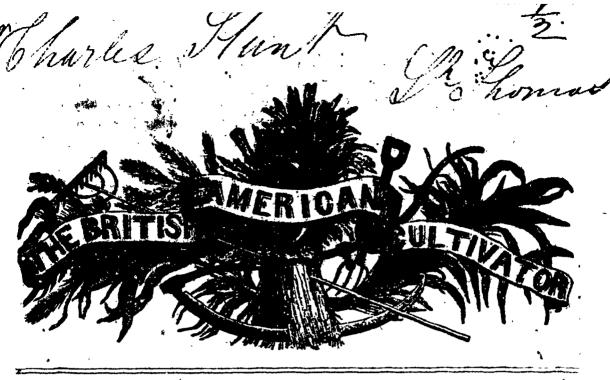
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Agriculture not only gives Riches to a Nation, but the only Riedes she can call her own."

NEW SERIES.]

TORONTO, SEPTEMBER, 1845.

[Vor. I.-No. 9.

WORK FOR THE MONTH. THE harvest being now generally ended, the farmer's year may be said to be completed; but his toils are never ended; no sooner is one harvest finished than he must prepare his ground for another .-From the first to the fifteenth of this would appear that the period for sowing had a material influence upon the crop -that which had been sown during the first week of September has almost invariably been more productive than what was sown during the second and third weeks of the month. No one now-a-days sowing after the twentieth of September. which had been recently cleared from ed by the same simple remedy. the forest, in which case it might answer Octobor.

Every pains should be bestowed in gallons of boiling water put one pound of welscing good seel; that which was blue vitriol; and while it is quite hot,

ferred to that which was grown upon a rich vegetable mould. No one should. think of sowing their seed-wheat without steeping, and thoroughly putting it thro? a course of purification ; for without this precaution frequently the most thorough cultivation will prove unavailing in semonth fall wheat should be sown; and curing a profitable crop. What we wish to judge from the past few harvests, it to have understood by purifying the seed is, that chess must be eradicated. and also rye and every other species of grain than wheat; and the fungus deposited upon the grain by the weevil or any other insect which is supposed to attack the wheat plants, to be destroyed by a powerful steep, which we shall preat all skilled in wheat-growing, thinks of sently describe; and above all. that most cal.mitous disease called smut, excepting upon new land, or rather that should be destroyed, which can be effect.

Of all the steeps used to prevent sinut, a good purpose, under favorable circum- that of sulphate of copper, or blue vitrici. stances, to sow as late as the first of is the most efficient, which may be prepared in the following manner : Into two

grown upon very lean land is to be pre-three bushels of wheat are wetted with

five quarts of the liquid; at the end of watched, and the moment any danger are to be added, and the wheat suffered to remain three hours longer in the solution. The whole should be stirred three or four times during the six hours, and the light grains skimmed off. Then add a sufficient quantity of slacked lime to perfectly dry it.

A strong pickle made with salt and water, and stale urine, are sometimes Chess is as as much a species of grain as employed as steeps to prevent smut; but oats or barley; and such farmers as we have every confidence in stating that desire to cultivate this plant would do blue vitriol is a certain remedy for smut, wisely to separate it from their other when used as previously directed; and grains before sowing, especially wheat, as the other solutions sometimes partially as it considerably injures the sample of fail, it would be advisable to employ the both wheat and flour, thereby entailing a most certain antidote. When salt or heavy loss to the grower, when mixed in urine are used, it would be well to mix large quantities. Chess is the least valabout two pounds of the sulphate to as uable of all the grains cultivated; and much of the liquid as is used for twelve it would therefore appear advisable to bushels of wheat. disease, and is not caused, in our opinion, prepared to assert, that no farmer need ther; and where the seed to be sown is the antidote is within the reach of all. entirely free from the disease, it is unne- -Simply clean the ground, and sow no stances we have enumerated; but it is of avoided. such rare occurrence to meet with grain free from smut, that it would on the whole our views upon smut and chess are given be advisable to ward off the evil by em- with a large degree of assurance; we ploying the most certain medicine.

forward in the autumn, so that they may peatedly experimented, with a view to become deeply rooted before the winter ascertain the correctness of our , otions, water, and mixed with the seed after it our theory upon our mind.

three hours the remaining three quarts were apprehended on this score, young calves and colts and such other stock as would not injure the heart of the plants, should be turned upon the crop to pasture it down, and to prevent its further growth for the season.

We know of no better method to prevent the transmutation of wheat into chess than to sow none of the latter grain. Smut is an infectious substitute the most profitable. We are by any particular influence of the wea- grow this pest with his wheat crop, and cessary to prepare it by any of the sub- chess, and the evil will certainly be

The wheat-grower will observe, that have been prompted to adopt this course It is desirable to bring the plants early from the circumstance that we have resets in : to secure this object, eight ounces upon those disputed points, and the results. of common saltpetre may be dissolved in have invariably strengthened the truth of If every has been removed from the steep, and farmer in the Canadas would only adopt previous to the application of lime .- the plans we have here pointed out, it When this powerful stimulant is used, in would be the means of adding to the very favorable autumns the plants might wealth of the country as much as the possibly become so gross or forward, entire public revenue. This may appear that they would commence stooling; to to some an exaggerated statement, but prevent this culamity the crop should be nevertheless it is a fact, that the loss to

The British American Cultivator.

equals yearly the sum of some hundreds America, there were scores of fields We now come of thousands of pounds. to a more interesting, and at the same time intricate as well as important branch of the science of wheat-growing, viz :-Rust.

that in a great majority of cases, rust might nearly, if not altogether, be pre--vented ; this opinion has not been hastily formed, but has become more deeply established in ratio with our increased Every observing person experience. must have noticed that rust is less freshine other description of soils which are quent on some soils than others-those noted for their comparative barrenness which most usually escape, being deno- in vegetable matter; and those upon minated lean soils, and those which most which the wheat crop have failed the promoted the disease, of the opposite present year, are of a deep rich vegeta-quality, or such as contain a large share ble quality, which are better calculated of decomposed vegetable matter. It is to produce straw than wheat. now generally supposed that rust is occa- The skilful cultivator will avoid, if sioned by the overflowing or bursting of possible, making his land so rich that his the sap-vessels, produced by too luxuriant, wheat-plants will be in danger of be coma growth of the plant. Some attribute ing surfeited with vegetable food,-the it to other causes, but this appears to us means of doing this will be found in mathe most feasible. Some seasons encou- nuring the land for the crops which will rage the disease more than others; for precede or follow the wheat crop, and by instance, the summer of 1839 was so well deep ploughing and liming or marling calculated to produce a pretty general the land for this crop in all cases where rusty crop of wheat, that a person ac- the soil is deficient in calcareous subquainted with its cause and operations stance. Much of the land in Canada is could have foretold the result some too rich for fall wheat, and on all soils months before the calamity happened, that would be likely to produce a great The present season has been one of the bulk of straw, it would be advisable to opposite character. No one scarcely reserve such for spring wheat. calculated on rust the present harvest, a certain degree of delicacy-in extending and few have suffered to any considerable our remarks upon rust, because we are extent., The weather has a powerful confident that our readers are not preinfluence in promoting or allaying this pared to agree with the deductions, we direful foe to the wheat grower; but, have made. At another time we may on the other hand, the cultivator has have greater confidence in going more noarly as much.

