a peck of clean salt, previously well dissolved in warm water; three pounds of ground rice, hould to a thin paste, and stirred in bo ling hot; nonce to a thin paste, and stirred in 60 ing hot; hulf a pound of powdered Spanish whiting, and a pound of clean glue, which has been previously dissolved by first soaking it well, and then hang-ing it over a slow fire; in a small keitle, within a large one filled with water. Add five gallons of hot water to the whole mixture : stir it well, and let it stand a few days covered from the dirt. It should be put on quite hot t for this purpose it can be kept in a k-stile on a portable furnace. It is said that one pint of this mixture will cover a square yard upon the outside of a house if pro-perly applied. Brushes more or less small may be used, according to the neathers of the job required. It answers as well as oil paint for wood, brick, or stone, and is cheaper. It retains its brilliancy for many years.

"There is nothing of the kind that will compare with it, either for inside or outside walls. Class, would probably have received the second prize for his Class, but, unfortu-nately, he was taken ill when he had nearly finished his lot, and was obliged to leave the field: his work, as far as it was done, was second in the Class, and Coloring matter may be put in, and made of any was done, was second in the Class, and well merited a prize; but the regulations required the work to be completed, there-fore the committee the second to be completed. together produce a reduish stone color. Yellow ochre stirred in makes a yellow wash : but chrome goes further, and makes a color gener-ally esteemed prottier. In all these cases, the darkness of the shade will of course be determined by the quantity of coloring matter used. It is difficult to make a rule, because tastes are very different ; it would be best to try experiments on a shingle, and let it dry. I have been told that green must not be mixed with lime. The lime destroys the color, and the color has an effect on the whitewash, which makes it crack and peel.

> "When walls have been badly smoked, and you wish to have them a clean while, it is well to squeeze indigo plentifully through a bag into the water you use, before it is stirred in the whole mixture.

> "If a larger quantity than five gallons is wanted the same proportions should be observed."

This is the third or fourth time that, by particular request, we have published the above recipe, which we have no doubt is an excellent one. But after all, we believe that white lead, sepecially at the low price at which it can be purchased at present, is the best and most eronomical pigment that can be used. At any rate, this is the expe-rience of our Northern friends, who are prover-They paint overy thing, except the ladies' checks; and that nature does for them in a manner to surpass even the purity of their beautiful cottages.

We intend to furnish directions for the mix-

augure and a second

#### MANURES. A FIRST ESSAY, BY S. L. DANA.

## SECTION FIRST.

#### Clearing and Breaking up, and Making Com post.

There is one thing settled in farming, stable anure never fails. It always talls. There are manure never fails no two ways about it. There is here neither theory, nor speculation, nor doubt, nor missiving "Muck it well, master, and it will come right, is an old proverb. It is considered a fact so well erablished, that nobody thinks of disparing it There is advantage in asking why barreyard manure never fails. The answer is easy. It conains all that plants need for their growth. wetknow then what plants contain, we can easily tell what is in manure. The whole doctrine of manuros, then, falls into two plain principles, on which hang all the law and the "profits" of agriculture :-

1. Pants contain and need certain substances

which are essential to their growth. 2 Manure contains all those substances, which plants want.

If then, we find out what it is which manure If, then, we find out what it is which instant contains, that makes plants grow, we must find out what a grows plant contains. This cannot be done without some little a very latte know-ledge of chemistry. Do not he startied, reader, I suppose that you may know nothing of chemis-try, no, not even its terms. As a very sensible man, who wrote letters on Bitany to a young lady, said to encourage his pupil, it was possible to be a very good Botanist without knowing one plant by name, so is it possible to become a good agrizultural chemist, without knowing lucle more toan the chemical names of a very few substances You know nothing of chemistry it may be, and as little of law; yet you will go to law, and learn some of its terms by a dear bought experience The law terms are harder to learn than the che mical terms. Now I fear that some persons, who have followed me thus far will shut up the book. It is, say they, all stuff, book-farming, stand beyond us. If one may not understand what manure is without this learning, we may as well begin where our fathers ended, and that was where our forefathers began ages ago. By a little law, howover, picked up as a juryman, or witness, selectman, town clerk, justice of the peace, yea, per-haps, hearing an indictment read, men come to understand what a lawyor means when he talks. So too, by a little chemical talk, a man may learn what a chemist means when he talks of oxygen, hydrogen, nitrogen, chlori , andcarbon; potash, soda, lime, (ah, these are old friends, the very name makes us feel at home again.) alumina. magnesia, iron, manganese, and silex, sulphur, and phosphorus. Here is a long list. Long as it is, perhaps it will be thought worth learning. whenyou are told, that these are the names of all the substances found in plants, every substance which they want. Out of these is made every plant. Every part of every plant, from the hys-sop on the wall to the mountain cednr, contains some or all of these. Be not disheartened. Look over, read the list again carefully ; see how many are old names of things which you know. Of the fifteen you know nearly one half by name and by natures. These are potash, soda, lime, magnesis, iron, sulpher. Perhaps you will add, that you know cathen is coal, or rather coal carben. You have heard from some travelling iccurrer at your own Lyceum, that oxygen and hydrogen togother warm water. That oxygen and nitrogen form the air we breath; that nitrogen and bydrogen form ammonia, or sal volatile, which gives the sharp smell to the smelling bocile. Besides the thing hes been said so sten that you must have heard ft, that chlorins, the substance which bleaches in Sleashing saits, unked to soda, makes common sals or if Chlorine is united to ammonia, sal ammoniasis formed. Now by changes and combiastions among these fifteen things, nature makes every thing we find in plants. Many of these are every uning we make plants. mony of these at invisible as is the sir. The substance called chlorine, perhaps you have never seen, but if you ever smelt it you will never forget it. It is often smelt is a piece of bleached cotton, when opened in the shops. It gives the smell to bleaching pow-

pear meroly a faint yellowish green air. It is allpowerful on vegetation. As it forms a part of common sait, say helf of its weight, we may dismiss the further consideration of it, by saying, that in some shape or other, chlorine is universally diffused in soil and plants,

The list above may be divided as follows :-First, the uny or volatile, Secondly, the earlies and metals : Thirdly, the alkalies ; Fourthly, the inflammables - Oaly the third and fourth disist ous require to be explained or defined. The solutioned called potenti and soils are termed at halies. They are said to have alkaline properties Fouchyour tonene with a bit of quicklime, it has a hot, burning, butter taste. These are called al holine properties. Besides these they have the power of combining with and taking the sour out of all soda liquids or acid that is, the acid and the alkali n-utral zo each other. This word alkali is of Arabic origin; its very name shows one of the properties. "Kali," is the Arabic word for hitproperties, " Kali," is the Arabic word for bit-ter, and "al." is like our word super, we say face and superfine ; to kalt is bitter; alkalt, superlauve ly hitter, or truly alkali means, the dregs of blt-terness I wistt, reader, for your own sake, as well as my own, that you should fix in your mind what I said about alkali and alkaline properties. Alkali is a general term. It includes all those ubstances which have an action like the ley of wood ashes, which you use for soap-making. this ley is houted down dry, you know it forms potash Nov. lima fresh slacked, has the alkahas properties of potash, but weaker, and so has the calcined imagnesia of the shops, but in less degree than limo Here we have two substances, earthy in their look, baving alkaline properties They are called, therefore alkaline carths But what we understand chiefly by the term alkalies, means poursh, soda, and ammonia. Potash is the athali of land plants; sodu is the alkali of sea plants; and ummonia is the alkali of animal sub-stances. Potash and suda are fixed, that is, not easily raised in vapor by fire. Ammonia always exists as vapor unless fixed by something else Hence we have a distinction among alkalies which is easily romembered. This distinction is founded on the source from which they are procured, and upon their nature when heated. Potnah is vege table alkali, derived from land plants; soda is marine alkali derived from sea plants ; ammonia is usimal alkali, derived from animal substances Poresh and soda are fixed alkalies ; ammonia is a volatile alkali Potash makes soft soap, with grease, and soda forms hard shap. Ammonia forms neither hard nor soft ; it makes, with oil, a kind of comment used to rab a soar throat with, under the name of volatile linement. But though there be these three alkalics, and two alkaline earths. I want to hy in your mind, reader, that they all have common properties, called alkaline, and which will enable you to understand their action, without more aid about their chemistry. The inflammables, or our fourth addition, are sulpher and phosphorus; both used in making friction matches. The phosphorus first takes fire in rubbing, and this sets the sulphur burning Now the smoke arising from these is only the sulphur and phosphorus united to the vital part of the common air. This compound of vital air or oxygen, as it is called, and inflatamables, forms acids, called sulphurie and phosphorie acids. So if you burn coal, or carbon, it is well known you form fixed air, or carbonic acid. This is, by burning, the coal or carbon unites with the oxygen or vital part of common air, which arises from burning charcoal, has all the properties of an acid. And now let us see what these properties are. All acids unite or combine with the alkalies, alkine earths, and the metals. When acids and alkalies do thns unite, they each loss their distinguishing preper-ties. They form a new substance, called a salt It is very important you should fix in your mind this definition of a sait. You are to confine your idea of a sait to common sait. That is a capital example of the whole class. It is sode, and alkali, united to an acid, or chlorine, or to speak in terms the most intelligible, to muriatic acid. So salpector is a suit. It is a Poiss united actu-so salpector is a suit. It is a Poissh united to acquatoris. Yet in salpetro you perceive neither poissh nor aquafortis. These have united, their characters are neutralized by each other. They have formed a neutral salt. each other. They have formed a neutral salt. Our list of substances found in plants is thus reder used to disinfert the sire, during cholera and Our list of substances found in plants is thus re- haro decaying. Decay gives equery the substances other diseases. If you should see it, it would applied duced from things which you did not know, to ducts, as performed in making charcoal. Decay

things which you do know ; and so wo have saved the trouble of learning more of their chemistry.

We have reduced the airy or volatile into water, formed of oxygen and carbon-as the sulphuric, formed of oxygen and phosphorus; and having thus got water at d acids, these units with all the aldaline, carthy and metallic balles, and form alt To give you new examples of those I may mention Gauber's salts and Epsom salts, Glauher's salt it tormed of side and support acid; white vitriol, of zine and sulphurie heid; plaster of paris, of lime and sulphurie acid, bonos, of lime and phosphorie acid; chalk and limestone, of time, and earbonic acid. These are all exampl - of salts that is an acid, or a substance acting the part of an acid, united to an aidali, metal, or earth.

We have thus gone over, in a very general way, enough of chemistry for any one man to understand the chemical nature of manure. You see, reade , hat with common attention bestowed for an even In s's reading one may learn these chemical come and their meaning. And now, having learned this first lesson, let us review the ground gone over, fix, once and for all, these first principles in our minds. Let us do this, by a practical application of the knowledge we have gained. Let us ana-lyze a plant. Do not be startled at the word. To analyze, means to separate a compound substance into the several substances which form it. This may be done by a very particular and minute, or by a more general division. It may be done for our present purpose, by separating the several substances of a plant into classes of compounds. You are already chemist enough to undertage this mode of analysis; in trath you have already done te again and again. For our purpose the ancients had a very good division of all matter lato four elements. You are reader though perhaps you do whenever you have burned a charcoal pit, what You separated the wood into air, did you? water, and earth.

You drove off by heat or fire the airy or vela-tile parts of the plant, you left its carbon, or coal; It you had burnt this, you would have beltashes. Now these ashes are earthy parts of plants. If you burn 8 green stied of wood, you drive off first its water and volatile parts, which form soot. You burn its carbon, and leave its ashes or salt. So that by simply burning, you reduce the sub-stance or elements of plant to water, carbon, salts. All plants then without exception, contain the several substances in our list above, as water, carbon, and salts. To apply this knowledge to manure, we must say a word on the form in which some of those, which we call the elements of plants exist in them. The sap is water; it holds dissolved in it some salts of the plant. This sap or juice, forms a pretty large proportion of the roots, say sevents into a precisity parts in one hub-dred, of potatoes, turnips, beets, &c. This may bocalled the water of vegetation. If we dry beet root, ar any other plant, we metely drive off this water of vegetation. Now what have we left? To go back to our process of analysis, let us char the dried root We drive off more water and vo-lattle parts. This water did not exist, as such, in the line arts. This water did not exist, as such, in the plant. It existed there as hydrogen and oxy-gengas. Now this word gats is a chemical term, and it means any substance in vavour, which cannot the substance in vavour, which cannot be condensed into a liquid or solid, at common temperatures. Different gasses may unito, and so be-come solids or liquids. Steam is not gas, for it is the vapor of water, and immediately returns to the state of water, below 212 degrees. Perfect steam is invisible, so are most gases. The air wo breath is composed of two gases, oxygen and nitrogen. We do not see them ; we cannot, by cooling or compression, make air take other shape than invisible air. This is the general property of gas, as distinguished from vapor or steam. Oxygen and Hydrogen, in plants exists in just the proportions te form water, but we do not know that they are We have compelled united in these proportions. We have compelled them to unite, by heating the substance or root. The carbon is by this sume process consumed, and you know, has thus formed carbonic acid. Besides this, a portion of the carbon unites with some of the hydrogen of the plant. This forms light inflam-mable air. Now you may recollect this light, inflammable air, in any stegnant water where planfs

is only slow combustion, or burning; no matter Now, this holding of manure belongs to the sub-whether we char the plant or leave it to decay, just of soil, and throwing that out of considera we obtain exactly the same products as we did by our analysis, that is carbon and salts.

But because there is not heat enough, we have by desay. A portion of the bydrogen and exygen still united to the coal. A slow moul-dering fire leaves products more like these of Decay is a slow mouldering fire, hence decay. the products of the day of plants, are very apily wimed mould. It is the product of a moulder ing fire, that is an an imperceptible union of is mre, that is an an imperception union of the exygen of the sir, with the carbon of the plant. A union is clow, that it gives out nei-ther heat nor light. And yet it is in its results, the same as if fire had actually been seen and Mould contains, then. a part of the car ælt. bon, exygen and hydrogen, or, if you like the terms better, mould and soil consists of the of the water and coal and salts of the plants. Mould is truly manure. If the Mould of soil, so it has thus been defined, were separated from the earthy portions of soil, it would deprive that soil of the power of growing crops, liero Hero then, we come to a broad distinction be: ... een soil and manute. This soil is the earth on which plants grow. The mould is the manure of that soil. The soil is the earthy ; the mould that is, the carbon and salts, together with the elements the carbon and sails, together with the elements of water, are the vegetable part of arable land. Batthough the earthy part, the soil as it is usually called, acts as a support, on which plants grow, it does not play morely a mechanical part. It was a distinct, decided and important action upon the manure. This action is chiefly chemical; and the fact that so is and manures do mu tually affect the growing plant, is proved by the creumstance, that the first plants which grow derived their solts from the earth.