As proof of this bold assertion, we and to some most intricate subject; for would instance the fact, that in the year the present, however, we shall conclude

the province in chess and smut alone, 1839, the year of general rust in North which escaped, although being immediately in the vicinity of some fields which were totally destroyed; and the present season, which will be long noted for the absence of the disease, there can be found in almost every section of the country, some fields or patches so seriously injured, that they have not paid the expense of harvesting. The soils which produced wheat free from rust in 1839, was either a calcareous clay, limestone-gravel, stiff sandy loam, or all of

We feel into the details of this highly interesting,

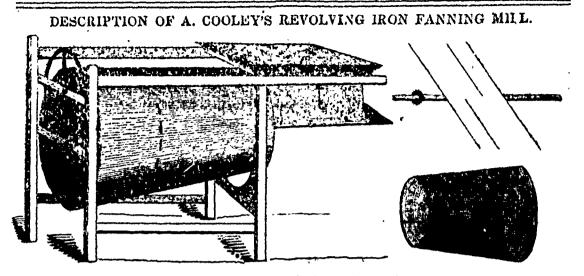
this branch of the subject by stating, that scribers as well as ourself, to recant no farmer in the province has better opportunity than ourself for ultimately settling this long-discussed and yet diffia variety of soil under cultivation, a quality that will produce rust under ordinary treatment; and if there be a possibility of totally preventing the disease on the soil we cultivate, others may then take courage, and follow the directions we may from time to time think proper to give.

quantity of seed which should be sown on a given space of ground to ensure the largest return with the least possible There is scarcely any point upon risk. which there is so much difference in opinion as this. The better plan would be for each farmer to settle the matter, by experimenting himself, which can be done this season as well as any other .-Not less than three, nor more than eight pecks should be sown upon an acre; and to test the matter fairly, at least a rood should be allotted to each experiment .-It might not be out of place here to mention, that we have been a little disappointed with the experiment we mentioned on the 205th page of the present volume.' The nine acres we alluded to was on the whole a good crop, but the product was not so great as if we had sown six pecks per acre instead of three. The yield in straw was most abundant, and the heads were uniformly large, but the great space which the plants had to tiller prevented its ripening as soon as it otherwise would have done, by at least On soils of a leaner quality a week. than ours; this experiment might have proved more satisfactory, but on the Mayoning, Va., Ja whole, we feel it a duty we owe cur sul -Southern Planter.

from Mr. Hewitt Davis' specious though false theory of thin sowing of grain ; and the present season we shall sow as forcult question, inasmuch as we have quite merly, six pecks, and possibly a small trial with seven and eight pecks per large share of which is of the precise acre. The most successful wheat-grower we have any knowledge of, sows his seed so abundant, that he calculates each plant shall only produce three cars, and at the same time those ears are not over two and a half inches in length. The quantity of seed necessary to produce such an extraordinary thick growth, on The next topic in order is the proper average soils, would not be less than ten pecks per acre. We do not wish to be understood to advise this extreme sowing. but we simply mention the fact, and would prefer others to adopt such a course as their judgment and experience would under the circumstances dictate.

> Experiment with Tar.---I promised to give you the result of an experiment which I had made with tar in preserving the peach and nectarine trees. It is so very simple and cheap, that all admirers of good fruit may have flourishing trees, and a chance for cating good fruit. As soon as the scion attains the size of a man's finger, which is generally about the first of autumn, remove the earth from the root, and deposit around the stock of the tree a half pint of soft tar, rubbing at the same time the body of the scion for six or eight inches above the surface with 'ar; then replace the dirt previously re-This process must be repeated noved. each succeeding year, say in the month of June, increasing the quantity of tar according to the growth of the tree. My own experience enables me to say, that his receipt is infallible.-G. C. Dobson. Mayoning, Va., Jan. 31st, 1845.

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The whole is to be constructed of iron, except [chaff may fall, shall incline a little backward, so square. extending from the shaft to within one inch of will not choke, as in the common mill. the inner surface of the cylinder, barely giving only at the rate of 20 revolutions per minute. In will not swell, shrink, rot, or rust. the upper portion of the cylinder, extending down giving room for the chess, cockle, and other foul will endure for a century. stuff to pass through the screen upon the inner carried down to the hoop at the lower end of the at the rate of forty hushels per hour. screen, and discharged through holes cut in the c /linder.

Within and extending the same length of the screen is a cylinder seive approachis g somewhat the sieve is constructed in this form for the pur- more portable. pose that the bottom portion where the grain and

the frame, which is composed of timber two inches as to allow the wheat heads and other heavy The cylinder, which contains the fan, substances to pass off with the chaff. Both the screen, and sieve, is made of sheet iron, in length sieve and screen are attached to the cylinder, three feet and in diameter 24 inches at the upper and revolve with it. As the grain passes through end and 30 inches at the lower end. When the the sieve into the screen, the revolving motion cylinder is suspended in the frame, the bottom carries it to the lower end of the cylinder, where will be on an angle of about 15 degrees, while it discharges itself. The hopper sets upon the the top of it is level. The upper end of it is back end of the frame, over the shoe, and is stasupported by two friction rollers, while the lower lionary. The shoe is suspended by two wire end rests upon a rim of flange, 8 inches in diam- hooks under the hopper, and a slight motion is eter, which is attached to the back side of the given to it by means of an excentric, attached to spur wheel. There are two sets of arms or spokes the end of the shaft of the fan. The fan is proextending from the centre to the inner surface of pelled by a cog-wheel, 18 inches in diameter, the cylinder—one set at the lower end, and the which meshes into a 3 inch pinion. The cylinother about midway of the cylinder. A turned der, as before described, is carried in a contrary i on shaft 20 inches long and 2 of an inch in di-direction as a flange or rim on the back side of ameter, to which the wings of the fan are at- the cog-wheel. The sieve is kept to its place by tached, is suspended or running through the means of springs, so that one quality can be centre of these two sets of arms, while the lower readily taken out and another for a different kind end, to which the small cog-wheel or pinion is of grain be put in its place. Only one seive is attached, rests in a box in the frame. The fan required for wheat, rye, or barley, and that is the is constructed somewhat like the propellers in finest quality used in the common fanning mills steamboats, the wings of which are attached to for wheat. The revolving motion keeps the the shaft between the two sets of urms or spokes, wheat and the chaff in such motion that the seive

Advantages over the Common Mill .-- 1. It is room for the wheat to pass under them. While built entirely of iron, except the frame, and co-the fan is driven at the rate of 500 revolutions, vered inside and out with Japan Varnish, renthe cylinder is moving in a contrary direction (dering it impervious to water; consequently it

2. There is no shaking process, as in the old to the middle set of arms, is a screen, surround- fashioned mill, but on the contrary it moves with ing the inside and supported by hoops at each a steady revolving motion; therefore it will not end, one inch in thickness, which keep the screen be shaken to pieces, nor is there any langer of one inch from the inner surface of the cylinder, its getting out of order with common usage, but

3. It will clean wheat fit for market by once surface of the cylinder, and by its revolutions is running through (if it is not very foul,) and clean ۰, ۳

> 5. It turns one-half easier than the old wooden mills.

5. It will cost no more.

6. The weight of it is not more than one half to the form of a cone, the small end downward; of that of the old-fashioned mill-consequently

THE CROPS, &c.

The present season has been one o almost unexampled drought; and the result, as might obviously be expected, is, that the potato, hay, and most of the past favorable harvest will not be the spring crops are far short of an average precursor of better times in Canada. yield. The potatoes in many instances few such harvests as the past, accomare an entire failure; and so also are the meadows in some exposed situations. Potatoes, oats, and hay, from their great of the Canadian population to such a scarcity, must necessarily bring extraor- pitch, that no other people could scarcely dinary prices the ensuing winter, and it be found that could equal them in accomtherefore becomes every one in hand to plishing permanent improvements upon economize with those crops as much as their farms, and in the acquisition of possible. The wheat crop is one of the useful practical agricultural knowledge. largest in quantity and best in quality that was ever gathered in Canada. Good provident farmer will at once see the samples of wheat, this season, are not propriety of economizing his limited stock confined to sections of the country, as in in such a manner, that his cattle will not former years; in every part of the pro- be stinted either in quantity or quality. vince good samples in large quantities The best method known in making up may be seen,-and strange to say, most for a bad hay and oat crop is, to employ superior qualities of wheat may be found an improved straw cutter,-one which grown under the most objectionable me- may be worked either by man or horse. thods of cultivation, Late sown spring Of this description of machine there are wheat is partially a failure, and in fact, a number of kinds in use, but none in our except under the most favorable circum- opinion appears as simple, and at the stances, it will not yield as well as win- same time so efficient and pheap, as those ter wheat. If the prices be at all remun- manufactured by Mr. Absalom Blaker, erating, more than double the quantity of the village of Newmarket, one of of Canadian wheat will be thrown into which we have in use that will cut when market than has been the case in any propelled by horse-power, as fast as a previous year. High prices are now out clever man can feed it. It is always in of the question; but under the present repair, and ever ready for use, and we British tariff, the farmers of this country think that every farmer would find it to may safely palculate upon four shillings his advantage to purchase an implement per bushel for their wheat, and in many that is so wisely calculated to make up seasons even more. There is under the for a partial failure in the hay and oat present Canada Corn Bill a guarantee crop, The price of Mr. Blaker's mathat wheat will never be extremely low in price in the Canadas, so long as it re- that he attends to no orders from a dismains in operation, which should stimu late the farmers to increase their business and effect every improvement that would be calculated to make their noble ashes of buint bread.

alling more profitable. The wheat rade in Canada will now assume a legree of importance hitherto unknown ; and we shall be greatly mistaken if the panied with fair remunerating prices for their produce, would elevate the spirits

The hay crop being a short one, the chine is £5 in cash, and we believe tance unless the cash be accompanied with the order, free of postage.

To Clean the Teeth .- Rub them with the

TORONTO NURSERY.

When last in Toronto we paid a visi; to the above establishment, and was agreeably surpised in witnessing the extent of the improvements effected the present summer by its enterprising proprietors, as well as the general taste displayed in planning and arranging the grounds to attract the attention of visitors. The largest collection of choice varieties of cherries that we have met with in any Nursery establishment in this province, we had the pleasure of seeing in the Toronto Nursery; and we were assured by one of the proprietors that it is their intention to cultivate all the approved varieties of cherries, apples, pears, and plums, and such other fruits as are adapted to our northern elimate, on a scale sufficiently extensive to supply the mar-The Toronto Nursery being in ket. connection with that very respectable establishment, " The Mount Hope Nursery," near Rochester, is in possession of facilities for supplying the Canada market with every choice variety of fruit which no other can boast of; and from the very fact that the proprietors have been bred to the Nursery business, and that they will invariably warrant the varieties to be pure, and to their sorts, they deserve the countenance of the Canadian public. We rejoice to see men of enterprise settle among us, and shall ever feel it a duty we owe to our country to extend our aid to such useful branches of industry as require fostering at the commoncement. Although the one under notice is yet in its infancy, it is nevertheless prepared to execute any reasonable amount of orders with the greatest possible despatch, and upon the most reasonable terms. Nothing but the will hinders the inhabitants of Canada West, in properly supporting one, two, or

ven more respectable Nursery establishnents; and to show evidence of their good taste, we hope that every farmer will resolve to plant out an orchard of choice fruits without delay, and to patronise such establishments as will furnish varieties that can be relied upon. N this advice be acted upon, large sums of money may be kept at home, which would otherwise be sent out of the country for fruit trees, and fruits, which could be propagated and matured in the province equally as well in an average of seasons as among our neighbors.

We have secured the services of Mr. Barry, one of the proprietors of the Toronto Nursery, to take the editorial charge of the Horsicultural department of the Cultivator, and from his well known acquaintance with the science as well; as practice of Nursery and Horticultural pursuits, we have great confidence that his able assistance will prove acceptable to every reader of our widely circulated journal. We hope that the independent farmers of Canada will benefit by the wholesome advice that Mr. B. will from time advance for their especial use; and if they have not already supplied themselves with a good selection of fruits, and a well cultivated garden, that they will do so as soon as possible, so that it may no longer be said that the. inhabitants of Canada are behind the age. in improvements and general civilization.

To Make Vinegar.—Take eight gallons of, clear rain water, add three quarts of molasses, put into a good cask, shake well a few times, then add two or three-spoonsfel of good yeast, or two yeast cakes. If in summer, place the cask in the sun; if in winter, near the chinney where it may be warm. In ten or fifteen days, add to the humor a sheet of brown paper, torn in strips, dipped in molasses, and good vinegar will be produced. The paper will in this way form what s called the "nother," or life of vinegar.—New Gen. New

Through the politeness of Mr. Thos. Champion of this city, we have been favoured with the following "Letters on Agricultural Improvement," which were published by their enlightened and zealous author in the cause, and distributed gratuitously by him to promote the great and important cause of national agricul. tural improvement. Those letters being six in number, will appear in this and subsequent numbers of the Cultivator, and we trust that our intelligent readers will receive, as we have done, much pleasure and benefit in their perusal.-There can scarcely be two opinions upon the point, that in Canada far too little capital and skill is invested in agricultural pursuits. In England capital is abundant, and labour is comparatively low to what it is in this country ; but the which cannot be profitably grown in corn fields. inducements for investing capital in unnecessary banks, tences and ditches. agriculture is not so great in that country as in this, inasmuch as a much higher rate of interest can be realised from useless bug into good soil. money invested in this pursuit in the new world than in the old, when employed by men possessing a' thorough practical knowledge of their noble and independent profession.

this country to imitate the author of these letters in carrying out agricultural improvements, but the subject deserves much more attention at their hands than has hitherto been given it, and we trust the day is not far distant when every farmer will manifest the will to effect such substantial improvements upon his farm as will not only pay a handsome for man or beast. interest upon the investment, but will at the same time elevate his exalted calling in his own estimation. We have a desire to see the cultivators of the soil proud of the name of husbandmen, and this can best be done by becoming mas- manure in yards.

ters of the several branches of their profession.

LETTERS ON AGRICULTURAL IMPROVEMENT.

BY I. J. MECHI.

LETTER Ι.

Sir,-As Agricultural Improvement is the order of the day, allow me to mention an extreme case —the expenditure of £6200 on a farm of mine, 130 acres (Tiptree-Hall, near Kelvedon, Essex,) that only cost £3250. In due course, when the results are accurately ascertained, I shall deem it my duty to submit statistical details and drawings of the buildings to every Agricultural Society in the Kingdom, in the hope it may give confidence to those who, having the means to improve their property, are doubtful as to such improvements paying a remunerating profit to both Landlord and Tenant. The expenditure above mentioned has been appropriated to

1st. The perfect and permanent drainage of the land with stones and pipes, 4 yards apart, and 32 inches deep-between 80 and 90 miles of drams.

2d. To the entire removal of all timber trees,

3d. To the removing all old, crooked, and

4th. The cutting new parallel ditches and fences, so as to avoid short lands.

5.h. The enclosure of waste, and conversion of

6th. The economizing time and distance by new roads, arches, and more direct communications with the extremities of the farm.

7th. The erection of well-arranged farm-buildings, built of brick, iron, and slate, in a continu-ous range, excluding all cold winds and currents of air, but open to sunny warmth.

8th. The building a substantial and gentcel It would be folly for the farmers in residence, with all due requisites for domestic confort and economy.

9th. 'The crection of an efficient threshing machine, and needful apparatus for shaking the straw, dressing the corn, cutting chaff, bruising oats, &c., so constructed as not to injure the straw; avoiding by its perfect action, that im-mease waste of grain visible in almost every truss of straw we examine.

10th. The avoidance of thatching and risk of weather, by ample barn room, with convenience for in-door house labor at threshing, &c., when not employed without, so as to have no idle days

.11th., The saving of every pound and pint of manure by a tank (90 feet long, 6 feet deep, 8 feet wide, with slated roof facing the north, and with well and pump,) into which is received the whole dramage from the farm-yard and stables.

12th. The conveyance by iron gutters and pipes of every drop of water from the roofs of each building, so as in no manner to dilute the of the barn, and every building on the far a.

14th. A steam-house to prepare food for cat-I am thus particular in detail, because it is tle. from each of the above branches of expenditure that some portion of remuneration is expected. But, during the progress of my undertaking, I have been warned, entreated, and dissuaded by my farming friends, who protested that a profitable return for such an enormous expenditure was inpossible ; my calculations, however, were made, and mere assertions without facts and figures weighed nothing with me. Although the opera-tions were only commenced early in 1843, the results, as far as they go, are gratifying and convincing. As one instance of success, a field of oats, sown on the 16th May, after drainage, was harvested and stacked, before another (sown two months earlier on better but undrained land) was ready to cut. Hereafter you shall have detailed statistics of every department in which saving is effected and increase produced. In a moral and social point of view, these improvements have acted beneficially. They have excited the energies of the tenant and his laborers, stimulating them to think, compare, and improve. They have awakened the attention and curiosity of the neighboring farmers, who are watching the result, and already have they caused many undertakings in drainage, which otherwise would not have been thought of. Had I invested my money in the funds, there would have been an end of the matter; but now I have the satisfaction of having fulfilled a public duty (without injury to myself) by calling into action temporarily and permanently, a considerable amount of labor. I couceive that the highest order of charity, which, by providing employment to the willing laborer, confers afavor unseen, and leaves uncompromised (his most valuable privilege) his self-dependence.