But the chemical action of soil does not belong to the present discussion. We can understand what manures are, without dociding how they act. We can theorize and guess about the how of their action, when we have learned what they are. That is chiefly what the farmer wants to know. He wants to know what manure 19, То and what is likely to act as a manure. these points we shall confine our prosent re-marks. Pointing out the great principles, ap plicable to all manures, the nature of soils, and the manner in which they affect manures, must be left for another essay. The vegetable or manure part of soil alone, is now to be const dered. Consider now, reader, the great results to which our analysis has led us; that a slow, to which our analysis has led us; mat a slow, mouldoring fire gives us the same products as are formed by decay; that this is only a slow, mouldering fire, and that mould its product, is the natural manure of plants It follows, that whatever substance produces mould, that is, water, carbon, and salts. may be used instead of this natural manure. Among the salts found in mould, some are volatile, and are easily discolved by water. Others are fixed, that is not eraporating easily or not at all, and are quite insoluble in water. Now the first, or volatile and soluble, first act when in manure. They etquick, and are quickly done. The fixed and insoluble act slower, they last longer. The vo alile act in the early stages of growth, the fixed in the latter periods. The great differende in water, and salts. The whole are equally essen-the action of manures '-ponds almost entirely, tial outs action. There is no eve, nor ear, nor he most important and essential. It is not so the other members, "I have no need of thee." much the vegetable mould of manure which you some the skinning process, old, wormout, and heeps up the healthy c.rculation among the inn out land, still contains a very large portion of vegetable matter: the contained of the sources."

r than it was before man ever cultivated it. Than it was before man ever cannaked in Too much stress has been all along laid unon bekind of soil. Go now to "Flob," in West Too much stress has been all stong had upon the three following operations of hushandry. I. he kind of soil. Go now to "Flob," in West To carry off all stagnant and superfluous water Cambridge, no batter farms or farmers look the by means of judicious diaining. 2. To return raild through. Ask any of these practical men, through the medium of manure, the strength whether the saudy of gravelic soil of Old and return y inch has been extracted from the fambridge Common, or even of Seckonk Plan, and by cropping. 3. To cradicate all noxions ian be made to bear as tich crops as their land the weeds, that the strength of the manure may be like will tell you yea. If your land will hold thrown into the crops and not into the weed passure, much it well, and it will be as good. Rawstone's Remarks on Lancashire Farming.

ject of soil, and throwing that out of considera ject of soil, and throwing that out of consusera tion, it is found that even lands which do not hold manure, which have been worn out and exhausted by dropping, hold yet a great deal of meluble coal of wood. They want saits, and somathing which will make this insert, dead va-getable matter of the soil, active. The meuld is active in proportion, as it is more or less dis-colucity wates. Mould consists of two nature is solved by water. Mould consists of two parts ; one is dissolved, though only in a slight de-gree, by water ; the other is not dissolved by water. Some enbstances, however, do render mould very easily dissolved by water. Hence if you reflect a moment on these facts it will be seen that mould itself, being valuable in proportion to the case with which water dissolves it, that whatever substance so enables mould to dissolve, may be added to it, and thus increase its value. Now the things which do this, are the alkalies, soda, patash and ammonia. These principles being well settled, we may enter on the consideration of each different manure. They will be valuable in proportion to the quantity and kind of salts, each contains, added to the power they may have by producing their decay, substances which make their mould so-luble. Now this last property, that is, the property of producing a substance which makes mould soluble, depends wholly upon the nitrogen of the manure. This nitrogen in the process of decay, becomes volatile alkali or ainmo nia. The word aminonia, will occur so often in the present discussion, that we should endeavour to fix some definite idea to it. You need not, render, be acquainted with all its chemical properties, I suppose every man who will be likely to read these remarks, has smolled ammoma. It has been already said, that it gives the peculiar pungent smell to the common smelling boule.

This is volatile ammonia. It is always form ed when ammal or vegetable bodies decay. It has been already said, and is now repeated

in order that it may never be forgetten, the am-monia is formed by the union of hydrogen and nitrogen. Hydrogen and nitrogen, two airs, nitrogen forming four fifths of the air we breathe let that beharne in mind, and without going into the chemistry of ammonia fur her, or the mede the chemistry of ammonia tur her, or the mede of calculating how much ammonia a pound of nitrogen will make, it may be lad down, and must be remembered too, that every pound of nitrogen must be called two and a half pounds of sal volatile, or smelling salts of the smelling bottle. Two and a half pounds of volatile am-monia formed from one pound of nitrogen. If there are and determine are deminited way how then we can determine, as chemistry may, how much nitrogen exists or forms a part of manure, two and a halt times that will be the ammonia of that manure. If then the vegetable part of manure is as we said. valuable and active, in proportion to its degree of being dissolved by water, then, as ammonia gives it this easy solubility, wo may safely say, that the quantity of nitrogen in manure, is the measure of the va-iue of its vegetable part. One thing must be guarded against not to place from this view the whole of the value of manure upon its ammonia Remember that manure consists of carbon, the whole act together ; but it is not to be

of vegetable matter: the conl or carbon of Good Farming.—It may be laid down mould without its salts. Give this wornout as a standing rule, and as a guide to direct our and salts, and you may, by these alone bring it exercises, that all good farming, the whole of back not only to its virgin froshness, but you, that process by which bad land is to be converted may even by salts alone make it fairer and rich- into good, or land naturally good and productive is to be continued in that state, is comprised in the three following operations of husbandry. 1.

#### From the Albany Cultivater. HAY MAKING.

We think it beat to cut grass for hay. as near as possible to the time when it is in ful lost bloom. Of course it is to be little past, and it is in this state, some may be little past, and lost bloom. Of course if it is cut when most of know there has therefore been some difference of opinion as to the stage grass should be when it is cut, but we believe the experience of the base farmors is in agreement with the position above assumed. Those who are in the habit of curing herbs, cut them when in this stage, because it is known that they contain at that time the most of that peculiar principle from which they derive their efficacy and value. The saccharine of sugar principle, which constitutes one of the chief anurcos of nutliment in herbage, is found in the great-est quantity at the period of bloom. It may sometimes be expedient to cut grats before it has eached this state; particularly where it fulls down, and is in danger of souring or lotting. down, and is in danger at souring or totting. When this hoppens, it should be cut, whatever state it may be in, because if it remains on the ground it will spoil, and the fermentation which takes place, will destroy the roots. Another great advanage in cutting grass before the seed forms, is that the roots are not so much exhausted, and the after growth is much more vigorous.

In some parts of the country, it is the prectice to mow the grass and let it he untouched on the to mow the grass and ict it he union-and on the ground, "thro' sunshine and shower," for second days before it is stacked or put in the barn. It is quite common to begin Monday and continue to mow till Salurday, when with hand-rakes and horso-horse, all turn in, take it up and s ack it ; and this is done too, without much regard to the state of the weather at the time it is raked, or to what it may have been after it was cut. The ap-pearance of the animals which are fed on hay thus managed, is evidence enough of its worthlessness.

After grass is cut and partly dried, it onght never to be exposed to dew or wet. The best way is to spread out the mown grass evenly, as way is to spread out the more between the swathes, and before the deals in the spaces be-tween the swathes, and before the dew falls in the tween the swathes, and point it in cock. Where the evening, fake it and put it in cock. where the crop is heavy considerable time will be gained in making, by this plan. If it is only willed when it is put in cock, it will in a short time undergo a succat, which will much facilitate its making when it is again opened to the sun. Many good farmers believe that it will make more in two days, if it is kept in cock twelve hours, than it will make in three days without being put in cock.

In making clover hay, we are decidedly in fa-vour of not exposing it much to the sun after it is first wilted. We speak from experience, having practised various modes, and we are certain that it may be made with less labour, and that it is of far superior quality when cured in cock, than When the swathes are a little in any other way When the swathes are a little wilted, pitch them into cock-laying it up in such a manner that it will stand the weather, which is easily done by the exercise of a little care. Examine the hay from day to day to see how the process of curing advances, and when it seems to be so well made that with what it will dty in has dling, it will do to put in the barn or st turn over the cocks, loosen up the bottoms a little with a fork, and proceed to load it. Clover hay thus cured is not likely to heat in the mow or stack, and from having every leaf and head saved; will be found to be very nutricious and much relished by all animals. In fact; we believe that clover hay properly cured, will make more flesh, milk, or butter, than any other hay, pound for pound. The prejudice against clover has arisen from the bad manner of curing it. Knocked about as it frequently is, wet and dried by turns, it loves its leaves and lieads, and becomes little else than a mass of tasteless stems, which no animal will cat,

Loss of Time in Ploughing.—When ridges are 78 yards in length, no less a space of time than 4 hours and 39 minutes is spent in turnings in a journey of 8 hours, whereas when ridges are 274 yards long, I hour and 19minutes is sufficient in the same length of time.-Code of Agriculture.

#### From the Albauy Cultivator, CHEESE MAKING.

A subscriber who makes a large quantity of cheese, has requested to be informed how some of the celebrated English cheese is made. After having looked over all the principal papers on the subject within our reach, we have concluded we cannot give the information sought, in a better form, than by pre-senting an extract from the "Report of a Goucessnershire Vale Farm," published by the British Society for the Diffusion of Us nal Knowledge," in the third volume of "Hus-Knowledge," in the third volume of "Hus-bandiy." The occupant of the farm is Mr. Brinkwater S. Hayward, whose management generally, we should think from the Report, is of the best character :--

Management of the Dairy .--- It is acknowledged by every one at all acquainted with the subject, that the quality of cheese does not depend upon the superior richness of the soil or the fineness of the herbage; for cheese of the first quality is often made from land of inferior description, and from herbage of a coarse nature. Nor does the quality of the cheese de-pend on the breed of the cows, for cheese of the cows, for cheese of the best quality is made from the milk of cows of all the different breeds in the country; we think it principally depends on the manage-of the cows as to their food, &c. of the milk in converting it into cheese, and of the cheese till it is fit for market.

The following circumstances are injurious to the quality of cheese; allowing the cows to get rank or ill flavoured grass or hay, these conveying a had flavour to the milk and cheese; allowing the cows to run and heat themselves; driving them far to be milked, which makes the milk froth much in milking; carrying the milk from the place of milking to the dairy ; and allowing the milk to rem un long after it is milked, before it is set with the rennet.

The greatest dependence is upon the dairy maid ; and the chiel art of making cheese of the finest quality, hes ne her management. The superintendence of the dary invariably devolves upon the farmer's wife. Mis. His ward attends to every minute circumstance in this department, and the following is a report of the information she has obligingly fur nished respecting the whole economy of the dairy of this farm :-

The management of a dairy should be conducted with the greatest regularity. Every operation should be performed precisely at the proper time. Either hastening or delaying the execution of it, will cause chrese of an in erior quality to be made of nulk from which the hest may be obtained. A dany maid is selected for sk ll, cleanliness, and strict attention to her business. Her work commences at four o'clock in the morning, and continues without intermission till bed time.

The dairy house should be kept at a temperature of between 50 and 60 degrees; and tie dryer it is, the better, as both the milk and cream retain their sweetness much longer it a dry than in a damp air. Every time therefore, the dairy is washed, it is dried as Every time qui :kly as possible,

The milkings should be as near as possible at equal divisions of the day, commensing at about four o'clock in the morning and three in the afternoon The milking should be finished in an hour. The damy maid sees that hurned in an nour. The dairy main sees that the nulkers do their duty, and that all the cows are milked clean; for the milk that comes last is rishest; and besides, if the cow-are not clean milked, there will be a gradual dununtion of the milk, perceptible daily; for these reasons, the greatest care is taken that the cows are clean milked. the cows are clean milked.

The cheese tub being put in its p'ace in the dairy, the ladder is put across it, and a large thin canvass cloth covers the whole tub and Indder, w catch any of the milk that may drop from the pail, and to prevent dirt from falling into the tub. Above this, and upon the ladder, is placed a hair cloth sieve, through which the milk is strained. If the milk should

in the wash house, by which means the whole is warmed to the proper degree. It is of the utmost moment to attend to this, for if the milk is not wirm enough when the rennet is put into it, the cheese will be 'tender,' and will bulge out in the edge, which spoils its appearance, and a great quantity of schment of small card will be found in the whey, which is so much of the card lost. If, on the other hand, the milk is too warm, it will cause the cheese to 'heave' or ferment, which injures both its appearance and quality. When the milk is sufficiently warm, the colouring mat ter, (if any is used) and the rennet are put into it, after which, the tub is covered with a woolen cloth for at least an hour. Rennet or runnet is made from the stomaches of calves, here called 'vells.' Mrs. Hayward never uses them till they are twelve months old; for il they are not old, the rennet made from the method, to in they are not old, the rennet made from them causes the cheese to 'heave' and become full of 'eyes' or holes. She prepares the rennet from them by adding to every six vells, two gallons of brine and two lemons. The lemons do away with any disagreeable smell, and give the rennet sweetness and agreeable fla-vour. Twenty or thirty gallous of it are made at a time, as it islound to be much better when made in large quantities. It should never be used till it has stood for at least two months.

When the curd is sufficiently firm for breaking, it is gently and slowly cut with a three bladed knife down to the bottom of the tub (the knife being about fourteen inches long.) both ways, or at right angles and around the sides of the tub. The cuts should be about an inch apart. When it has stood five or ten minutes, to allow it to sink a little, and the whey to come out as clear as possible, some of the whey is dipped out of it with a bowl, and the curd is cut a second time with the three bladed knife, very slowly to begin with; for if the cutting is done hurriedly, a great quan-tity of sedurant of very small cuid will pass through the serve and be found in the whey, and there will also be an increase in the quan tity of whey butter, which should have been in the choice, and the value of the butter thus obtained will not compensate for the loss of credit the cheese will sustain from the abstraction of the butter from it. The cutting being therefore performed very slowly at first, and with the strokes of the knife at considerable distances from each other, is gradually quickened, and the strokes are taken nearer and nearer every time. At last, one hand, with the skimming dish, keeps the whole in motion turning up the lumps suspended in the whey, while the other, with the knile, is in constant motion, cutting them as small as possible; and this operation is continued till no more lumns tre brought to the surface, and the whole mass is reduced to one degree of fineness. This

process may opcupy a quarter of an hour. The cuid is new allowed to stand a quarter of an hour, and being thus sufficiently settled, the whey is taken from it with the bowl, and poured through a very fine hair serve, placed over the whey leads. When the greatest part of the whey has been separated from it, the dairy maid,folding over a portion of it, and beginning at one corner, goes around the tub. cutting the curd into lumps, and laying them on the principal mass, by which operation the mass is carried all round the tub, and most of the remaining whey escapes between the cut fragmente as they he and press upon each other. From time to time the whey is taken from the tub, and put through the serve into the whey leads,

The curd is then cut into va's (hoops) and pressed down with the hands ; the vats being covered with chcese cloths about one yard and a quarter long of fine canvass, are placed in the press for half an hour, when they are taken out and the curd cut into thin slices, and put into a mill fixed on the top of the tub. which tears it into very small crumbs as small as verches. This mill, which is of Mr. Hay ward's construction, is a great improvement in the making of cheese, but only as it saves the dairy maid the most laborious part of the not be of the temperature of 85 deg. ces, a por- process, that of squ exing and rubbing the five to the hundred, or twenty pounds pach,

tion of it is put into a deep tin kept for the curd into small crumbs with her hands, but ne purpose, and placed in a furnace of hot water it allows the lat to remain in the cheese which it allows the fat to remain in the cheese which the hands squeeze out.