If every one who has the means follows my example, where requisite, there will be little need to complain of the want of employment for our peasantry or our capital. Whilst every thing has been done for the farmer's profit and comfort, the cottagets have not been forgotten. A lew gutters and pipes to their residences, and some drains in their gardens, have rendered the former dry and healthy, and the latter productive; and this at the triffing cost of a few pounds. asked, "what can you as a Londoner know iron, with a blueish or slaty character: then a about farming ?" I will answer, "I always loved the beautics of nature, the pure air of Heaven, the which would rise a small weak spring, sufficient, sports of the field, and the hospitality of our honest yeoman. I have seen one farmer making a fortune, and his next neighbor losing one. I have seen one field all corn, and another nearly all weeds."

I asked, "how is this?"-enquired into the causes-noted the results-obtained from all the in some considerable degree of the nature of the best farmers and all the best agricultural books subsoil, being, however, ameliorated by mixture within my reach, every information bearing on of manures and by cultivation, Stillso great was agricultural pursuits-practiced on my own little the fear of the wretched subsoil that the pan was gurden, on a small scale, a variety of experi- never disturbed, consequently, there being but ments; and after carefully weighing the evidence, nine or ton inches of cultivatable earth with an

13th. The perfect dramage of the foundations [1 come to the conclusion, that want of dramage, both in land and buildings, waste of manure, shallow ploughing, and short leases, are amongst the gr atest curses to this country; and I, as far as my individual means will permit, am resolved on remedying them.

I am, SiR,

Your obedient Servant,

I. J. MECHI.

4, Leadenhall Street,

London, March 15th, 1844.

P. S. As Tiptree Heath is notorious for poor land, and as the Essex farmers, generally, are extremely sceptical as to these improvements answering, I would recommend their inspecting the crops (there will be no long fallow) about July next; and then, having the facts before them, they will be enabled to draw correct conclusions. I may as well add, it is intended to trench-plough and disturb the soil to the depth of fourteen or sixteen inches. The implements used on this farm are, Crosskill's clod-crusher roller and liquid manure cart. The threshing-machine is constructed under my own direction, by Mr. Bewley, of Chelmsford, on the Scotch principle, with rakes, chaff-cutter, and corn-bruiser.

LETTER II.

THE DRAINAGE AT TIPTREE-HALL FARM.

Sir,-As I have frequent enquiries, I will endeavour to give you a tolerably succinct account of my draining operations at Tiptree Hall form.

The land is of such various qualities, and so particularly situated thereby for the retention of both top and spring water, that the Essex people considered it never could be improved even to become of tolerable goodness.

A nout two-thirds of it was a strong yellow loam subsoil, in a state between putty and bird-lime, according to the season, here and there mixed with a hodge-podge of stones, to which its attachment was so affectionate that there was no separating them, and it was only by the constant use of water that the land drainers could get their spades in or get rid of this adhesive substance; at intervals might be found veins of silt (the reverse of adhesive,) and here and there the soil I may be would assume a rusty appearance, indicating patch of gravel occasionally amongst the loam in however, to ruin the crops in its immediate neighborhood. Over this subsoil and between it and the cultivated soil, was a hard, dry and impervious pan, formed of the subsoil, but hardened and rendered solid by the heat of the sun and the action of the plough-sole. The soil itself partook

A showery season was the only suitable one for passengers to travel down it. this description of land.

ecace of a few months, we are subsoiling to the should form, it practicable, by admeasurement, a depth of fourteen or sixteen inches, and working superficial area equal to the solid unoccupied it like a garden; the water having left it, and contents of the pipe or drain (reduced to an area :) the frosty air following the water, it is as mellow the velocity of passage in the drain being eerand friable as could be desired. In fact, during tainly, in a general way, equal or superior to the the last month, whilst our neighbors were unable velocity of percolation. to move, we were harrowing on our wheat, and beans like a rich garden; the earth crumbling the continued winter rains expand the particles down after the drill like sand-very much to the and render filtration more difficult-especially astonishment of the Tenant and Labourers; and during the first year or two after drainage; therethis after so much carting and disturbance, and so fore, I prefer deep and narrow stone drains, promuch of the subsoil thrown up, that two months tected from earth by a pipe over them, because previously it was thought a whole summer would they afford ready access to a large and porous hardly suffice to condition the soil.

The drains cross, at a very acute angle, the sides of the drain. slope of the land; they are four yards apart, with

of its passage through the drains."

bashels of stones.

The style of draimage applied to this part of the farm is as follows:

teen inches long, three and one-eighth wide at gravel, sometimes both. top, and one and a half at bottom,) which redepth from the surface thirty-two inches. The of extensive knowledge and ability in this departdrain being well cleared out, we first fill in the ment of drainage, who I undersland has essenstones, a drain-pipe, thirteen inches long and take his fall from the lowest point, and gradually three inches wide outside, having a two-inch bore. work up to where the spring shows itself, having This fits so exactly into the space made by the previously ascertained the whereabouts by diglast or narrow spade, that it not only rests on the ging, and by those plants that invariably show stones, but binds against the sides of the drain, themselves over a spring. As springs are generthereby preventing the stones being choked by ally attended by sand-beds, a single drain will the superincumbent earth, but also forming the often lay dry a large extent of ground. In one earth above it into an arch ; which in the stronger case, where there was swamp of four acres, the soil would, it is presamed, retain its form even if drain was opened at two feet, and continued in a the pipe were broken or decayed. As this is a trench till it reached eleven feet in depth-the plan of my own, and contrary to the entertained |sand boiling at intervals like water in a cauldron, opinions, that the tiles should be at the bottom, of course it was necessary to shore up the sides, I will give my reasons for so doing ; because,

Ist. It is cheaper.

sider of the utmost importance, and not sufficiently it was necessary to have two strongly made iron considered. It is quite evident, that the filtra- skeleton arches with wooden sides, about thirty ti. 1 of the water must be according to the area inches high, and the width of the drain two feet. of the pores presented to the air in the drains. In these arches were laid the pipes, and firmly

impervious basis, a dry summer burnt all up, and use having a large passage unless you have a wet one ruined the crop by otting the roots enough sidedoors to admit a sufficient number of

The pores, in contact with air, which are con-Now, however, after draining, in the short smally admitting the water by its superior gravity,

> It must be considered, that in dense subsoile, surface ; filtration going on both on the tops and

I would observe, that even on the recently a leader to every fourscore reds-the leader being drained strong loam, but little surface water ran rather deeper than other drains, but not wider, away, most of it percolated, except in cases of the Still, as it never runs full, it proves in practice ground being frozen hard, and very heavy and my subsequent proposition, that " the filtration of sudden rains. It appears to percolate tolerably water, in strong soils, is far inferior to the velocity clear according to the season-but on this point my observations must be more extended. On Each acre contains twelve score rods: and cutting across some of the drains that had been costs ten pounds, requiring 3200 pipes and 360 made six months, the stones were found to be washed as clean as the gravel in a brook.

The other third of this farm was the reverse of the first two thirds, and required an entirely dif-First, a double turn of the plongh takes out ferent system of draimage. It is mostly black, nine inches; then a marrow spade (sufficiently) sandy, and boggy soil, with numerous springs wide to admit the drainer's foot) takes out tentrising at various points where obstructed by perinches; then comes a still narrower spade (four-pendicular walls or veins of dense clay or hard

The drainage here has been effected by a permoves thirteen inches more-making the whole son named Pearson, from Warwickshire, a man drains, to the depth of ten inches, with nice clean tially improved Lord Digby's estates by his judigravel-stones, and then place, on the top of these cious sub-draining of the springs. His plan is to and when his level was accurately taken, he commenced laying his pipes on hay (two half 2d. It is more durable, and less liable to choke. pipes, four-and-a-half inches diameter were put 3d. There is a larger area of space for the together, being internally nine inches by four-andescape or filtration of the water; and this I con- a-half,) but so strong was the force of the water, It might be illustrated by saying, it is of little loaded to the top of the arch with soil to keep the

and sind ; when loaded, the arches were removed | countrymen. by a lever, the mou hs of the pipes being carefully stopped with hay, till the next length of pipes was luid in the next arch (two always being in use, one in front of the other.)