In its pulverized state it is customary with most dairy maids to scald the curd with hot whey; but Mrs. Hayward considers cheese richer when made without scalding the broken card, this washing the lat out of it. She, therefore, without scalding it, puts it into the vats and presses it closely together with the hand in filling them. In making the double Gloucester cheese, particular care is taken to press any remaining whey from the turk as the vats are being filled, and they are filled as compactly as can be done with the hand, being rounded up in the middle, but just so much so that the whole can be pressed into the vate. Cheese cloths are then sprend into the vats, and a little hot water is thrown over the cheese cloths, which lends to harden the outside of the cheese and prevent it from cracking. The curd is now turned out of the cracking. The curd is now turned out of the vats into the cloths, and the vats being dipped in the whey to wash away any clumbs or curd that may cling to them, the curd is inverted, and with the cloth around it, is again put into them. The cloths are then folded over and tucked in, and the vate as they are filled, are put into the press one upon another. The bottoms of the vats are smooth and a little rounded so as to answer the purpose of cheero boards, which, therefore, are only wanted for the uppermost vats, or when the other vats are not quite full. The vats are allowed to are not quite full. remain under the press about two hours, when hey are taken out and dry cloths are applied which with double Gloucester cheeses, should be repeated some time in the day.

Salting, and Salting Presses .- The vats, when the clean clothe are given, as just mentioned, are changed from the single press to the one next to it, and placed in it, one upon another, as before. They remain in this press till the cheeses are salted, when those made in the evening, take the place in the press of those made in the morning, and those many in the evening, are in their turn displaced by those made the following morning ; the cheeses of the last making, being always placed lowest in the press, and those of the other makings, rising in it according to the priority of making. [From this, we infer that a beam press is used, into which several cheeses may be put at once, the older ones which require the greatest pressure being put nearest the fulcrum.] This order is also observed in the other two presses, the last, or newest making in each, heing lowest, and each making having a ng Loxtabove it that which was made last The cheeses pass thr ugh the three presses In this order, advancing a step in their pro-gress at each 'meal' or making, till, at last, in four or five days, they come out of the prose-es and are put on the shelves. They are generally salted at the end of twenty four hours after they are made though this is done by some at the end of twelve hours. The sating should never be begun, till the skin is all closed, for if there be any prack in the shin of the cheese at the time of salting, it will never close afterwards. The salting is pernever close afterwards. The saling is per-formed by rubbing vith the hand both the sides and the edge of the cheese with finely powdered salt. The cheese, after this, is returned to the vats and put under the press, care being always taken according to what has been said to put the newest cheese lowest in the press, and the oldest uppermost. The saling is repeated three times with the single and four times with the double Gloucester, twenty four hours being allowed to intervene between each saling. After the second sali-ing, the cheeses are returned to the vats without the clothe, that the marks of the cloth may be entirely cliaced, and the cheese may get a smoothness of surface and 'keenness of edge,' which is a peculiarity of Gloucester shire cheese. The slouble Glou-cester remain in the presses five days, and tho single, four; but in damp weather, they should care being always taken according to what single, four; but in damp weather, they should remain longer. The quantity of sult gener-ally used is about three prunds and a half to a hundred weight of cheese. The size of the double Gloucester cheeses is commany about

and that of the single, about eight to the hundred, or twelve and a half pounds each.

The Cheese Room .- When the cheeses are The CRESS Hoom.—When the choeses are taken from the salting presses, they are put on the shell in the dairy for a day or two, where they are turned once in the cheese loft to make They are then taken to the cheese loft to make way for the new ones. In the cheese room either on the floor or on the 'cheese room either on the floor or on the 'cheese rack,' they are turned once every day, and in gren-eral, in a month from the time they were taken out of the vat, they are ready for clean in the bit is done by service red to chean ing, which is done by scraping them with a common knife. The cheese, if intended for the London market, as is generally the case, is rubbed, after being cleaned, with a paint of Indian red or Spanish brown, or a nixture of both and small beer. It is rubbed on with a woollen cloth. After being painted, it is turned over twice a week, and oftener if the weather is damp ; and as soon as the state of the paint will permit, the edge of the cheese and about an inch of each side, is rubbed hard with a cloth, at least once a week.

Characteristics of the true Gloucester.-The marks of true Gloucester cheeses, are the blue coat which arises through the paint on their sides, and which is a sure sign of their there and such as a such as a such as a such as the sellow, golden thue of their edges, a smooth, close and wax like texture; a very mild and rich flavor, like texture; a very mild and rich flavor, not crumbing when cut into thin shees, nor parting when toasted, with the oly matter they contain, but softening, without burning. If cheese has been soured in the making, either from being too long in hand, or from want of attention in scalding the utensils, nothing will cause it to assume the blue coat. If the curd is salted when ground down before being put into the vats, has the effect of giving being put into the vats, has the effect of giving a skin to each of the particles of curd it comes in contact with, which prevents them from intimately uniting; and although the curd may be presed together and make good clice-e, yet it never hc.omes a smooth, close, solid mass, like that which is salted after it is made to the form for the salted after it is made; but is of a loose texture, and crumbles when cut; and a'though it may be qually fat, jet in toasting, the fat mells out of it, and the cheesy part burns. The skin of the cheese, too, is not tough and solid, but hard and brittle, and when examined, seems to be formed of many irregular portions.

#### From the Boston Cultivator.

#### DESTROYING LICE ON

#### CATTLE.

Messrs Editors :- About a year ago if I rightly remember, I read in your paper an article on the incans of destroying these trouble. some insects, by applying a mixiure of line and ashes to the floor on which the cattle stands and rests. My cattle doubtless like all others, have ever been more or less infested with this hateful species of vermin. I have tried various expedients for their extermination, such as Scotch, or yellow snuff, lard, decoction of tobacco, &c., none of which have ever proved sufficiently adequate to effect the object intender.

Last fall when my cattle came to the barn, I resolved upon trying lime & ashes, as preven tative of lice amongst them. Accordingly I spread them in about equal quantities, and spread them upon my stuble floors; directly under my cattle's fore feet. When what I had applied at first was exhausted, I then made another application of the mixture, and so continued to do during the winter.

As to the effect this practice has had in preventing lice amongst my cattle, I now can-didly state that they were never more free from them, than they are this spring.

I will mention one fact in confirmation of the utility of this application for destroying lice.

In Febuary last I purchased a pair of four year old cattle that were exceedingly lousy. I was Sprains .- Embrocattor: 1 oz of sweet oil, 4 ... particular to keep the floor very well strewed of spirits of bartshorn. For the sting of becksopply with these ingredients, and upon examining chelk or whiting mixed with vinegat.

them several weeks after, I could not discover a solitary individual of the numerous host remaining.

The lime of which I made use, had lain open to the action of the atmosphere until it was reduced to a powder, or nearly so, before using. Μ.

#### EDITORIAL REMARK.

The above seems to be a very simple and effectual remedy, and it may be practised without the least injury to the cattle, which is not the case with some remedics used, such as mercurial oiniments, a decoction of tobacco, oil, &c. In cold weather oil has a bad effect, as it keeps the lide moist for along time, readily conducing off the animal heat and producing a chill. As vermin are so distructive to the peace, comfort, and thrift of cattle, no pains should be spared in guarding sgainst them, and applying a temedy wherever they make their appearance.

#### REMEDIES FOR DISEASES. OF CATTLE.

Sting of the Adder, or Slow-worm. Apply immediately strong spirits of hartshoin, For sting of bees, apply chalk or whitening mixed with vinegar.

To take Film from a Horse's Lyc. -Blow losf sugar and a hitle salt into the inflamed eye, and in most cases it will be relieved. Sassafras buds pounded, and put in water, to stand till it becomes nearly as thick as cream, applied to the eye, is an excellent remedy for inflummation.

To relieve Colic in Horses .- Rub spirits of turpentine on the brest of the horse ; and if he be drenched with it ho will be relieved. Horses should never be put to severe work on a full s O nach , more horses are hurt by haid driving after a full tred, than by a full feed after hard driv-ing -English Farmers' Journal.

Reducater .- Bleed first, and then give a doso of 1 lb. Epsom salts, and a half pound dose repeated every eight hours, until the bowels are acted upon. In Hampshire they give 4 · z of spirits of turpen tine in a pint of gruel. Blackwater is the ronclud ing and commonly fatul stage of redwater.

Cleansing Drink -1 oz. of bayberry pawdered loz of b instone puedered, 1 + z. of cumin seed powered, 1 oz. of diapante; boil those together for ton minuter. Give when cold in a gruel.

Colic - The best remedy is one pint of linseed oil, mixed with & oz. of laudanum.

A good cordial is 1 cz. of carraway seed, 1 cz. annis seed, ‡ oz of ginger powdered, 2 oz. fence-greek seed powdered. Boil these in a pint and a half of beer for ten minutes, and administer when cold.

Diarrhaa.-Give 1 oz of powdered carchechu and 10 grains of powdered opium, in a little gruet

Dysencery - The same as for diarrhana.

Ferer .- Bleed : and then, if the bowe's are . o . stipated, give half a pound of Epsom sales in 3 qts. of water daily, in gruel.

Hoore or Horen .- Use the classic tube. As a preventive, let them be well supplied with common salt, and restrained from rapid feeding when first turned to grass.

Mange .- Half a pound of block brimstone, 4 pint of turpent.ne, I pint of train oil; mix them together, and rub the mixture well in over the affected parts.

Milk ferer or Garget .- 2 oz, brimstone, 2 oz diapente, 1 cz. cummin seed powdered, 1 oz powdered mire. Give this daily in a intile gruel and well rub the udder with a little goose grease.

Murrain .- Half a pound salts, 2 oz bruised coriander seed, 1 oz of gentian powdered, Give these in some water.

Poisons swallowed by oxen are commonly the yew, the water dropworth, and the common and the water hemlock. I pint and a half of linseed oil is the best remedy.

Worms-Bots.-Give half a pound Epsom salts, with 2 or. contander seed, bruised, in a quart of water.

> -BOTS IN HORSES. BY JOHN SHERFRY.

To the Editors of the Prairie Farmer :

I send you a valuable recipe for the cure of bots in horses. I have used the prescripbest success in every case :-

Take a piece of tin, say six inches long and two inches wide ; punch one end full of small holes, like a grater; turn up the upper tipof the animal's mouth, and scarify it well with this grater; then take gunpowder, wheat flour, and salt, in equal quantities-say of each a tablespoonful-and mix them together; then take some in your hand and rub it on the scarified 1 p Rub hard, frequently taking the mixture on your hand, and continue the rubbing for fifteen minutes ; in fifteen minutes more the animal will go to eating, if the remedy is not applied too late. Lately I have heard it stated that salipetic brine will destroy a live bot sconer than any other liquid medicine. Let the incredue lustry ít.

Oak Dale Farm, Iowa,

April, 1844.

To the Editors of the Prairie Farmer:

I herewith send you some items extracted from time to time from the London Magnet, Beil's Weekly Messenger, the Weekly Despatch, the Chelmsford Chronicle, and the Norwhich Mercury, which I hope you will find interesting for your readers. Yours, &c.

JACOBUS.

#### ..... CURCULIO.

Mr. John G. Kennick, of Newtown, in the magazine of Horticulture, gives the following remedy for the curculto. We observed that remedy for the curculto. We observed that Mr. - exhibited at the Horticultural Rooms, very fine plumbs last season :-

" Having heard sait recommended, as a protection against the curculio, I concluded to make a trial of salt lye, having a quantity at command. The yard contains about one eight of an acre, in which I have about one hundred trees. In the which I have about one buildred trees. In the spring, I had about two loads of meadow mud, wellsaturated with lye, evenly spread and spaded' in. (The year previous about the same quanity of dock mud was applied in the same 'way.) About the first of \_ une, I put in a load of about five hogsheads (salt lye) in addition, pouring it from a large watering pot, about two common sized pailsful to each tree, saturating the whole ground in the yard; and so powerful was the application that there was not a weed to be found the height of two inches during the season's every tree bore well, and many of them were so completely loaded with fruit, that I was obliged to stake them to prevent their Tresking down. There were a very few curclious which found their way up the trees, but not a ticenticth part enough to thin out the fruit as they ought to have been, which prevented their attaining the size they otherwise would have done.

Soaking Corn in Muriatcof Ammonia. Dr. Sumual Webber gives an account in the New England Farmer of several experiments which he made last season with muriate of ammonia. He dissolved a small piece of the common sal ammoniac of the druggists, estimated at four or five grains, in about half a conce-cup of water, and threw into the solutation a handful of corn, which, after having remained four or five hours, was plant-Ho planted this soaked corn in hills, side by side with that which was not soaked. He mude four different experiments, which are reported in considerable deuil. In all cases, the soaked seed produced considerably the best yield-generally at least one-third more. The land was light and dry. least one-third more. least one-third more. The land was light and dry, and for several of the experiments he purposely rook the poorer spots. The corn suffered with drought; but in all cases that from the socke-eed munifested a decided superiority; so much, indeed, that it was noticed by strangers, who knew of no difference in the seed.

(Continued from the June Number ) AN BASY METHOD OF MANAGING BEES. IN THE MOST PROFITABLE MANNER

TO THEIR OWNER.

The above is the title of a nearly printed manual which was lately presented to us by Mr. David Leflar, of Churchyllle, Home District. Mr. L informs us that he has followed out. In detail the directions of the author, and his efforts have been crowned with success.

If the Canadian farmers would turn their at tention lergely to the management of Bces, the article of honey would very shortly become a considerable item on our list of exports to Enghad. Immense quantities of honey is imported yearly into the Mother Country from Holland and ather egatinental countries, all of which might be supplied from this country if the people would only turn their attention to the business.

#### ROLE 2.

#### Do Presenting the Depredations of the Moth.

All such stocks as are infested with the moth, -11 .... calfeet it as soon as warm weather commeners in the spring, by dropping some of the werms upon the bottom board. Let the apiarian when off the bottom board every other morning ; at the same time strew on a spoon full or two of fresh, pulverised salt.

Immediately after a second swarm has com Sorth from a hive, the same season, the old steck should be examined ; and if swarming has reduced sheir numbers so low as to leave unoccupied combs, the aplarian should take the Queens from the swarm, and let them return to the old stock.

Third and fourth swarms should always have sheir Queens taken from them and the bees returned to the parent stock.

Remarks .- " This insect (the moth) is a native

of Europe i but has found its way into this coun, try, and naturalized itself here." - Thatcher,

This unwelcome visitor has interested the attention and called forth all the energies of the most experienced aplarians of our country, and of many of the greatest naturalists in the world. Their ints have been observed and scrutinized by 300 Mar 10 the most learned-their nature has been studied; various experiments have been tried to preven their depredations ; but, after all, the monster in gaudy hue marches onward, committing the greatest havoc and devastation, with but little molestation. I have lost my whole stock at least four times since 1808, as I supposed by the moth I tried all the experiments recommended in this and other countries, that come to my knowledge; but, after all, I could not prevent their ravages.

In 1830, I constructed a hive (which was patented in 1836) which I supposed would afford all the facilities for managing bees in every manner that their nature would admit of, and at the same time render their cultivation most profitable to their owner. By constructing windows of glass, on every side of the blve, nearly the size of its sides, ad darkening them by clusing doors on the cutside of the wisdows, which may be opened at pleasure, I have been able to discover manyimportast facts, both in relation to the nature and econo-my of the bee, and its enemy the moth ; but, pro-bably, much yet remains to be learned concerning both.

The moth, when first discovered by the common corver, is a white worm or maggot, with a redish crusted head, and varies in size according to its living Those which have full and unmolested access to the contents of a hive, will frequantly grow as large as a turkey-quill, and an inch and a half in length. Others are scarcely an inch is length when full grown. They have sixteen short legs, and taper each way from the centre of their hodies.

The worms, like the ailk-worm, wind themselves into a concord, and pass the dormant (chrysalis) state of their existence, and in a few days come wat of their silkon cases perfect winged insects or million, and are soon ready to deposit their eggs, rom which another crop will be tatsed. oute mill

The miller or perfect moth, is of a grayish color, a three-fourths of an inch to an inch in length.

with th ir head downwards, harking in and shout the spiary They enter the bive in the night, and the spinry They enter the bive in the main, and deposit their eggs in such places as are uncovered -of course ungarded by the bees. These eggs hatch in a short time, varying according to circum-

stances, probably from two or three days to four or five months. At an early stage of their exis-tence, while yet a small worm, they spin a web, and construct a sollen shroud, or forthese, in which they envelope themselves, and form a sort of path, or sellery, as they pass onward in their march ; at or gailery, as they pass onward in their march's we the same time being perfectly secure from the bees in their silken cose, which they widen as they grow larger, with an opening in their front only-near their head, they commit the greatest have and devastation on the eggs, young bees, and all that come in their way as they pass.

When the moth has arrived to his full state of maturity, he makes preparation to change to a miller, by winding into a coccoon, as has been already explained. The miller is surprisingly alroady explained. The miller is surprisingly quick in all its movements, exceeding by far the agility of the quickest bee, either in fight or on its legs. Hence the enemy becomes so formidable lege. that she bees are easily overcome, and soon fall a sure prey to him.

Now, in order to remedy the evils of the moths, and prevent their ravages, and at the same time aid the bees in their prosperity, and make them profitable to their owner, I found it necessary to use a hive differing materially from the old hox, and commenced operations in the one already referred to, (called the Vermont Hive.) in acourse of experiments which have produced results perfectly satisfactory. From 9 seasons' experience in its uso, I have not the least doubt that bees may be managed to the best advantage, and without ever being materially injured by the moths.

A bee-hive should be made in a perfectly workmanlike manner, so as to have no open joints ; the boards should be free from shakes and cracks because the bees will make their tenement perfect. ly tight, so as to exclude light and air, by plastering up all such places as are left open by the workman, with a kind of mortar, or glue, of their own make, which is neither honey nor wax, but is very con-genial to the growth of worm- in the first stages of their larva state, and being secured from the bees by the timber, in a short time they are able to defend themselves by e silkon shroud.

Now the miller enters the have and makes an incision into the bee-glue, or cement, with her sting, and leaves her eggs These eggs hatch there, and the brood subsist on the glue until they have arrived so far towards maturity as to enable them to encase themselves in a silken shroud; and then they move onward.

Now, unless the bees chance to catch him by the collor, or nape of his neck, while feeding, and drag him out of his place of concentment, they will be compelled to cut away the combs all around his silken path, or gallery and drag out the worm and his fortress all together. At the same time, the bees are compelled to cut away the combs so for as to destroy many of their young broods in making room to remove the annoyance. I have known them to cut away their combs from four to eight or ten inches to remove this silken shroud, and have known them to cut and drug out their only remaining Queen before she was transformed to a perfect fly, which occasioned the entire loss of the whole colony.

Repeated experiments have demonstrated the fact, that placing bees on the ground, or high in the air, is no security against the moths. I have lost s me of my best stocks by placing them on the ground, when those on the bonch were not injured by them. I have made a groove in the bottom board, much wider than the thickness of the boards to the hive, and filled the same with loam. I then placed the hive on the same, in such a manner as to prevent any crack or vacancy for the worms ; and et in raising the hive four weeks afterwards, 1 found them apparently full grown all around the hive in the dirt. I have found them vory plentiful in a tree ninety freet from the ground.

The best method, in common practice, to prevent the depredations of the moth, is, to suspend the bottom board so far below the lower edge of the hive as to give the bees free entrance and egress all around the same during the moth season, or to They usually lie perfectly still in the day time, rause the common hive, by placing under it little the boes locate in the winter; and a disagreeshie

blucks at each corner, which produces good sfleck But I know of but one rule, which is an infallible one, to prevent their depredations, and that is this: keep the combs well guarded by bees. See Rule 10, and temarks on 12.

Large laves that never awarm, are never destrove I by the moth, unless they lose their Queen, melt down, or meet with some sasuality, out of the ordinary course of managing them. They are not often in the least anuayed by them, unless there are bad joints, cracks, or shekes, so as to afford some lucking places for the worms. The reason for their prosperous condition is abvious. The stock of bees are so numerous that their combs are all kept well guarded during the moth senson, so that no miller can enter and deposit her ogge.

Hives made so small as to swarm, are liable to reduce their colonies so small as to leave combs ungarded, especially when they awarm three or four times the same season. All swarms, after the fitat, sally forth to avoid the battle of the Queens ; constantly making a greater draft, in proportion to the number left, until the combs are partly expected. which gives the miller free scores to the adjust The seeds of repine and plunder are thus quickly sown, and soon vegetate, and fortify themselves by their silken fortress, before the bees are aware that their frontiers are invaded. While the mothe are thus engaged in establising their posts on the frontiers of the bees, the latter are constantly and indefatigably engaged in providing themselves with another Queen, to supply the place of the old one, which has departed with a swarm, and raising young bees to replenish their reduced colony. Nov as the moths have got possession of the ground on their frontiers, it requires a tromendous effort on the part of the bees to save their little colony from a complete overthrow.

If late, or second and third swarms are always returned immediately, according to the rule, the combs are kept so guarded the moths are com-pelled to keep their distance, or be along to desth before they can accomplish their purposes.

Hives made so large as not to swarm may love heir Qucen, and then they will abandon their habitation and emigrate into the adjoining hive, leaving all their stores to their owner, which. unless immediately taken care of, the moths will not fail to destroy.

The moths are often complained of when they are not guilty. Hives are frequently abandoned hytheir occupants, in consequence of the loss of their Queen, unnoticed by any observer, and before anything is known of their fate, the bive in destitute of bees, and filled with moths.

In the . ummer of 1834, one of my neighbors had a very large hive that never swarmed, which lost their queen ; and in the course of a few days the bees entirely vacated their tenement, and emigrated into an adjoining hive, leaving the whole of their stores, which amounted to 515 lbs. of honey in the comb. No young bees or moths were discovered in the hive. Instances of this kind frequently occur, and the true cause is waknown, from inattention.

The Queen is much more tenacious of life than any other bee, and may live much longer. It is believed that the common bees do not often live to exceed 18 months. The Queen is supposed to hve several years. By chapping one wing of a Queen accompanying a second swarm, she has heen known to come out with the first swarms for several successive years. But one Queen exista in the same hive any great length of time. When there are more than one, the peculiar sound of each, as explained in remarks on Rule 2, is beard by the other, which usually results in a battle be-twoen them, or the issue of a swarm in the course of a day or two, unless the swarming season is nearly at a close, then the common bees sometimes smother them as explained in romarks on Rule 2,

Bees, when placed in a dark room in the upper part of the house, or some out-house, are easily kept (not cultivated) a while, and may be of some benefit to their owner; but as they are liable to most of the casualties that swarming hives are, they cannot be as profitable. It takes several years before much comfort, other than the amuse ment of seeing them work, can be realized; besides if they chance to escape the moth, the combs are rendered exceeding dark coloured and filthy where

smell, which is caused by their winter breath and other exhalations, is the result. In a low years the bees acquire habits of indefence, and as a natural consequence, soon manifest it by their irri-tablity, unlike those Colonies which are industrious and in a healthy and prosperous condition.

and in a healthy and prosperous condition. Large colonies nover increase their stock in propertion to the swarming colonics. There is but one female in a large colony, and they can do but little more in raising young bees than to keep their, stock good by replenishing them as fast as they die off or and destroyed by the birds, reptiles and insects, which are great admirers of them, and sometimes swallow them by dezone. New if it requires increase maning colonies to be Now if it requires five swarming colonies to be equal in number to the one first described, is it not difficult to imagine that five times as many bees may be raised by the swarming colonies; for one Queen will probably lay as many eggs as another.

The swarming hives are no more liable to be destroyed by this moth, during the swarming sea-nes, than others, if the hives are kept well replasiehed with bees according to Rule 10.

#### BULE TI.

#### On Feeding Bees.

If it is found that a swarm need feeding, hitch on the feeder, well stored with good honey, while the weather is warm in October; or place comb filled with strained honey in the chamber of the hive, or on the bottom board, or both at the same , without dripping,-and the bees will store tim the honey in the lower apartment of the hive, if done while the weather is warm

The apiarian should use the same precaution in feeding, as directed in Rule 4, to prevent robbeties.

REMARKS. The best time to feed is in the fall, before cold weather commences. All hives should be weighed and the weight marked on the hive before bees are hived in the weight marked on the nive before bees are hived in them. Then, by weighing a stock as soon as frost has killed the blossoms in the fall, the spiarlan will be able to form a just estimate of their necessities. When bees are fed in the fall, they will carry up and deposit their food in such a manner as will be convenient for them in the winter.

If feeding is neglected until cold weather, the bees must be removed to a warm room, or dry

bees must be removed to a warm room, or dry cellar, and then they will carry up their food, ge-nerally no faster than they consume it. A feeder should bo made like a box with five sides closed, leaving a part of the sixth side open, to admit the bees from their common entrance with its floor level, when bitched on the front of the hive. It should be of sufficient depth to lay in broad comb, filled with honey. If strained honey without combs is used for feeding, a float, perforated with many holes, should be laid over the whole of the honey in the box, or feeder, so as to prevent any of the bees from drowing: and at to prevent any of the bees from drowning ; and at the same time, this float should be so thin as to ena-ble them to reach the honey. It should be made so small that it will settle down as fast as the honey is removed by the bees, There should be a tube inserted vertically through the float and made fast to it, extending upward through the top of the box in such a manner as to receive the honey from a tunnell and coavey the same directly under that float. A light of glass should be placed in the back side, and a door to close and darken it at pleasure.

Great profits may be made in large apiaries by feeding cheap honey in the fall. The bees, being compelled to carry up and deposit the cheap honey in the Lower apartment of the have, (and they will live on that as well as any other,) their owner can compel them to carry as much pure white clover honey into the drawers the following scason, there, being no room to store it below. Swarms will feed out and deposit ten pounds of honey a day and night, each hue. Small drawers cannot be depended on as feeders, except in the spring and summer unless they are kept so warm that the vapor of the becs will not freeze in them. It would be extremely hazardous for the becs to enter a frosty drawer. They will sooner starve than attempt the experiment. Drawers may be used without danger from robbers, but when the feeder is used, robbers must be guarded against as directed in Rule 4.

the brood comb too much with honey; when fully ted in the full, the bees more up the honey in such a manner as will be convenient for them in the winter, and notwithstanding the cells for raising young bees are filled up with honey at that time, the bees consume the honey and enter the breeding calls in the course of the winter, so that the Queer is not interrupted in depositing her eggs to raise

young Lees in the spring following. A good swarm of lices in the Vermont Hive should weigh at least 25 pounds the 1st of december, in addition to the weight of the hive.

Care should be exercised, in fall-feeding, to supply them with good honey, otherwise the colo-ny may be lost before Spring by disease. Poor honey may be given them in the spring, at the time when they can obtain and provide themselves with medicine, which they only best understand.

Sugar dissolved or molasses, may be used in the spring to some advantage but cught not to be sub-stituted for honcy, when it can be obtained.

#### RVLE XII.

#### On Wintering Bees.

Turnover the drawers so as to prevent the entrance of the bees, or their breath, in September, or fore part of October. When cold weather commences, suspend the bottom Loard half an inch, and open the ventilator.

#### REMARKS.

The watery substance which is caused by the breath and other exkaltations of the bees, and collects in the drawers in cold weather, should be kept out of them; because frost forms in them, and runs down through the apertures ca tho bees and the combs mould; besides, this vapor penctrates and fills the timber (drawers and chamber) and causes a disagreeablo smell the following scason, and is the cause of introducing the little ants into the chamber.

There are three p incipal causes of death among bees in the winter, to wit : want of honey, (not bread never cat it except when in the larva state) want of air, and freezing.

Bees sometimes die of starvation, with plenty of honey in the hive at the same time. In cold weather they crowd together in a small compass in order to keep warm; and then their breath, and vapour collect in frost in all parts of the hive, except in the region they occupy. Now unless the weather moderates so as to thaw the ice, the bees will be compelled to remain where they are located until their stores are all consumed that are within their reach. One winter we had cold weather ninety-four days in succession, during which time the bees could not move from one part of the live to another. I examined all my hives on the eighty-third day, and on the ninetieth day I found four swarms dead. I immediately exa mined the cause, which. was as already stated. I then carried all my hives into a warm room and thawed them, so that the bees could move.

Too much swarming frequently occasions the loss of the old stock the winter following, because their companions are so reduced in num-ber that the necessary animal heat cannot be kept up in the hive to prevent them from perishing by cold. All uch stocks should he stored in a dry cellar or some warm room, where they can be kept comfortably during cold weather. It is be-lieved that bees may be kept through the winter without losing them, if the apiarian is attentive to their wants. If destitute of honey, he will feed If suffering for want of air, (which is the them. most frequent cause of death.) he will ventilate them. If freezing, he will thaw them out, in short, if they are apparently dead, he will resuscitate and bring them to life and activity, which may be done in all cases (except when smothered) if attended to in season. In February 1833, I had a swarm that were starved by design. I TOsuscitated them three times without feeding in three successive days before life was extinct. The life of bees many times is in a state of suspension considerable time before their death, and may be resuscitated by human aid, when otherwise life would become extinct. I have resuscitated them repeatedly under various circumstances for myself and neighbours. Some of the best stocks I now own were once apparently dead. A screen bottom board should be used so as to let Bees should not be fed in the spring unless they jup the warm air into the hive, and at the same | below a partment and make the drawer their win-age acarly.destitute of honey, because they fill up time enable the apiarian. to control and keep the ter quarters, which should remain until warm wea-

bees in the bive during the process of resuscitati-on. The feeder should be used in every case, to give the bees exercise, and restore activity.

A cellar made in the side of a dry hill so co-vered as to keep out water, is a good storage for wintering bees. There should be two ventilators at the two most extreme parts of the cellar-one near the bottom and on its side, to admit pure air. the other through the top or covering to let the bad air escape.

## EULE XIII.

On Transferring Swarms. This operation should never be effected by computation.