The result is, that one such drain laid perfectly over or across it;) the first drain tuns permanently 30,000 gallons every twenty-four hours, and several others nearly as much. It has laid our neighbour's wells dry, a quarter of a mile off (being in a bed of sand, below their level). The land (which has been double spitted) is now always perfectly dry, although previously dangerous for caule and entirely worthless.

In conclusion, allow me to say, I have derived most valuable information in draining from those excellent and standard works on Agriculture, "Stephens' Book of the Farm," " Loudon's Encyclopædia of Agriculture," and "Morton on Soils." There may be found ample and satisfactory evidence and matters of fact in every branch of draining. It is with extreme regret I frequeatly see money completely wasted by placing tiles without soles, and pipes without stones, and temporary and imperfect draining by bushes. That soil in a few years becomes absolutely much worse than it was originally, for when the drains choke, there is a much larger accululation of water to the destruction of the crops.

I hope that in time to come, farming will be treated as a science, and that there will be as much uniformity in cultivating land as there is in " manufacturing cotton. That can only arrive by our young farmers deriving an uniform agricul- in gain as well as in saving. tural education-the mechanism for which does not at present exist. Let us hope it may here. extra sack of oats would pay this drainage charge, after, and that whilst we have collegiate education for the learned and other professions, we shall at least have agricultural universities and apprenticeships. There can be no doubt that, ed into the yards for manure, all for drainage, agriculture is the basis of society-the most para- which would have matured them a week or fortmount interest in a pecuniary point of view-the night earlier. regulator of currency and manufactures, which are subservient to it. If we want a proof of this, let us consider that the stomach cannot wait a day; its claims are paramount, and to hunger must succumb all our other enjoyments, whether tion of the New York State Agricultural Society of manufactures or luxuries.

Let every Landlord and every Tenant improve their land, where opportunity exists, and the Anti-Corn Law League may visit other countries, whose fear of our exportations will then be great. For it is quite clear, that if all the land in this country that required it, were perfectly drained and cultivated, we should be quite as able to export our superfluous corn and meat as our superabundant cotton; a result devoutly to be wished, when we consider the effect of ample food and employment to our laboring population in a moral, physical, and social point of view-to say nothing of the immense pecuniary advantage of employing our capital at home, instead of lending it to other nations, to enable them to compete 'cumstances.

pipes from being forced up by the boiling waters | with our own already insufficiently employed

I am, Sin,

Your obedient Servant,

I. J. MECHI.

2

P. S. As ten pounds per acre is deemed extradry four acres of bog (having a smaller spring vagant by the Essex gendemen for permanent drainage, the following calculations will prove it to be the cheapest :---7

Twelve score rods per acre, done tempo-	3.	a.
rarily with seuds, bushes, &c. at £4 per acre, calculated to last ten years. Interest on £4 at 5 per cent,	4	Ø
Principal sunk in ten years is 8s. per year	8	0
Annual charge Interest on my permanent draining at 5 per cent.	12	Ø

Annual charge 10 0

Annual saving per acre in favor of my plan

We find, during the last week, that while the stone and pipe drained part of one held is perfectly dry and friable, the scud-drained part of the same field, done the same depth, distance, &c., (about three acres,) is a fortnight later in its drying. This is an important fact worth noting, the soil being exactly the same. It is well known that after six of seven years, the soud and bush draining becomes annually less and effective. If so, how pre-eminent must be the permanent drainage

I will say nothing of the calculation that one besides twenty other advantages that might be named. Sometimes a whole crop depends on a day or two-witness the clover seed of 1842, cart-

NEW YORK STATE AGRICULTURAL SHOW .--- We beg to inform our friends that the annual exhibiwill take place on the 16th and 17th inst. at the City of Utica. We doubt not but that this exhibition will be well sustained by the weakhy and enterprising furmers of central New York.

We hope to be present at the above exhibition, and shall take notes of such particulars as would be likely to interest our readers. Those of the Canadian farmers there are anxious to have a Provincial Agricultural Society established in this province, would lo well to attend the New York State exhibition, by which means they could better judge of its malaptation to our cir-

SIGNS OF A POOR FARMER.

He grazes his mowing land late in the fall, and his pustures early in the spring, and consequently rums both. Some of his cows are much past their prime. He neglects to keep the dung and the ground from the sills of his buildings; and it costs him twenty dollars to make repairs, when one dollar's worth of work would have been sufficient if performed at leisure time, ten years be- will generally see the smoke begin to come out hausted before he thinks of the manuring. He have the house the bar and a segur to come out fore. He sows and plants his land until it is exhas generally too much stock, and many of them unruly. He is almost sure to have a good deal boards are to be seen off his buildings month after of stake and pole fence. He says that he cannot farm it for want of money: this is frequently with hole grain, and suffers them to be much in-the case with good farmers, but you may know inred for want of a warm hed and warm nen : he a sloven by his inattention to small things-his strings to tie them, or for want of a little tallow or the wool comes off his sheep, he does not seem to supple them—his door hinges comes off for, to think that it is for want of care and food. want of a hinge, and his mow is trampled on frequently forgets to return the thing which he want of a nail, and the floor is destroyed for and cattle gored for want of a door, and all this loss is occasioned by not timely driving and clenching a single nail. Nothing is in orderhe has a place for notking, and nothing in its place. If he wants a gimblet, a chisel, or a hammer, he hunts up the chamber, out at the barn and corn house, in the cupboard, and lastly when be has spent more time in pursuit than it takes him to do the job, he finds it in the cellar. He keeps no stock of the smallest things: if a button or a bail to a peil gives way, or a key to a yoke, or a pin to a sled, or helve to an axe, a string or a swingle to a flail, or even a tooth to a rake, he has none to replace them. He seldom | ported from Europe with bees. This moth in its does anything in stormy weather, or in an even- perfect state resembles some of the varieties of ing, and is sure to keep no memorandum of little millers that are often flying into a light on a jobs that are to be done. You will perhaps hear warm summer evening. It is usually less than of his groaning about the hardness of the times three-fourths of an inch in length. frequently in a bar-room. Death and the tax gatherer he knows must come; yet he makes no provision for either of them. Although he close of August. In the evening they are active has been on a piece of good land for twenty and lay their eggs; and in day lie quiet in cracks years, ask him for a grafted apple, and he will and crevices of the hive and bee-house. If a tell you that he could not raise them for he hive be not well gaurded they will enter it and never had no luck. His indolence and careless- deposite their eggs in joints or cracks of the hive, ness subjects him to many accidents. He loses where the young on being hatched finds a supply soap or cider for want of a hoop-in the midst of wax which is its natural food. When the of his basy ploughing, his plough breaks because moth cannot gain access to the inside, she lays it was not housed; and when he is employed her eggs on the outside in the cracks or joints, away from home, his hogs break into his garden and when the worm is hatched he eats his way for want of an additional board. He does not through wax, or under the edge of the hive to the take the advantage of his business by driving it inside, and there he takes up his residence, and when he can, and consequently he is like the lives on the comb.—He throws around him a web, old woman's son, "so busy that he never does or silken tube, which protects him from the bees, any thing," or at least he seldom finishes one and he moves about among the comb, carrying thing before he begins another, and therefore destruction in his course, filling the hive with brings little to pass, and is often seen in a great webs and filth. hurry. He is seldom neat in his person, and will sit down to table without combing his hair, and stant encroachments of an enemy against whom suffers his children to do so without washing their bey have no means of defence. These worms hands and faces. He frequently drives his cattle or caterpillars in about twenty days from hatch-with a club, and is generally late to public wor- ing attain their full size, which is about an inch ship. His children are also apt to be late to school, in length. Then like the silk worm they spin

and their books are torn and dirty. He is careless; his children and domestics are so too." As he has no enterprise, so he is sure to have no monsy. If he must have money, he frequently makes great sacrifices to get it ; and as he is slack in his payments, and buys altogether on credit, he pays through the nose for every thing. His want of forethought, economy, and exertion makes him month without being replaced. He feeds his hogs jured for want of a warm bed and warm pen : he seems to live without thinking : if his lambs die,

He is generally a troublesome borrower, and

In a word, a poor farmer in the strict sense of the word, is a poor creature-he is a poor husband, a poor father, a poor neighbor and a poor citizen. A good farmer may be poor, but a poor farmer cannot act his part well; in other words, he cannot be good as a man or as a christian.---Farmers' Messenger.