First Method .--- Inserf drawer No. 1 Into the chamber of the hive to be transferred, as early as the first of May. If the bees fill the drawer, they will recede from the Lower apartment and winter will receive from the Lower apartment and winter in the drawer. As early in spring as the bees carry in bread plentifully on their legs, remove the drawer, which will contain the wrincipal part of the best to an empty hive. Now remove the old hive a few feet in front, and place the new one containing the drawer where the old one stood. Now turn the old hive bottom up. If there are any bees left in the old hive, they will soon return and take possession of their new habitation.

Second Method.-Take drawer No. 1, well filled by any hive the same season-insert the same into the Chamber of the hive to be transferred, in September, (Augu't would be better.) If the bees need transferring, they will repair to the drawer and make the same their winter quarters. Then proceed in the spring as directed in the first method.

#### REMARKS:

This management should excite a deep interest in every cultivator, both in a temporal and moral point of view. Temporal, because the lives of all the bees are preserved ;---moral, because we are accountable to God for all our acts. We are not to be justified in taking the lives of animals on inserts which are but to an insert or insects, which are but lent blessings, unless some benefit to the owner can be derived from their death, which will outweigh the evils resulting from such a sacrifice. Duty compels me to protest in the strongest terms and feelings against the inhuman practice of taking the lives of the most industrious and comforting insects to the wants of the human family by fire and brimstone.

When bees have occupied one tenement for several years, the combs become thick and filthy, veral years, the combs become thick and filthy, by being filled up with old bread and cocoons, made by young bees when transformed from a larva to the perfect fly. Bees always wind them-nelves in their cells, in a silken cocoon, or shroud to pass their torpid and defenceless [chryselis] state, These coccons are very thin, and are never removed by the bees. They are always cleaned immediately after the escape of the young bees, and others are raised in the same cells. Thus a number of bees are raised, which leaves an additional cocoon as often as the transformation of one succeeds that of another, which often occurs in the course of the season. Now in the course of a few years the cells become so contracted, in consequence of being thus filled up, that the bees come forth but mere dwarfs, and cease to swarm Combs are rendered useless by being filled up with old bread, which is never used except for feeding young bees. A greater quantity of this bread is stored up yearly than is used by them, and in a few years they have but little room to perform their ordinary labours. Hence the neces-sity of transferring them, or the inhuman sentence of death must be passed upon them, not by being hung by the neck until they are dead, but by being tortured to death by fire and brimstone.

It is obvious to every cultivator that old stocks should be transferred. I have repeatedly trans-ferred them in the most approved manner, by means of an apparatus constructed for that pur pose; but the operation always resulted in the loss of the colony afterwards, on a swarm which would have come from them.

When it is necessay to transfer a swarm from one Vermont, Hive to another of the same kind, one vermont, rive to another of the same kind, insert drawer No. 1 into their chamber in the spring, say the first of may. If they fill the drawer, let it remain there, if they need to be changed to a new hive, they will recede from the

ther has so far sdvanced as to afford them bread Then they may be removed to an empty hive, as directed in the rule. Now the drawer contains no bread, and should remain in the old stock until bees can provide themselves with a sufficient q antity of that article to feed their young b es with ; for bread is not collected early enough and in sufficient quantities to feed their young as much as naturo requires. If the bees fail in filling the drawer, one should be used that is filled by ano ther swarm. Thus the aged and a firm stock is changed into the full vigor of youth by then own free act, without any compulsion of their owner.

If bees are transferred from the old box hive, or from any other to the Vermont Hive, except su desc ibed in the foregoing remarks, it should be done immediately before, or for hwith after the be done immediately before, or for hwith after the in the right stage, and cutting, grinding and second swarm has left the hive. Then both old boiling were commenced, and continued with and young should be colonized togather. If the little, intermission until the whole was com-operation is performed before first swarming, their owner will be suce to lose one swarm in the watton destruction of eggs, lava and claysalizes, and it in the field to strip the leaves or blades, and it is done after the first swarm leaves, before a Queen cut off the tops as first as the stocks were is heard, he will get the bees without a Queen, because the old Qieen leaves the kive with the first swarm, and another is not usually hatched source than seven, eight, or nine days after fi st swarming and if transferring is delayed until the awarming season is through; the bees will not make a sufficient quantity of comb to cluster in; nor honey enough to sustain them through the following winter.

I would not be understood to approve of transferring from the old box until the combs are so old as to produce dwarfs

To be Continued. 000

SUGAR, BY MARCUS ADAMS, ESQ., OGDEN, MONROE CO.

Our readers have been already informed, that a premium of \$100 was award. ed by the State Agricultural Society to and if the batch was larger, would olten ex-Marcus Adams, of this county, for experiments in the manufacture of sugar from corn stalks. This subject is of so much general interest, that we copy from the recent vol. of Transactions, with slight and ends, inpped and rivetted at the corners, five abridgement, Mr. Adams full report of his experiments, with the important suggestions and inferences deduced therefrom :-

Raising the Corn .- One acre of ground was selected of a sandy loam, cultivated last year to ruta-baga; this was manured with thirty loads of the best stable manure, well mixed in the soil by ploughing and harrowing Corn planted the 13th of May, with eight-rowed northern corn; the rows three feet apart one way, and hills eighteen inches the other, with from six to eight strals in a hill. Corn came up fine and was plastered the 31st May; heed the first time the 9th and 10th of June, the second time 24th June. Cultivator run through it three times. The corn began to tassel the 18th of July, and was in ful tassel the first of August.

Up to this time the crop had looked uncom monly well, but from the 1st of August a severe drought commenced, and continued some spots where the corn had grown more luxurantly, withered and dried up; other parts of the field suffered less, so that on the whole there was some more than half of a good crop, or what there would have been if the season had continued favorable.

Cutting, Grinding and Boiling.-Cut the first stalks, and made the first experiment at grinding and boiling, the 25th of August. The statks at this time were quite green, but The statks at this time were quite 8, and ap-the produce was quite satisfactory, and ap-the produce was quite for crystalizing. The inice was very abundant, of a recensh color, very tich thick and heavy, yet retaining al

the flavor of the corn stalk, until after cleans ing and boiling.

August 30th, made the second batch. This was boiled in a shallow sheet-iron pan, clari fied and strained according to the directions given in Mr. Ellsworth's report. From this batch was taken the specimen of sugar ex-tilibited to the Committee at the State Fair in Rochester.

Other experiments were made the 4th and 7th of September.

The object of these successive experiments was mainly to determine at what time the saccharine matter was sufficiently matured to make crystallized sugar.

On the 11th September the stalks sppcared wanted for use, this labour, was generally performed by boys. The cornfield being at a little distance from the pull, the horse used for grinding was put before a light wagon, driven to the field, the stalks were then cut and placed upon the wagon, (taking care to keep them straight and in order.) driven to the mill and ground without delay. A load of this kind in a light wagon, with lumber box, will make a batch of from fiftcen to twenty gallons; this would be ground in about the ty minutes. Lime water was mixed with the junce while it was conning from the mill the junce is then strained through a flaund The juice is then strained through a flannel EXPERIMENTS IN THE MANU-FACTURE OF CORN STALK for a few minutes. The syrup is then re moved from the fire, and again passed through the flannel strainer, when the boiling is finish ed as rapidly as possible.

This process from the cutting of the stalk to taking the sugar from the fire, could not

The Boiler - The boiler or pan, 1 made of a sheet of Russian Iron, turned up at the sides would hold about twenty-five gallons, five and a hall inches deep, but from filteen to twenty gallons is as much as would bod to advantage. This pair is placed upon an arch of brick, so that the firecomes in contact with our the bottom only the bottom.

Mill .- To construct this was a matter of much more difficulty. Some drawings and descriptions are given by Mr. Ellsworth, but little more could be known from them than that there must be three rollers, so placed and put in motion that the stalks in passing between them should receive two crushings.

To plan and construct a mill with the proper dimensions and with the trength required, so that the work of crushing the stalks should be performed with certainty and desnatch, was no easy task. I flatter myself that I have in this been tolerably successful. The rollers and iron work, patterns, &c., for my mill, were made by A. J. Langworthy, of Roche-ter, at a cost of sixty five dollars. The whole weight of iron is about nine hundred pounds.

About one half of the mill is in the horsepower. The iron rollers being placed horizontal, it was necessary to have a horse-power wheel and gearing in order to give them mo-tion. If the more simple, and it would seem

it first view, less expensive forms, given in Mr. Ellswsorth's report had been adorted, placing the collers perpendicular, the horse passing around them, the rollers must have been of large diameter in order to take through the length of a corn stalk at one re volution of the bore. These large rollers, cornstalk, as for instance, when it will flake when made (f i.on, would have been very off, breaking short, hom a dupper or suck-or expensive, and probably not work as fast as string out between the thumb and finger, the small ones I use, giving them a quicker from half an inch to an inch in length, is per-

motion by gearing. In my mill the circum-ference of the rollers has such a proportion to their motion that their velocity is coual to about one sixth the velocity of the horse; or, in other words, a corn-stalk six feet long, will pass through between the rollers in the same time that the horse will walk thirty-six feet. The grinding is a beautiful operation, the amount of juice contained in the stulk is sur-prising to every one. The stalks in passing through the mill are crushed very fine, and the juice entirely separated from them by the pre-sure of the rollers.

Clarifying .- This has been to me a difficult and to some extent an unsuccersful operation. All the various methods recommended by different persons who have made some experiments on constalk sugar, and all that, my own experience in clarifying maple sugar coul i suggest, failed of producing fully the desired effect. In all the failures which have been experienced to produce crystalized ugar, the cause should be sought here. Un-ปีกless the juice of cornstalks can be clarified, it is van to expect a pure attue of crystalized sugar. All the obstacles to the complete suc-cess of this enterprize are met at this point; but that they will be completely overcome, there cannot be the least doubt. Line water applied to the juice as soon as it comes from the millione gill to fifteen gallone, was thought to produce the best effect. But experiments were made with various other things, such as milk, eggs, charcoal, &c.; these were used separately but nothing appeared to raise the scum as well and render the juice as clear and well flavored as the lune water. One experiment was made by filtering the juice through sand and charcoal, this rendered it very transparent and improved the faste, but there are very many objections to this process -the length of time required for the operation is a sufficient one.

Straining.-This operation is performed on before and after clarifying. The stramer both before and after clarifying. The strainer used was a square yard of good new flamel, of fine texture; cogreat is the amount of nu-cilage, or very minute particles of the con-stalk contained in the juice, that the strainer and if the batch was larger, would often ex- pair contained in the joint, time the transcence of twice in day, from which one hundred pounds of sugar straining a batch. The second time straining were produced. hot, as the hands have to be u-ed bi forcing it through the cloth. As knewledge and experience is gained on the subject of clarifying, the straining will be dispensed with, except to pass the juice through a coarse strainer to remave some of the larger impurities. Some method will be discovered by which all this foreign matter will be removed in the operation of skunming.

Boiling.—This operation requires care and closeattention, particularly when about ready to skim, and when the juice is concentrated to about the point desired. The more rapidly this operation is performed, the more perfect will be the crystalization. But, however necessary it may be, it is scarcely possible, with any apparatus that I have any knowledge of, to perform the whole labour of cutting, grinding, straining, skimming, and boiling, in the short space of one hour, as recommended by Professor Mapes, of New York. If this is ever done, it must be in very small quantities, or some very improved include must be adopted.

In boiling as soon as the scum begins to rice, the fire must be regulated with care, that time may be ind for removing the scum before it shall be builed in. If the operation of boiling and skimming be well performed, about one gallon of thick heavy scum will be obtained from a batch of fificen gallone. The syrup, when it becomes thick and nearly done, has a very beautiful appearance, in every respect equaling the best of maple syrup. To boil to the crystalizing point, (which is a very uncertain one.) requires considerable care and discrimination. The same tests that are used for make syrup are equally applicable to cornstalk, as for instance, when it will flake off, breaking short, hom a dupper or suck-or

haps the safest test. Very great care is ne cessary here, that it be brought to the right point and no more: and also in managing the fire, as a little blaze, or too strong a heat is most sure to scorch, and this is fatal to crystallization.

Crystallization.-Difficulty has been found here by all that have made experiments with constalk sugar, but perhaps every one has obtained a sufficient quantity that was well grained to satisfy them, that the difficulty was somewhere in the process of manufacture.

From recent observation I am inclined to From recent observation I am inclined to think that I have kept my sugar in too cold a place. Two small parcels, left partly by accident where they received the warnth of a fire, were found well grained. But there is another difficulty after it is well crystalized, to make the molasses separate, or drain, as it is called : although the crystal appears to be as fine as was ever formed, still the molasses will not separate by any common trachads will not separate by any common methods used for maple sugar. As yet 1 have not been able to procure any better specimen than that exhibited at the State Fair.

#### Amount from the Acre.

Although the quantity of stalks was so much diminished by the drought, yet six hundred pounds were obtained; this it should be understood, is weighed when taken from the fire and before graining has commenced. If it were all well grained and the molasses reparated, the weight of sugar would probably not be more than five hundred, and molasses one hundred.

In order morefully to determine the amount that might be produced from an acre of good corn, I measured two square rods of the best corn I had: the stalks were then cut, and their weight was 195 pounds; after grinding, the juice weighed sixty-nine pounds and measured nine gallons; from this 1 obtained twelve and a hall pounds of sugar. By this it would appear, that had the whole agre been test, one thousand pounds would have been the produce. And it would seem that this must be a safe calculation as the stocks on the two rods were not as large as would be grown in a good secson.

An equal amount by weight of large stalks of rank growth, and small ones that were grown thick, were ground separately, but as no material difference was found in the produce, my opinion is that the corn should be cultivated so thick that no ears will be preduced the statement of the statement produced.

[Here follows a list of items, which we omit, showing the expense of raising one acre of corn stalks, including rent of land, to te \$19 52.]

There is no part of the business that is so tedious as plucking the cars, stripping the leaves and cutting off the tassel. A part of this labor was performed for the fodder that might be obtained from it, but it was not suffi-cient to pay; as the labor of plucking the cars was performed for this consideration, I am unable to say what it would cost; but this much is certain, it is needless for the most much is certain, it is needless for the most part, as no ears of any amount need be raised, if the corn is sufficiently thick. From the best estimate that I can make of the expense of stripping leaves and cutting the tassel. I think that a smart hand would perform the work on an acre-in six days, or for \$4 50; making the whole expense up to the cutting of the stalk \$24 02.

It is somewhat difficult to come at the expense I was at in manufacturing the acre of stalks into sugar, so inuch was done by way of experiment. But as one hundred pounds were made one day. I shall take that as my guide, and call it a day's work for two han 's to make one hundred weight.

The amount above brought down.... To twelve days work making sugar, at 6s. per diem. To use of horse and wagen 6 days at 3s 9 00

2 25

The whole expense of cultivating the crop, and manufacturing the 690 \$36 40 Or a fraction more than six cents per pound

Some credit may be given for fodder, as a large amount of leaves or blades might be saved with a little extra labor while stripping them. The stalks, after being ground, are worth some, thing, horses and cattle eat them very greedily when they are fresh from the mill.

#### Remarks and Suggestions by way of Recapitulation.

If good crystalized sugar of pleasant flavor shall be produced from the cornstalk, I see no good reason why its manufacture shall not become as universal as the raising of corn. Every neighborhood can as casily be supplied with its apparatus to make sugar as to make cider.