THE BEE MOTH.

The bee moth in most parts of the United States is very destructive to bees, while in other sections it is unknown. It is supposed to be im-

The female is larger than the male. They lay their eggs from the latter part of April to the close of August. In the evening they are active

The bees become discouraged from the con-

their silken cocoon. chrysalis state, and in a few weeks come forth in than he need, and though his raker tells him that the perfect or final state, as moths or millers. the lays four bands where but one is wanted, and Those which come out late, remain in the hive makes heads on both ends of the straw, he heeds in the chrysalis state during the winter, and come it not. He in his own mind cradles better than forth perfect animals in the spring.

modes of protection that have been offered ; but his grain as well as I can. I never could teach a this most formidable enemy of a useful insect, a fairly tired him out; then he would begin to gatherer of the sweet produce of nature for the think about trying to do his work easy. use of man. The only animal as we lately observed, that furnishes itself with its own suste- cribing to those who are not initiated into the nance, and some to spare for our benefit. It well sublime mysteries of the art of cradling, and the deserves every means that we can devise for its pleasures and pains thereunto appertaining. protection.

claiming to protect bees against the moth, but dignity as he would if he had obtained a patent off they generally fail. We have used as a preventive common whitewash of lime, with plenty of millions are to fall by his arm. And if no blood fine salt in it. Early in the spring we put this on the bottom board, after cleansing it, and on the lower edge of the hive, and on the inside of the hive up to the comb. It should be used occasionally in the summer, and plentifully too on the lower edge of the hive and on the board .- This is grateful to the bees, and conducive to their health; it is a remedy for diseases, particularly for diarrhea. We have never been troubled with the moth, which we have attributed to the free use of the whitewash, for in this case the young worms are supplied with salt and lime, instead of wax for food.

said that he prevented the depredations of the scythe one third of its length forward from the moth by making a small channel in the board heel. Elevate the snath at the nib so that the just inside the door, filling it with fine salt and said line will rise one third the height of the then filling up the interstices with liquor from the cradle on the fingers. Measure the length of the blue pot, which term will be understood by old scythe on the snath, and set the point of the farmers. He said this was pleasant to the bees, scythe its length from this point. Raise the end and no miller would cross it.

Moths are often caught by hundreds in the evening, by setting around the hives sweetened vinegar in white dishes. Honey and water, made weak, is also recommended for this purpose. It is stated in a Western paper that an apiarian inches shorter than the lower, and the points has used whey for this purpose, for three years, drawn in more. with excellent success. These dishes should be used during the active season of the bees, and as my shoulder, and only move it from shoulder placed at nightfall, and removed or covered, early in the morning.

If any of our readers know of a good protection against the bee moth, we should be pleased to hear from them.-Bost. Cult.

CRADLING.

BY A CHURCHILL.

readers a disquisition on the art or mystery of Mix them together, and boil them in a cutting grain with a cradle, for none would pay attention to it. Every man who swings the cradle is fully satisfied that he knows best how to do it, and can cradle a little more than any other triffe more than sixpence! Just try the man; and though he swings it in such a way experiment.-Shropshire Conservative.

They then change to the that all others knows he is working much harder 'any other man can cradle. In fact I never could Remedics .- Various are the remedies and the teach any one to swing his cradle as easy or lay few of which, if any, have proved effectual against a boy to cradle until I had chased him down and

But I took my pen with the intention of des-

A man with a cradle on his shoulder feels as Many hives have been invented and patented, conscious of his superiority and consequential nobility-and why should he not? he knows that is to be spilled, he is determined that some sweat shall flow from those who attempt to cradle by his side; and I am sure that in nine cases out of ten the raker must sweat to untangle the grain which he tears down.

> But you will occasionally find one cradler, who cuts his grain level, lays it even, and all in his own swath: one who swings his cradle as if it were a part of himself; such a one it is a pleasure to see work.

My rule for building a cradle is as follows: give the snath so much crook that when the nib is on, a line from where the left hand holds the A gentlemen who paid much attention to bees such-past the centre of the nib, will strike the of the snath and place the spot which you would naturally hold in the left hand to the knee. In this position of the snath, the scythe should lie flat on the floor, and in this position bore the port hole perpendicularly. Upper fingers six

In cradling I carry my left hand nearly as high to shoulder.

Avon, April, 18-15.-Frairie Farmer.

Plum Pudding for the Million.-Take half a pound of flour, half a pound of currants, half a pound of grated carrots, half a pound of grated potatoes, a quarter Messrs. Editors :--- I shall not inflict on your of a pound of suet, and a little seasoning. basin an hour and a half. You will then have an excellent plum pudding for a

It gives us great pleasure in notice that the friends of agricultural improvement in the Midland District have lately adopted a Constitution, by which the parent and branch Agricultural Societies are so closely connected in interest, that their united efforts cannot scarcely fail in elevating the condition of the agriculturist of this old and populous District to a high standard of excellence. There is much to admire in the principles of this new Constitution, and we therefore give it insertion, as a guide for others. Although no mention is made of the liberal support which is given to the agricultural press, by this old and popular Association, it might not be thought out of place to mention the fact, that in addition to each of the members of the society being supplied with a copy of the Cultivator, twenty-five copies are subscribed for, and sent gratuitously to each branch Agricultural Society in the District. The extra copies that the branch societies receive, are paid for with their own funds. Such an example of liberality as the one in question has in no instance occurred in this province, and we trust that the officers of the Midland District Agricultural Society will never have occasion to regret that they have established their Society on sound, broad, and philanthropic principles, and that they have given an unexampled liberal support to the agrieultural press.

The plan of helding the regular meetings of the District Agricultural Societies, at the time and place of Sessions of the District Councils, is in our opinion wisely calculated to advance the interests of such institutions; and in all cases where Township Societies are organized and act in concert with the Parent Society, it is almost indispensable, that regular meetings should be kept up as often as once per quarter; and by selecting District Councillors, when they are efficiently qualified to perform the duties of a Director in an Agricultural Society, full meetings may be kept up without any cost, and by this means the ball may be kept constantly in motion :—

CONSTITUTION OF THE AGRICULTURAL SOCIETY OF THE MIDLAND DISTRICT.

Articles :

No. 1.—One General Agricultural Society, to be formed in the Midland District, called "The Agricultural Society of the Midland District," having Branch Societies in the several Townships.

No 2 — The Members of the Society shall caustic, and corrosive to the skin, consist of all persons who pay an Annual Sub- plied at the precise spot, on the pois scription of not less than five shillings, whether to the tip of a camel's hair pencil.

paid to the Funds of the Society, or to the local Funds of any Branch Society.

No 3 — The Officers shall consist of one President, one Treasurer, and one Secretary; annually chosen, together with three Delegates from each Branch Society, all of whom shall form the Board of Directors, who shall have power to regulate the business of the Society and control its Funds. —Seven to form a quorum.

No. 4. The General Annual Meeting of the Society, for the Election of Officers, and the auditing of the Treasurer's accounts, shall be held at the Court House, Kingston, on the second Wednesday in May, at the hour of one o'clock, P. M., in every year; at which a show of hands shall determine the choice, unless a ballot be demanded, which shall be conducted in the ordinary method. The Treasurer's accounts shall be audited by a special Committee of three persons, to be chosen by the meeting. The President shall have power to call special General Meetings of the Society.

the Society. No. 5.—The Meeting of the Board of Directors shall take p'ace Quarterly, in the Court Honse Kingston, on the second Wednesday in the months of February, May, August and November, at which time the ordinary business of the Society shall be transacted. The President shall have power to call Special Meetings of the Board.

No. 6.—One Branch Society may be formed in each Township in the District, with power to elect Officers and make Bye-Laws, provided such Officers and Bye-Laws are in accordance with this Constitution.

No. 7.—The Treasurers of the several Branch Societies shall pay over annually to the Treasurer of the Society, on or before the last day of the August Sessien of the District Council, the amount of subscriptions received in or for his Township for that year, together with a list thereof, and the names and places of residence of the subscribers.

No. 8.—The Treasurer of the Society, as soon as is convenient, after he has received the Annual grant of money from the Government, shall return to the Treasurers of the Branch Societies, the several sums received by him, together with such further sums of money, out of the general Funds of the Society, as shall be annually voted by the Board of Directors, at their Quarterly Meeting, held in August.