2. Corn should be grown so thick as to pro-Acce no ears. Some variety of cont that grows very large, like the "Ohio" or "Rocky Mountain" might be best; this latter is well adopted in some respects, as it is very little in-clined to ears or leaves; cutting, the tassel will not prevent earing, unless they are all cut and kept cut. The cutting of the stalk may com-mence as soon as the tasset is tipe. If the weather is warm, but if cool, or early in the morning, a lit'le delay is not thought to be iniurious.

3. Lime water is perhaps the best for clarifying of any thing yet discovered; but some agent that will more effectually cleause from all delo-terious or foreign matter, is necessary. Science, with persevering experiment will no doubt produce this result.

4. The less time occupied in boiling, the more perfect is crystal zation. This is true of the good as the two rods submitted to the male juce, and probably more so of the corn-t, one thousand pounds would have been stalk. Foboil to advantage, two pans should be provided.

> 5. Any man of ordinary ingenuity, can make a pan in two hours, with no tools but cold chisel, punch, hammer, and six cents worth of rivets.

> 6. I make no doubt that a mill with wooden b. J make no coupt that a mill wild wooden rollers would answer a good purpose for a small operation, and small operations are what are wanted; let no man go into this business largely until there is more knowledge on the subject. A simple mill with two rollers, that might be built for five dollars, would crush the stalk and save meet of the who. No concurbable can be use most of the juice. No cog-wheels can be necessary ; for if you turn one the other must go. When experience has taught how to clarify, so that we may be sure of a good criticle, then will be the time for more perfect and expensive machinery.

> 7. If the result of this enterprise depended on the amount of saccharine matter contained in the cornstalk, its success would be certain. Es-Estimates that have been made of the amount that might be made from an acre, have probably never been too high. Improvements in cultiva-tion, and in finding the variety of corn best adapted, will no doubt greatly exceed these ostimates.

8. The expense, as compared with maple, must be much in favor of cornstalk. Of the expense of growing an acre of cornstalks, every farmer may judge correctly; then com-pare the amount of fuel, the amount produced in a day, the expense of fixtures, and it is all vasily in favor of the corn sizik. Only times stretch their noses out on the ground let the cornstalk sugar have the delicious flavor and around by their side, as if in severe pain, and the beautiful crystalization of the improved This is frequently occasioned by an involation

and the beautiful crystalization of the improved [This is frequently occasioned by an involation [maple, and no longer will that pride of the forest of a part of the intestine within another, called, be hacked and bored "with wicked hands," to when occuring in the human subject, inter-lobtain its sap. [Susception Immediate relief is afforded, when May we not hope that Mr. Ellsworth's forth-this last is the case, by lifting the animal by coming report will throw much light on the the hind legs, and shaking a few times, when subject to The collected experience of all that the pain disappears.—American Agriculturist.

... \$24 02 have been engaged in the business the past sea son, will soon be lad before Congress and the people. If Professor J. I. Mapes, shall fulfil his pledge made in the lastfreport, some scientific and practical information will no doubt be the 1 12 result.

[We shall give some extracts from Mr. Eilsworth's Report in our next.]

With these remarks I submit this report. I have endeavoured to give a faithful and full ac-count of my experiment. I am aware, that on some parts of this business, I cannot speak as favorably as might be desired; but for myself. I have no fear of the result of the enterprise. I would beg leave to suggest, that a liberal pre-mum be offered next year, for a given amount of cornstalk sugar of the best quality. This might sumulate, not only a greater amount, but more careful experiment.

#### TO PRESERVE TOMATOES.

Messrs. Editors,-As I am very fond of tomatoes, and have a way of preserving them to use, when the season for them is over, a way which I have never seen proposed, although others may have heard of it, I have concluded to send it to you, that you may publish it if you think proper :-

Dip the ripe tomatoes in scalding water, prel them, and divide them into two, or if very thick through, three slices, lay them on plates and put them into the oven after the bread is drawn; if a good oven, by the time it is cool, or in 48 hours, they will be perfectly dried; put them into paper bags and keep in a dry place; when wanted for use, dip-them into cold water and lay them on a dish to swell, and in a mince or stew, they are almost equal to the fresh fruit. If you wish to make tomato sauce, add a little water to cook them They are very good to est out of hand in the in. dry state.

A FEMALE READER. Brooklyn, May 6, 1844.

#### PRESERVING EGGS.

I have just read the mode of preserving eggs in the last number of the Cultivator, and a lady at my elbow, for whom I have the highest esteem, informs me that she preserves them as follows, and has never taken up a bad egg, after keeping them all winter :-

Put a layer of salt in the bottom of a jar, and suck the eggs into the salt, point downwards, till a layer of eggs is made, when more sult is put in, I know the mode to be a good one.

#### 206 WEAK EYES.

Wash the eyes frequently in cold water if they are in the least inclined to weakness.

Make a wash by pouring water over a jar full of rose leaves; let it stand all night, and then strain the water. It will be found excellent for the eyes, and should be used frequently.

A noultice made of rose leaves is good for a stra upon the cyc-lids.

If the eyes are very weak, holl a handful of freshly gathered saled in a pint of water, strain it, and apply the liquor to the cycs at intervals. It will be found very soothing. A poultice of boiled saled leaves will also relieve zevero pain in the oyes.-Selected.

# OF PATENTS.

We are under high obligations to the Hon. II. L. Elsworth, Commissioner of Patents, Washington, United States, for his admirable Report for 1843, contain-ing 340 pages of closely-printed matter. The Report in question contains a vast anguished for the richness of their milk, in one amount of Agricultural Information, of the most valuable character. For the quarts, benefit of our renders, we copy the following practical remarks upon the productions of the Dairy :-

The productions of the Dairy are of great value, and may become still more so as their exvalue, and may become sum more so as non-ou-portation is extend. Science has been directed to the annalysis of milk, and principles having an important bearing on the success of this pur suit have been developed. Thus Dr. Playfair says, respecting a series of experiments, that the milk of the evening contained 3.7 per cant. of butter, and, of the following morning 5.6 per cent. The deficiency in the first observation is referred to a greater consumption of butter, or its constituents, from respiratory oxidation during the day, when the animal was in the field, than during the night when it was at rest in the stall. When confined during the day and fed time. The mixture of milk in any degree with with after grass in a shed, the proportion of the butter is sure to produce frowyness, or some butter rose to 5.1 per cent. When fed with unpleasent tasts to the butter; and the entire hay, the butter was 3 9 and 4.6 per cent ; when fed with portions of potatoes, hay and brau flour, the butter was 6.7 and 4.9 per cent. ; when with hay and potatoes, 4.6 and 4.9 per cent.

From the account of the experiments of Professor Trail, contained in the Transactions of the Highland Agricultural Society, are derived the following results :-

- 1. That the addition of some cold water facilitates the process, or the separation of butter, especially when the cream is thick and the weather hot.
- 8. That cream alone is more easily churned than a mixture of cream and milk.
- 3. That butter produced from sweet cream has the finest flavor when iresh, and appears to keep longest without acquiring raucidity, but the buttermilk so obtained is poor, and small in quantity.
- 4. That the scalding of the cream, according to the Devonshire method, yields the largest immediate use is agreeable to the the palate from the heating.
- 5. That churning the milk and cream together, after they have become slightly acid, seems to be the most economical process, on the whole, because it yields a large quantity of excellent butter, and the buttermilk of good quality.
- 6. That the keeping of butter in a sound state appears to depend on being obtained as free from uncombined albumen or casein and

take out could y possesses when the initial initial initial, includes, are carried in the instance of the initial initiali initial initial initial initial ini pasturage, and having also two or three quarts, hall of the body, from the shoulders to the tol. perturage, and having also two or uncer quarts, that or use boars from the shounders to the tork, the front, one reads into the center or in a nonzero of meal per day, on being milked three times in to prevent deserve from the cold. They are When the milking is going on, a woman stands the day yielded milk sufficient for 18 lbs. of pastured about therry weeks. Hay is the r'm the cellar with supply-purso placed under butter in a week; also, another which gave 16 common food in winter, though rape coke and the ord of dus bonzontal tube, which, as fast as lbs. of butter in a week, besides supplying all browers' frames are sometimes added. The filled, she sets away on the cellar buttor. Here family of four persons with with a gutter due to the to a source are complemently hold with a study to the board a source is the study. family of our persons with milk; another also *ibness*, or cow-houses, are generally lofty, any, the milk stands till loppered and source, as it is is mentioned, which gave 253 lbs yiering 12 paved with large square bricks, and kept perfect is all to make more butter in this state it an any lbs. 6 oz. of butter. A cow in Wheeling, Vir thy clean. The roof is about 10 feet high, other, of a better quality. In this state it is gain, is likewise mentioned as having yielded There are no rack or mangers, but the food is poured, cream and all, into charns which hold a for 16 days, in May and June, on being milked placed in gutters, zlways clean near their heads. Darrel cach. If the weather be cool, and

REPORT OF THE COMMISSIONERS three times per day, 314 quarts of milk for two weeks; the butter made amounted to 144 lbs weeks; the butter made amounted to 144 hbs por week. Another, still, is mentioned in the State of Now York, which, in 21 days, gave 65½ hbs. of butter, or at the rate of 1 hb. for 5 quarts of milk. The average of 65 remarkable cows, menuoned by Mr. Colman m his report, 10 outs to remark the terms of butter at the state. 18 10 quarts for a pound of butter; and several cows which have been formerty noticed as dis case, gave milk which only yieled 1 lb. of butter for 18 quarts; and in another, 1 lb. for 10

> In the appendix No. 18, will be found a new method of obtaining cream from milk, by a process said to be well known in Devonshire, England, in which vessels formed of zinc plates are used ; and the effect in the production of butter is stated to be 40 oz. to 4 gallons of milk -being an increase of cream 121 per cent., and of butter upwards of 11 per cent.

Much is said to depend on the proper beating or working of butter, by which it may be depriv ed of its buttermilk ; rubbing with the ladie is not sufficient. In an English publication of high authority, it is said that "the great point in making good butter, and that which will keep, is the freeing it from buttermilk ; and, it everything else is well done, if this point is overlooked, good butter is imposible for any length of singes of famos suck with howers of the pol-tune. The mixture of milk in any degree with 174 ourses, or Dutch nound. Howers of the add for time. freedom from this constitutes the grand secret of making good butter. There are many who think washing butter compatible with retaining the rich flavor; but if the water is cold and pure it is scarcely possible anything should be washed away, the buttermilk (which destroys the flavor of all butter) excepted. Besides, the best butter in the world, and that which in all markets commands the best price, (viz. Dutch butter,) is invariably made in this way ; and when the example has been followed by others, it has rarely failed of success. Perfectly free from the substance that causes it to assume the putrid frowy taste of bad butter, it may be kept with almost as much ease as tallow : solidity in packing, clean sweet vessels, and a low temperature, will ensure its keeping for any reasonable time. Let no one expect good how temperature, will ensure the keeping for any reasonable time. Let no one expect good butter, however, so long as coarse impure salt is used, or a particle of the buttermilk is re-manung in u."

The allusion above made to the Dutch butter, quantity of butter, which, if intended for may be appropriate'y followed with some account of the mode of butter making in Holland. immediate use is agreeable to the the palate could of the mode of buffer making in Holdal3, and readily saleable; but if intended to be which is found in one of the ablest of our agri-salted, is most liable to acquire, by keeping, cultural journals. It is said that, in 1830, king arancid flavor. The process of scalding is lend imported no less then 116,233 cwt. of troublesome, and the milk after the removal Dutch butter, and 167.917 cwt. of Dutch cheese, of the cream is poor, and often would be in 1835, 106,776 cwt. of butter came from unsaleable, from the taste it has acquired Holland. It is a singular fact, that the English form the begins. consume more chesse than butter: thus, the consumption of cherse, in London alone, 18 stated to be 33,000.000 lbs., while that of butter is but 19,000,000 lbs. In France, the opposite proportion prevails. The pastures of Holland, proportion prevails. The pastures of Holland, it is said, ' he low and flat ; and as the water it is shid, ' he low and that; and as the water in the canals is always near the top, the soil must be most." The ground, instead of being ploughed up, "is kept in good condition by top dressings, consisting chiefly of the solid, and especially liquid manures collected in the cowwater as it can be, by means of washing and houses, mixed with the scrapings of the small appropriated for for working the butter when taken from the innals." The first year after such dressing, the brought up to the churn. That our conutry possesses some fine mile handers, the wise, "are careful in the scleption of is 50 feet from the

Gutters in the rear serve to carry off the urbas and dung, and these gutters are also kept clean. The cows are always milked by men, and the butter and cheese made by women. Ninety cows are managed by nine men and two women. I'we women are considered enough for any dairy."

Three kinds of butter are made : grass butter, when the cows are at grass; whey butter, from the whey of sweet milk cheese ; and hay butter? made in winter. The method of making grass butter is thus described :---

"The cows being thoroughly milked, the pitchers of milk are put into coolers. What the cream has gathered and soured, if there is enough, they churn overy 24 hears, and the churn being half filled with sour cream. A hitle hot or boiling water is added in winter, so give the whole the requised heat : and, in very warm weather, the milk is first cooled in the coolers. In small danter, the milk is sometimes churned, when soured, with ut separating the cremm. The butter, immediately after being taken out of the churn, is put into a shallow tub, and carefully washed with pure cold water. It is then worked with a slight sprinkling of fine salt whicher for sminedivie use or the byrrel. When the cows have been three weeks at grass. the butter is delicious, and is made in faneiful shapes of lambs stuck with flowers of the polyanting, and selfs as high as 70 or 80 cents ino 174 ounces, or Dutch pound. If intended for barreling, the butter is worked up twice or thrice a day with soft fine salt for 3 days in a flat tub; there being about 2 pounds of this salt allowed for 14 pounds of butter. The butter is then hard packed by thin layers into casks, which casks are previously seasoned and cleaned. They are always of oak, well smoothed inside. Before being used they are allowed to stand three or four days filled with some whey, thereafter carefully washed out and dried. Each cow, after being sume time at grass, yielded about one Dutch pound of butter per day.

Two points in this process are most im noriant:

" 1st. No salt is used but what is incorporated with and disolved in the butter, which is necessary to give it flavor : 2nd. The butter intended for keeping is worked from six to ten times, to incorporate the salt and to separate from it every particle of liquid, which, if left in it, would induce rancidity."

The hay butter undergoes a like process.

The schey butter is made by allowing the whey to stand three days or a week "after being separated from the curd, when the cream is skinimed off or the whey itself put into the churn, and the butter is formed in about an hour. By this process, in winter one pound of butter is obtained from each cow in a week : or, in sum-mer, one pound and a half." The relative prices are said to be for grass butter 17 conts, for hay butter 13 cents, and for whey butter 12 cents per pound.