No. 9.—The Officers of the Branch Societies shall forward to the Secretary of the Society, a detailed account of the receipts and expenditure of their several Societies to be laid before the Board of Directors, ten days, at least, before the Quarterly Meeting of the Society in November.

The sting of a Bee, it is asserted, owes its poisonous nature to its being an acid; and therefore liquor potassia, by neutralizing the acid, becomes one of the best remedies. As it is very raustic, and corrosive to the skin, it must be applied at the precise spot, on the point of a pin on on the tip of a camel's hair pencil.

POTATOE PICKER.

In a former number we alluded to the fact, that an important machine has been recently invented in one of the sister provinces, by the aid of which a man and a span of horses can properly execute the work of twenty men, in picking potatoes; or in other words, three acres can be picked per diem with the implement. The inventor, Mr. Wm. Watts, Frederickton, N. B. has lately secured a patent, which extends throughout British America, and we therefore now feel at liberty to bring his extraordinary machine more prominently before the public.

In a letter dated 26th Dec. last, Mr. Watts writes us as follows: " I have been for some time engaged in agricultural operations on a small scale, and finding the usual process of digging potatoes exceedingly tedious and unpleasant, my attention was turned to the construction of an implement by which time and labour might be saved. In this I have succeeded beyond my expectations, and have perfected a machine which, with the aid of a pair of horses, will enable one man to perform the labor of at least twenty men, or dig three acres of potatoes in a day, the tops being first removed and carried off from the ground to be operated upon. Several practical farmers have seen it in operation, and there has been but one opinion among them as to its being a most efficient implement, and a great acquisition to the agriculturist-the greatest, perhaps, with the exception of the plough, of any instrument in use."

We have consented to act as agent, to introduce Mr. Watt's potato pickers in Canada West; and as we have ordered one for our own use, shall shortly have an opportunity of giving it a fair trial, the results of which will be laid before the public at an early period. In the meantime we would state, for the information of our readers, that the cost will not exceed $\pounds S$ each, and probably less; and that we shall attend to any orders that may be sent to our address, Newmarket, provided that the money is accompanied with the order. The latter condition, to meet with success, must invariably be observed.

Top dressing for Wheat-Salt; salt and lime; we get for our paper, and we would be salt, here and ashes; soot, soot and ashes, make excellent top dressings for wheat. If salt should be applied alone, 2 bushels to the acre, is the proper quantity: if salt and lime, 2 bushels of salt thas a right to expect a similar favor.

and 10 of lime should be sown to the acre: if soot alone, from 10 to 20 bushels per acre, and if soot and ashes, 10 bushels of each will form a most valuable mixture.

A certain Secretary of a County Agricultural Society in one of the Western Districts of this Province has thought proper to address himself to us in the following language: "I beg leave to say, that unless some attention is paid to the Society to which I belong as Secretary, I shall immediately advance a proposition to throw up the B. A. Cultivator, and subscribe to another." For the information of the gentleman, we would state, that if he thinks proper to take umbrage because we did not comply with his unreasonable request to insert the local proceedings of the Society to which he is the Secretary, he is quite at liberty to carry his threat into execution.

We are quite resolved to give insertion to such proceedings of local Agricultural Societies only as are calculated to interest and instruct the general reader.

If any Agriclutural Society or individual feels disposed to communicate any useful instruction to the agricultural classes, upon the practice or science of agriculture, such a medium of communication as ours is wisely adapted to give such information a wide circulation, and at the same time promote the important cause of Agricultural improvement. Such proceedings are at all times desirable; and whether they are sent us in manuscript, or we meet with them in the local prints, we shall ever feel it a pleasure in giving them a place in our journal; but in no instance shall we be threatened or coaxed to fill our sheet with matter of a purely local interest, unless the interested parties pay us at the regular advertising rates. Rather than comply with the wishes of those who are governed in their actions by self.sh motives, we would prefer that such parties should " throw up" our Journal " and subscribe to another." As a conductor of an agricultural press we fancy that we know our duty,-our business is to benefit all without affection or favor. We give full value for the paltry wholesale subscription we get for our paper, and we would beg our sensitive friend to remember, that he has no more right to expect advertising done gratuitously in. our journal, than a man in the mercantile trade'

TO ANALYZE SOILS.

1st. Take a small quantity of earth from different parts of the field, the soil of which you wish to ascertain, mix them well together and weigh them; put them in an oven heated for baking bread, and after they are dried, weigh them again; the difference will show the absorbent power of the earth. When the loss of weight in 400 grains amounts to 50 this power is great, and indicates the presence of much animal or vegetable matter; but when it does not exceed 20, the absorbent power is small, and the vegetable matter deficient.

2nd. Put the dried mass into a vase, with onefourth of its own weight of clean water; mix them well together; pour off the dirty water in a second vase, and pour on as much clear water as before; sur the contents and continue this process until the water poured off is as clear as that i What remains, in the first i poured on the earth. employed vase after these washings is sand, silicious or calcarious.

3rd. The dirty water, collected in the second vase, will form a deposit, which after pouring off the water, must be dried, weighed and calcined, that is, reduced to a powder. On weighing it after the process, the quantity lost will show the quantity of animal and vegetable mould contained in the soil.

4th. This calcined matter must then be carefully pulverised and weighed, as also the first deposit of sand, but without mixing them. To these, apply separately, sulphuric acid and what they (the earths and acids together) lose in weight, indicates the portion of calcarious earth contained in the first vase after deducting the lime is silex; that in the other, alumina. Carbonate of lime, termed calcarious earth, is composed of 55 parts of lime and 46 carbonic acid; this acid is displaced, and driven off bo the muratic acid, in consequence of its stronger afformies for the vase. Hence if the earths and acid weigh 45 grains less after the mixture than before, supposing the quantity experimented upon to be 400 grains, it shows that 45 grains of carbonic acid have been driven off, and that the soil contains 25 per cent. of calcarious earth, or one-tourth. The proportion of should you deem and commence will oblige this earth in good soils, varies from 10 to 30 per eent.-Prac. Far.

HOMCEOPATHIC TREATMENT OF HORSES.

BY W. H. SMITH, V. S., OF PHILADELPHIA.

To the Editor of the Spirit of the Times.

Sir,-I find on perusing the " Spirit" of 22nd instant. an account of the successful homeopathic treatment of glanders and farcy in horses, in Europe. I cannot express the satisfaction it has given me, as it now enables me to lay before the readers of your valuable journal, facts which l have long wished to make generally known.

ome experiments on cases of this loathsome and hitherto incurable disease, and must say that the success I have met with, has been beyond my utmost expectations. The first case I will cite. is that of a bay horse, six years old, given me for homeopathic experiment, affected both with glanders and farcy. The remedies employed in this case were dulcamara mercurius solubilis hepat sulphuris, acidum phosphoricum, and silicia in the sixth dilution. In two weeks from the commencement of the treatment, I had the satisfaction of observing a marked improvement in the symptoms, which gradually continued. At the end of three months he was perfectly cured, except a thickening of the integuments of the near hind log, which had been covered with alcers called farcy buds. This I removed by thuya in the third dilution, given every other day as M. Leblanc describes, two. or three drops in a small quantity of sugar of milk placed upon the tongue. I refused frequently for this horse £300, from a gentleman who saw him in the worst stage of the disease, and who witnessed the progress of of the cure. He is now owned by a gentleman of this city, and has never had an hour's sickness since he has been in his possession-upwards of three years.

A sorrel horse, aged, was attacked with glanders: with the aid of the above remedies, I effected a complete cure in six weeks. During the last four years I have treated fourteen cases of glanders, and twelve of them successfully, in from one to three months. I have in my possession at this time, a horse twenty-two years old :--one of the twelve above named-it is now two years since his recovery. He never was in finer health or condition than at the present time. This will conclusively show that glanders and farcy are diseases within the control of homeopathy, and that hundreds of valuable animals have been sacrificed. During the last four years, I have treated every disease to which the horse isliable. on the same princip'e, and the result proves the fact, that diserses thus treated are cured in a much less time, and with little or no loss of condition to the animal.

Should you deem this communication worthy me by inserting it. I have kept a diary of all the cases worthy of note that have come under my care, and shall feel most happy in giving you some of them in detail.