The Goshen butter in the State of New York, is celebrated all over the country, and the ful-towing account is given of one of the most celebrated of datries there :-

The cows are "regularly salled and kept in good pasture during the summer ; in the winter, each cow is kept in a stall with a separate door to it, in a building two sides of a square round a large yard; the upper story of the building is appropriated for folder and hay. The cows are brought up to the yard, night and morning, and regularly milked. The outer paing of the yard is 50 feet from the house : here opposite the the fro-t, and leads into the cellar of the house.

a can is filed with hot water, and this is thet, as it appears, the standing contracts for bound in the milk in the churn, and stirred butter, in our navy, that will keep at sea, at twenty-six cents per pound, and for cheese degrees." Water-power is preferred for churn-twenty cents per pound. It is now much the for the standard in the churn and store the standard the placea in the mink in the churn, and shirred butter, in our navy, that will keep at sea, at about till it reaches a temperature of 55 to 60 twenty-six cents per pound, and for checse degrees." Water-power is preferred for churn-ing to any other, as it is more regular. "When good daries in Orange county, and keeps per the butter has come, the power is stopped, and a fective. An account of a mode of preparing butter the butter has come, the power is stopped, and a pump rigged into the churn; the handle of for shipping, by a merchant in one of the cities of which is attached to the power, and the butter. New England, corroborating the above, may be milk pumped into a reservoir just outside of the cellar, standing on a level with the ground: from this the buttermilk is conducted by a un pipe of about 100 feet to another reservoir close by the piggery, from which it is dipped out in buckets, and fed to the pigs. After being churned, the butter is thoroughly washed off with cold water: if this be not done, it is difficult to get the buttermilk clean out of it. As soon as cool and solid, the butter is taken on a marble or smooth stone table, properly solted with clean fine salt, and worked over thorough ly with a wooden ladle or spatula-the hand nover allowed to touch the butter, as, from its heat, it softens it." After being thoroughly worked, the butter is packed in firkins of season ed white oak. The firkin, previous to packing, is well washed with cold water, and then rubbed all round with salt, to prevent the butter from adhering to its sides. It is put down in layers as churned, 3 or 4 inches deep.

When the firkin is filled, a linen cloth is placed over the butter; on this, half an inch of a guent turning over the seeds, which are some-selt; to which is added a little water, to form a turner, the seeds, which are some-times thus carried forth into the fields with the brine. The cellar is considered very important; it should be seven feet deep-eighteen inches of which, at the top, should be allowed for venti-Inton: the windows to be covered with very fine wire gauze, to let in the air and keep out the insects: the walls to be of stone and pointed, the floor of slabs.

The best temperature at which butter may be procured from cream, as appears by the experiments of Dr. Barclay and Mr. Allen, 19 in commencing churning from fifty to fitty-five degrees, and at no time ought it to exceed sixty. five degrees ; while if it falls below fifty degrees. it wilt be more difficult and labourous to obtain the butter. It was found by Mr. Ballantyne that the greatest quantity of buttor is obtained at sixty, and the best quality at fifty five degrees in the churn. just before it came. A mode of in the churn, just before it came. A mode of working butter is said to be practised in some parts of France, which makes it exceedingly compact and hard. A trough is prepared of re-quisite width. Into it is placed a wheel, which comes within the sixteenth of an inch of the bottom, and turning on a erank. The space in the trough is filled. At one end, which is left open, the butter and brine are pressed in ; the other end, being nearly closed, the wheel made to revolve, and the butter comes out at the other, thoroughly salted, and free from butterin plates of the sixteenth of an inch kxess. Great importance is attached to milk. in thickness. Groat importance is attached to the kind of salt used in preparing butter for the market. Some of the kinds of salt have an market. Some of the butter, to prevent its keeping.

It has been discovered that most kinds of wood contain considerable quantities of pyroligneous acid, which decomposes salt in butter kept in auch tubs. The lined, or bass wood, is the only one which, as appears by careful exportment, is free from it; others, it is stated, may be freed from it, and thus rendered suitable, by boiling three or four hours, well pressed under unter. Much importance has always been attached to the preparing of builer, so that it will keep on beard of ships at sea and in warm climates. A simple process is now practised, which is said to be effectual for this purpose; which is. to have good butter well churned, and worked and packed bard and light in keys of seasoned white is about two thousand five hundred quaris per oak; the head is then put in, leaving a small annum; and it is calculated that every hundred hole into which brine is poured to fill up the pounds of milk will give three and aquarter lbs. vacant space; and of so much importance is of butter and six pounds of fresh cheese, four-

found in appendix No. 19.

In the making of the best butter, rich pastures are considered very desirable. A sufficient diversity of grasses mixed together, is useful. A suficient but there are some weeds which do great mjury to the milk. The species of ranunculus known by the name of the Buttercup is said to have effected great injury to the butter in parts of England. An epidemic has also prevailed among cattle in England, which has been traced to the same cause. It it said to be now spread-ing through this country. The plant is detern ed as being of an acrid poisonous nature, and, by various experiments, it has been proved to be very fatal to animals; cattle will generally avoid it, but they sometimes do not. Those which are confined to limited pastures, are more exposed to it ; while those which have a wider range, and can make their choice of plants, suffer less. Greater care should be token to eradicate it from the fields; and by the use of lime among the materials of con-post, and frealso of the land may be necessary ; but, at ali events, the buttercup, if possible, should be rooted out. Other weeds, too, of a similar nature, and likely to injure the milk of cows, should be taken from the pasture on which they leed; the effecting this object will be more then repaid by the benefit derived from the purer milk and more excellent butter which will be obtained.

cheese to deteriorate.

Mr. G. Davis, of New York, to whose enteruse in visiting the cheese-making districts of Holland much is due, and who supplies the United States navy with cheese which will keep on ship board and in warm climates, by which thousands of dollars are saved to the country, describes the cheese thus made under the inspection of a first-rate cheese-maker from Hollaud, as The globular, weight about four pounds each. curd is worked by hand until it is put into other moulds, and salied-that is a small quantity is put upon the end of the cheese, and changed every fiftcen days; then it goes through a pro cess of salting in warm salt whoy for foriy-eight hours and is then taken out and wiped dry with a cloth : then put into other moulds for six weeks to dry and cure; after it becomes quite day and hard, it is put on shelves to cure, so that it may be cased up. The loss in drying out is very great, as the Government receives them half yearly in each year. The expence of making is said to be much greater than of the common kind of cheese, and the loss in drying it four times as much ; but the certainty of their keeping has been fairly tested, and they are stated to keep equal to the best Holland cheese. Of the flat kind formerly used in the navy, more then one-half, it is said, proved to be unfit for use, and was thrown overboard.

The Dutch are said to be remarkably par-ticular as to the quantity and quality of the salt they use; and this is thought the principal cause of the sweet and delicious flavor of their butter, which, though well flavored, hardly tastes of the salt, or at all acrid. The average quantity of mulk from Holstoin cows in Europe vacant space, and of so much importance is of butter and six pounds of iredi cheese, iour- these implements may cost more at inst than com-it deemed, to prevent any bad taste, that the teen pounds of buttermilk and seventy-six and plugs for the hole must not be made of cedar or three quarter pounds of whey, where cheese is last. Get the best implements to be had, even if pine, but of cypress or bass wood, as otherwise made Fifteen quarts of milk is, then, considered it would be injuced. After which, these kegs a fair average for a pound of batter, though will thus be able to perform more work in a better are placed in a hogshead well filled with brine of sonct times the milk is so rich that twelve quarts i manner, besidesaving much labor, and preventing fall solution, that will bear an 'egg, which is then headed up tight and close. The importance one handred pounds of butter, and one hundred lace."

and fifty pounds of cheess por annum, to each cow, is a fair product.

A great yield of butter and cheese is mentioned in a late agricultural journal as having been obtained in Oneida county. From twenty cows obtained in Onoida county. From twenty cows (commencing 15th of April, and ending the 1st of December) were made ten thousand poinds of cheese and one thousand pounds of butter— being an average of five hundred pounds of cheese and fifty pounds of butter from each cow. They were fed on whey from the dairy and two quarts of oatmeal per day.

# PRESERVATION OF CORN FROM FROST.

Mrs. S. N. Hawes, of Shoreham, Vt., relates a remarkable case of the exemption of a piece of coin from frost, which be thinks is to be auributed to the plentiful use of long born-yard manure, in connexion with the stalks of a crop of corn which had grown on the ground the year before-the whole having been plowed into the soil. He says;-"I plowed deep, strowing the old crop of stalks

in the furrows and covering the whole entire. had a rank and extra growth of a large kind, which required a longer time to mature; and some of the last days of August or first of September. the earliest cars had commenced hardening, when we had one of the severest frosts I ever witnessed at that season of the year. I had much anxiety respecting my coin crop, which I visited early in the morning; but the cracking of the frozen grass at every footstep, prepared my mind to behold it in ruins. Yet determined to know the worst, I pressed on, monated the feace, which surrounded it, and to my sarprise, not a particle of frost was visible upon it ! I looked around upon every side; all bore a wintry aspect. I looked around again upon the crop before me; it bors the appearance The bone-dust manure used on certain pas-tures in England, in which the soil is not adapted to this kind of manure, is said to have caused the was glad to retreat and before the former. was glad to retreat, and before I could effect it, was completely drenched I again remounted the fence where I could take a view of every side; it was alike surrounded by a heavy frost."

"As I stood pondering upon the apparent phe-nomenon, the fact flashed upon my mind, that the process of decomposition from the extra quantity of long manure, particularly the old crop of stalks, was still going on to that degree that the heat completoyy counteracted the action of the frost. Near the middle of the day (which was extremely warm and clear,) I travelled a mile in length, visiting every field on the same level with my own, and all, without distinction, were entirely destroyed. Mine remained uniojured, and yielded an abundant crop of remarkable sound, ripe corn."-Albany Cultivator.

#### FARMING CAPITAL.

From a communication by Mr. L. Durand, we make the following extracts :

" I think it correct to say, that a liberal expenditure of capital in farming, will ultimately pay better than when laid out in any other business: The difference between capital laid out in farming, and that laid out in manufacturing, is, that all which is expended in the latter beyond the actual profits of the goods manufactured, is a dead loss, while that which is laid out on the farm, under good management, causes it to improve and increase in value from year to year. In manufacturing, the interest on the capital may be received within six months or a year. In farming, it may not baso, but it will be sure to give its return in a series of years. Another item which has been much neglected by farmers, is that of purchasing good implements to carry on their farming operations. In this country, where labor is high, a farmer should obtain as many labor-saving imple-Although ments as can be used to advantage, these implements may cost more at first than com-

# MENT.

The importance of proceeding on correct principles in the rearing and feeding of live-stock, is now so generally admitted, as to require no illustration. With the teeder it is especially important that a disposition to ar rive at early maturity should be encouraged and secured, so far as the acceleration of this the country, showed that this was by much desirable property is within his reach. In this respect much has been done of late, but Ти much still remains to be done. Early matu-rity is not attainable without high feeding up interruptedly, from the birth of the animal-until they have attained to maturity , and the can only be attained where a superior system of cultivation is practised, as it is there only that a proper supply of food is available at every period of the season. In fertile district-the aid of cultivation is not necessary to poduce the required supply during the summer reason, as this is obtained from the pastures but even in these cases it is by no means rare to find stunted animals, resulting from the winter treatment. The firest cattle are not winter treatment. The hast cattle are not by any means universally found in the most fertile districts, especially when early matur-ty-one of the best tests of excellence-is taken into account ; so that improved culturation is not only followed by superior crops, but also by a superior description of live-stock; and in the mixed system of hu-handry of the United Kingdom, it must be recollected that by far the greater portion of the proceeds of the farm is obtained by natural products.

But, however desirable it may be to posa proper knowledge of the correct principles on the state and treatment of live stock should be founded, it is also important to be able to ascertain their value when ready for market, or to ascertain their progress while feeding. Experience and accurate observation are obviously the essential requisites for obtaining this knowledge; but it is to be kept in view that the opportunities of the farmer in this repect do not bear a comparison with those of the butcher, with whom he has to The latter has a never falling test, by deal. which he can try the accuracy of its cause Strictly speaking, the form of most annuals lations, in having the animals atterwards Strictly speaking, the form of most annuals killed and weighed; and thus from time to such as to cause the girth to be rather elip-time, he is enabled to modify his views, and theat than circular, but this departure from the time, he is enabled to modify his views, and theat than circular, but this departure from the time, he is enabled to modify his views, and which he can try the accuracy of his calcutunities which the farmer rarely or never possesses. Long experience, indeed, will ena-ble the farmer to form a tolerably correct es timate as to the value of his cattle when slaughtered; but even with the aid of this, it is still important to be able to test the correct ness of opinions thus founded. To the young and inexperienced farmer it is still more im-portant to be able to do so. This knowledge may be obtained by measurement, and easy calculation; or from tables constructed for the purpose, for the use of which the length and gith of the animal only are required.

The ascertaining of the weight of cattle by measurement is not a recent invention, tables for that purpose having been long in use. may not however, prove uninteresting to those who may not have turned their attention to the subject, to know on what data such cal-culations are founded. This will also, by explaining the whole process, enable the larmer to determine with more confidence the value which he should attach to the results thus obtained. Even in this case a certain amount of experience is necessary. It is ne cessary for instance, to know whether the animals are marketably fat or not, it is also necessary to be able to form an opmion as to the effects of any peculiarity of conformation in the animals, which might affect the results obtained by calculation. The kind of ani-mals, too, must be taken into account, the

OF CATTLE BY MEASURE. the remainder being usually considered as offal, including the Inde, tailow, and various other matters; and these, taken together, are computed to be equal in value to one of the quarters, or to one fifth of that whole annual. the proportion between the live and dead weight, is the primary object to ascertain in our catculations. This was long calculated at one-half the live weight, but sub-equent experiments on the more improved breeds of too mail a proportion, it being more currently represented by the fractional quantity '605 the weight of the entire animal being assum ed as 1. Having this datum, then, no difficulty is experienced in ascertaining the net weight from the gross weight; the latter being multiplied by '605 will give the result, in the same denomination in which the gios weight is given. By these means the appli-e ation of the steel yard or weighing-machine at once effects the object, and this apparatus is accordingly frequently employed by fimateur feeders to ascertain the progress of the different annuals while fattening, as well as their value before heing sold. In the case of experiments being made with the different kinds of food, their effects are easily tested in this manner; and even when only one descrip fion of food is consumed, the progress of the different animals is seen, when such as are not making a suitable return should be disposed

of without delay This method of calculating the value of cattle is simple, and, were a weighing ma-chine found on every farm, it would be all that could be desired, but as these useful ap-endages are not always available, the same object may be obtained by measurement. The dimensions required are the length from the point of the shoulder to the hindermost point of the rump, and the girth or circumfe-rence taken momediately behind the fore-legs. That these d mensions may be taken accu rately, the animal must be standing in a na tural position, in which case they bring the body into the form of a cylinder, the capacity or solid content of which iseasily ascertained and as in the former case, a certain proportion is found, from experience, to exist between the capacity thus obtained and the net weight all animals is, of course, taken into account in the formulæ by which the calculations are The length and circumference being made. then given, the rule to find the solid content is, to multiply the square of the circumference by the decimal, 07958, the area of a circle whose circumference is unity, and this pro-duct again multiplied by the length, will give the solid content in the same denomination in which the dimensions were taken, and being usually in feet and mehes, their result will be in cubic feet.

The capacity of the animal being ascertained, the next consideration is the estimati on of the proportion between it and the nett weight; and this is only obtained by actual experiment, as in the case before under consideration, in reference to ascertaining the nett weight from the live weight, as obtained by the use of the weighing-machine. Suppose an Ox measures 7 leet in girth, and 6 feet in length, the capacity is found in the foregoing rule as follows:-

7×7× 0795°×6=49×.07058×6=3 \$9942×6 53 39652, which is the number of cubic lect in the animal.

Now let it be further supposed that the weight of this Ox, when slaughtered, was 70 stones, which aber repeated trials, is found to be the weight consonant with these dunensions, then the weight per cubic toot is of course found by dividing the total weight by may, too, must be taken into account, the course found by dividing the total weight by lists formulæ on which the calculations are foun ded being strictly applicable to exen merely; divided by 23:30652, the quotient will be before so that in the case of bulls, or cows which have 2993,—the precise proportion by which such the calculations are usually estimated, so that unal for every cubic foot in the aminal, accertained also for every cubic foot in the aminal, accertained also ever al calculating the net weight of the in the quarters alone. The rule, therefore is boy.

ONASCERTAINING THE WEIGHT four quarters only is taken into consideration, to multiply the square of the girth by :07958, and the product thus obtained by the length, which gives the capacity in cubic feet, which multiplied by 2 993, the number of stones to a cubic foot of the animal, gives the weight in imperial stones, as required. It will be ob-served however, that the numbers 07958 and 2 993 are both constant multipliers in the ope-ration, so that they may be multiplied together, and their product only used, which will materially shorten the operation. Thus, 07058-2993-23318294, but the number 238 only may be taken, without incurring an appreciableerror. Hence the rule for as certaining the weight of an animal by measurement is to multiply the square of the girth by the length, and this product again by the deci-mai 233, which will give the weight of the quarters in imperial stones

Such is the method of calculating the weight of cattle by measurement, and such are the data on which it is founded. He be-fore observed, these calculations refer only to animals of the ordinary degree of fatness, 60 that in certain cases allowances must be made. In the case of animals very fat. perhaps one-eighteenth or one-twenticth should be added to the weight thus obtained ; and when below the ordinary state of fatness the same propor-tion should be deducted. A built from having more flesh upon the neck, should have probably one-twenty-filth added ; and in the case old milch cows, for obvious reasons, one-tenth or one twellth may be deducted: It will be apparent, however, that the precise amount of these additions and deductions is not sub-ject to rule. The weight of the quarters being ascertained, there yet remains the tal-low, hide, and other offal, to be taken into the animal. These or a certain portion of them, are allowed the butcher for his profit; but this is chiefly regulated by the custom of the place—a circumstance which, of course, the farmer will not fail to take into account.

The preceding observations have occupied more space than I originally intended, but I hope the minuteness of detail will be excused. and that they will not altogether be uninteresting to those who have not hitherto directed their attention to the subject -J. Sproule.

#### SPRING AND SUMMER BEER.

As yet I have seen nothing in your pages relative to making Beer. Therefore I will present a recipe, and if you think it worthy of a place in the Farmer, please insert :-

A handful of hops and some boughs of spruce boiled in 2 or 3 gallons of water. Put 3 quaris of molasses and 1 lb. of ginger in a cask that will hold 15 gallons, and pour the liquid in and ebake them well : then fillup with cold and warm water, so that when the cask is full it will be about blood warm. Then pour in one quart of good yeast, and shake it well together. It will be fit for use in about 12 hours.

Half of a small vial of essence of spruce may be used instead of bows, and should be put in with the molasses and ginger. I have made beer by this recipe for a number of years, and know it to be good .- Michigan Farmer.

#### YELLOW BUGS.

An intelligent friend, who declares that he has found out how to save his cucumbers, melons, squashes, &c., from the depredations of the yellow bugs, has described to us the following method, which he declares will be found effectual. It has reason to recommend it, and so we give it to our readers, and shall try it ouraelves :-

For each hill cut, say a doren alder sticks about a foot long, split one end and insert a tuft of sheep's wool finely spread out. Set these out around the hill so that the wool from one will just meet that from its next neighbor on the circle. The bugs will always alight on that before descending to the ground and the plant ; the wool entangles their legs and then they are unable to go forther. He says this hedge will also keep off the lutte black fleas. Try it-the cost is nothing-the labor hitle. - Drew's Plough-

#### A POTATOE DIGGER.

In answer to the inquiry of our corres-pondent "Viator," we give the following extract from the Report of the Committee or Agricultural Implements, at the late Fair of the American Institut :-

A Potatoo Diggor, exhibited fir a premium by Mr. A. C. Ketchum of Schonectady, N. Y. This machine consists of 2 parallel sides furnished with handles resembling those of a plough; they are about fifteen inches in width and two feet spart In front is an iron plate which is intended to penetrace the earth to a depth just below the poratoes required to be dug i behind this plate, near the bottom of the sides before described, are two pullies, one on each side; and on the upper edge of the sides, about three feet behind the others, are two more pullies, over which two endless chains revolve when the machine is in motion chains revolve when the machine is in motion These chains are connected by small iron rods, about two or two and a half inches apart, and parallel to each other. When this machine is put in motion, the earth with the potatoes is passed over the plate on to the parallel iron rods, through which the c ief part of the earth first falls, and then follow the potatoes. It is clear that this machine will not act advantageously in a tough, rigid, very wet soil. Your committee witnessed is operation in such a soil, and were not diann. its operation in such a soil, and were not disp-pointed at its partial success. Nevertheless they are unanimously convinced, that the pilnciples developed in this machine are such as to merit the enco ragoment of the Institute, on the ground that it will answer an excellent purpose in a light dry soil; of which Mr. Ketchum preserved a satis-factory certificate; and they have no doubt it may be improved so as to operate in other soils .- Albany Cultivator.

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

A Hint to Young Married Women. Never tell your own affairs to any old gossiping housewife. Let her appear ever so speciou nousewile. Let her appear ever so specious, so sincere, so candid; be sure to avoid her, and keep your own counsel: for the only reason she has for prying into your secrets, for insinuating herself into your confilence, is to learn that some error, some deformity exists in your family, on which she may feast with secret delight for a luxurious moment, and then share some of the choicest bits with her neighbours. Treasure this up, and act upon it, and it will save you years of mortification, if not of heart burning and sorrow.

#### CATTLE SHOW OF THE HOME DISTRICT AGRICULTTRAL SO-CIETY, UNDER THE PATRONAGE OF HIS EXCELLENCY THE GOVERNOR-GENERAL.

The Home District Agricultural Society will hold a GRAND AUTUMN FAIR AND CATTLE SHOW, at the St. Leger Race Course, adjoining the North-Western extremity of Toronto, commencing on the morning of the second Wednesday of October next. The first day will be appropriated to the examination of Live Stock, Dairy Produce, Root Crops, and Grain. The second day will be devoted to the examination and trial of Agricultural Implements and the inspection of articles of Domestic Manufacture, the reading of Original Essays, and the sale and exchange of stock, &c.

For the best Essay on the profession of Agri-culture as a Science, —A Gold Medal, to be worth £3 0 0. The Essay to be sent in to a Second best do do

committee to be appointed on the next regula day of the meeting of the District Society, t be held on the second Wednesday in Augus next.

Second best do .- A Silver Medal, to b worth £2 0 0.

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#### CATTLE.

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0	ROOT CROPS.
0	Best 3 Bushels of Potatoes 10 0
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Township of Toronto, May 30, 1844.

2 10 0 N.B. Application by Letter to be directed 1 5 0 to the Etobicoke Post-office.

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#### THE BRITISH AMERICAN CULTIVATOR.

THE BANK OF BRITISH NORTH AMERICA continue to grant Drafts, in Sums of any Amount that may be required, on the under-mentioned Towns in Ireland and Scotland, viz. :--

of Ireland, at Cork, Limerick, Clonmel. Londonderry. Sligo, Wexford, Belfast, Waterford. Galway Armagh. Athlone. Coleraine. Kilkenny, Ballina, Traloe, Youghal Enniskulten, Monaghan, Banbridge, Ballymena, Parsonstown. Downpatrick, Cavan, Lurgan, Omagh, Dungannon, Bandon, Ennis, Ballyshannon, Strabane, Dungaryan, Mallow, Cootehill, Kilrush, Skibbereen. Enniscorthy.

On the Provincial Bank On the National Bank of Scotland, at Aberdeen, Airdrie, Anstruther. Banff, Bathgate, Castle Douglas, Dalkeith, Dingwall, Dumfries, Dundee, Falkirk. Forres, Fort William, Galashiels, Grantown Hawick. Inverness. Inverary, Islay, Jedburgh, Kelso, Kırkaldy, Kirk wall. Langholm, Leith, Montrose, Nairn, Oban, Perth. Portree. Stirling, Stornoway, Stronness. Edinburgh, Glasgow

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

A. O. MEDLEY, Manager. April, 1844.

AND SCRIP .- WANTED a small Quantity. Apply to H. E. NICHOLLS, Toronto. April 18th, 1844.

Flax Sced. 1,000 BUSHELS WANTED, for which the highest Cash Price will be given, up to the 1st September, 1844. ROBERT LOVE, Druggist. Yonge Street, Toronto, April, 1844.

HENRY E. NICOLLS, NOTARY PUBLIC, CONVEYANCER AND LAND AGENT, &c.,

No. 4., Victoria Row, King Street, Toronto. DEEDS, MEMORIALS, AND PETITIONS drawn with neaturess and despatch. Titles so land searched and proved.

Mr. Nicolls having more good land than the Government, requests all Emigrants and others who intend buying either Wild Linds or improved Farms to give him a call. Lands purchased for persons at the Government Sales, located and money paid on the Deeds procured at a moderate charge

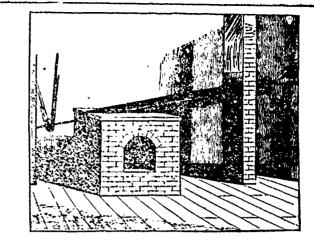
Laids claimed and prosecuted under the Heir and Fevisee Act, and Deeds taken out.

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

N. B .- On all Government Land business or mortgage, a fee of five shillings will be requiried before the business is taken in hand.

LAND SCRIP, AND BANK STOCK FOR SALE.

OF All Letters must be Post-paid. Toronto, March, 1844.



# **REVOLVING DRYING KILN**

THE Subscriber begs to inform the Millers, Merchants, and the Public generally, that he has, at considerable labor and expense, invented and completed a Machine for DRYING Wheat, Oats, Barley, Indian Corn, or any other Grain necessary to be dried before being manufactured : and he assures them, that it is the cheapest and most expeditious mode of Kiln Drying Grain now in use. This Machine will dry from thirty to sixty bushels of grain per hour in a most perfect manner. It is so constructed, that the grain passes through the machine, from thence to the rolling screen, where it is cooled, in a fit state for manufacturing. This machine requires very little power to keep it in motion, and may be driven by a small strap from any wheel in the mill. A quarter of a cord of hardwood will produce heat sufficient for drying a thousand bushels of grain.

The Subscriber begs to inform the public, that he has obtained a Patent for his Machine, which extends through the United Province of Canada, and that he is prepared to manufacture the above Machines to order, or dispose of the right to persons desirous of manufacturing or using the same.

#### CARDING MACHINES.

THE SUBSCRIBER begs leave to acquaint his L friends and the public in general, that in ad-dition to his Foundry and French Burr Mill Stone Factory, he has engaged Archelaus Tupper, who is an experienced Mechanist, to make all kinds of is an experienced Mechanist, to make all kinds of CARDING MACHINES, of the latest and most ap-proved construction, he has been engaged for tweaty years in the United States, and also in Canada, and has a thoraugh knowledge of all kinds of Machinery, namely: -Double and Single Carding Machines, Pickers, Condensor, Jacks, Billeys and Jinney. Also, Broad and Narrow Looms, Shearing Machines, and Giggs, Napping and Teazling; Stoves for heating Press Plates, Press Screws. Also, Grinding Shearing Machine Blades; Fulling Mill Cranks, &c, and all kinds of Grist and Saw Mill Castings made to order; of Grist and Saw Mill Castings- made to order; Wrought and Cast Iron Couking and Plate Stoves Fancy Stoves of all kinds: Also, Ploughs of different patterns, Mill Sciews of all kinds; and Damsall Irons; Bolting Cloths, of the best Dutch Anker Brand, warranted of the best quality, Mill Stones of all sizes, always on hand and to order. Also, all the other herein-mentioned articles always on hand and for sale by the Subscriber, at his FOUNDRY, on Yonge Street, as cheap as they can be obtained at any other place.

CHRISTOPHER ELLIOT. Toronto, August 7, 1843.

BRITISH, FOREIGN, and COLO-NIAL NDWSRAPER ADVERTISING AGENCY and COMMISSION OFFICE, 18, CORNHILL, LONDON, Opposite the Royal Exchange.

P. L. SIMMONDS, Commission Merchant, Newspaper and General Agent, communes to supply to order all the London, Provincial, and

Any further information on the subject may be had, by addressing the Subscriber. All commu-nications (post-paid) will be immediately replied to.

HIRAM BIGELOW.

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

#### DESCRIPTION.

Composed of a Cylinder about ten feet long; and ten inches in diameter, made of Cast Iron, and ten inches in diameter, made of Cast irren, one-half of an inch in thickness, having an iron shaft passing through its centre, on which it revolves with a pulley or wheel at one end, by which it is put in motion. The Cylinder is placed in an oblique position, having about 18 inches fall, and is enclosed either in anether mutel cylinder or a brief arch of thirtran inches metal cylinder, or a brick arch, of thirteen inches diameter, leaving a space of one inch and a half between the two cylinders, through which space the firo is conducted from a fire-place or grate, at the lower end, and passes out by a chinney at the upper end. The grain is conducted by a tube into the upper end of the inner cylinder.

Continental Newspapers and Periodicals, and attends to the several branches of agency and commission business. Goods and Merchandize of overy description forwarded to the Colonies, upon the most reasonable terms. Orders and Advertisements received for insertion in the London Gazette, and every other European publication.

Consignments of Colonial Produce entrusted to Mr. Simmonds for sale will receive the most promptjatiention ; and, from his extensive knowledge of the Home Markets, will be sure in all cases to sell to the best advantage.

Orders to sen to the vestavantage. Orders for goods of any description, or for Newspapers, Statuonery, dc., must be accom-panied by a remittance, or a reference to some London House for payment, or they will not be attended to. The postage of letters must also be not be paid.

SIMMONDS Colonial Magazine, edited and published by Mr. Simmonds, monthly, price 28. 6d., is especially recommended to the nonce of Colonists.

Observe the Address-18, Cornhull.

LESSLIE BROTHERS beg to inform thour Friends that they have just received a large and elegant Assortment of PAPER ILINGINGS, of French and English Manufacture, with BORDERING to match.

#### PUBLISHED MONTHLY.

- W. G LDMUNDSON, Editor and Proprietor; to whom all Orders and Communications must
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- UFFICE, by THOS. CUTTELL.