I remain, dear sir,

Yours, respectfully, WM. H. SMITH, Vet. Surgeon.

To render Boots Waterproof.-Boiled oil, 16 parts; turpentine (spt.,) 2 parts; bee's-wax, 1 part ; resin, 1 part ; turpentine (Venice,) 2 parts. Melt, and use hot.

Botany Bay Cement for China.—Yellow gum, 16 parts; fine brick-dust, 17 parts. Mix.

Common Bottle Cement.-Resin, pitch, ivory-In the spring of 1841, 1 was induced to make [black; equal parts. Used to secure the corks.

MISSOURI CAVE.

souri. The following interesting particulars are ter. First abate the inflammation by hard bleedrelated in the 'Giasgow Pilot,' by a person who ing, physic, and the application of cold lotions to had explored this wonderful place to the distance the part. This will sometimes disperse the of some hundred yards. After entering the cave swelling. If it matters, hasten its form tion with with a lantern, the writer says :

r nau not proceeded far, before i entered the brocations, then open the swelling so that the principal chamber that by a single light presented whole of the matter should run out and continue the most magnificent scene that I ever beheld. to do so. This is done by a seton. Keep it The ceiling of this splendid cavern is some eighteen or 20 feet high, and cf a heetagon form, the whole ceiling presenting a shining surface, as though it was set with diamonds." was set with diamonds."

"The head, neck, and the body are entirely finished, and part of one hind leg and all the rest in solid stone. The neck is made of three pieces, and stuck or fastened together something like cabinetmakers put the corners of drawers together (dovetailed) the rest is all solid."

In another part of the cave, the walls on one side are very smooth. On these walls numerous letters, figures, and hieroglyphics appear, most of which, however, are so defaced as to render them unintelligible. Nevertheless, the figures 1, 2, 6, and 7, are quite plain. Just above these figures the letters DON and CARLO are legible. Farther on, the letters J. H. S. appear on the wall.-An arm of the main cavern has a so been discovered, and has been explored some 200 yards.

"The walls and ceiling of this extraordinary cave are pretty much the same as in the other rooms. The walls have a peculiar and extraordi-nary brilliancy, occasioned I discovered from the fact, that instead of stone as we first believed, we found to be of metal very much resembling sulphate of iron, but more of a silvery appearance. We had not proceeded very far before we heard a rumbling noise that occasionally broke out upon our ear in notes the most thrilling and meledious I had ever heard. We stood a considerable time in breathless silence to catch the most enchanting sounds that ever greeted the ear of man, and it was only at-au interval that we could summon courage to explore its source, which we did, and were much surprised to find it proceeded from a gushing spring in the side of the wall. The sounds we heard we found to be produced by the fall of water, and varied by the current of air before alluded to, which we then found to be very strong. We each took a hearty draught of the limpid water of this gushing spring, and after surveying the diamond wall of the greatest natural curiosity in the world, we commenced retracing our steps to its mouth, when we found it to be quite dark, and eight o'clock at night."-N. Y. Far. & Mec.

To improve the Flavor of Coffee .-- To each pound of roasted coffee add forty to fifty grains of carbonate of scda. In addition to improving the flavor, the soda makes the coffee more healthy, as it neutralizes the acid contained in the infusion.-Am. Ag.

Poll Evil.-This disease sometimes proceeds In our last number we noticed a remarkable from the horse striking his poll against any hard rave recently discovered in Howard County, Miswarm fomentations, poultices or stimulating em-"I had not proceeded fur, before I entered the brocations, then open the swelling so that the as set with diamonds." Very near the mouth, another writer says there some instances.) Take finely pulverized flint is a stone shaped like a horse, but not so large, be-ing only about three feet high: "The head, neck, and the belv are entirely fine the data a fine which will be belv are entirely fine the data a fine which will be belv are entirely fine the data a fine which will be belv are entirely fine days; after which take one spoonful or more of the mixture, well shaken up, and put that much into each ear, once a day for three, four or five days.-Prac. Far.

> Hollow-Horn in Cattle .- Having seen in your valuable paper several articles upon the hollow-horn in cattle, I have thought that it might be useful to relate an instance of that disease and its cure, which came under my observation about five years ago. A cow in my care was most violently attacked by the disease, and, in spite of the usual mild remedies, declined so much in a very few days as to be unable to get up or stand. On going out in the morning, I found her body much bloated, her limbs distended and stiff, her eyes set and glassy, and apparently nearly dead. The next morning I took my knife for the purpose of skinning her, but, on going to her, I found her still alive. The following morning I went to her again for the same purpose, but, to my surprise, she was still breathing. I then thought her a fit subject for experiment. With a three-eighth inch spike gimblet I bored a hole through the centre of her forehead, about an inch below a direct line running between the horns. I found her head perfectly hollow and dry. I then poured into the hole I had made, a large spoonful of vinegar, made thick with black pepper, and left Before night she began to recover. her. The next morning she was on her feet, and with careful nursing only she was

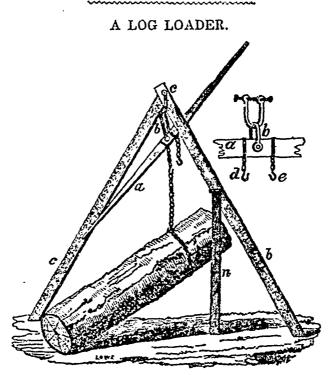
in a few days apparently perfectly well. AN ILLINOIS FARMER.

-Louisville Journal.

BACK VOLUMES OF THE CULTIVATOR .- We have ply that number of new subscribers with the prebeen frequently asked the question, whether we sent volume from the commencement. could supply the whole of the back volumes of state, that we have a few hundred sets of volume the lowest rank of prizes in each class. They only five shillings, being the former price of a competition among the farmers, and would more or agricultural societies, we make the very liberal research, which have hitherto been too much nediscount of 25 per cent, or in other words, charge glected in this province. only 3s. 9d. for two volumes bound in one, when more than one book is purchased. In addition to

Agricultural Societies would confer a lasting the British American Cultivator, bound, and at blessing upon their members if they would adopt what price ? In reply to such enquiry, we would the plan of awarding cheap agricultural works as 2 and 3, neatly bound in one, for which we charge would by this means aid in creating a spirit of single volume unbound: and to persons in trade, especially awaken a zeal for improvement and

To prevent Tooth-Ache .--- Wash the mouth the above, we have on hand 3000 full sets of the with cold water every morning, and rinse it after back numbers of the current volume, and can sup- every meal.



which great labor and much time may be saved,

It conists of a double acting lever, a, 10 feet the other alternately. long, suspended in the middle by the clevis, c, which is hooked in the clevis, the bolt of which passes through the upper end of two shear poles, which admits them to open and shut, as best from the fulcrum, connected to the staple by a link and swivel, which enables the hooks to be turned in the links of the chain either way.

The shear poles may be of a length suited to the weight and height of the object to be raised. effect a cure. For loading logs on a wagon, they should be 61 pole should be set against a pin in one of the which we add indigo, treated in the same man-other legs. The machine is to be placed over ner.—Prairie Far.

A Log Londer.—With this I send you a sketch; the object to be raised; a chain is then to be of a very simple and useful machine, both in the placed around it, one end of which is fastened to farming and mechanical arts, by the means of one of the hooks of the lever, the lever is then worked, and the hooks to be hooked one below

> V. H. HALLOCK. Milton, N. Y., April 22, 1845.-Am. Ag.

To cure a Snake Bite .- An exchange paper suits. The hooks d and e are placed 21 inches says that the bark of the yellow poplar, bruised, made into a poultice and applied to the woundat the same time that the wound is bathed with a strong decoction of the same, and the patient given half a pint to drink every half hour, will

Charcoal made into a paste with hog's lard and feet; if it is a short or round object, a third shear changed often, is also pronounced sovereign. To

PROCRASTINATION.

"Going! Going! Be in time! Be in time!" AUCTIONSER.

Friends:—Always bear in mind the above words of the auctioneer; many a glorious chance is going; many a fine day shines o'er us when we too frequently forget " to be in time" and sinks deep into eternity never to be recalled by mortal man.

" In vain we war with nature's force ; Time's rapid ear pursues its course, Nor wisdom, nor ambition's pow'r Can stop the quick revolving hour."

To those whose energies are always active, and whose minds comprehend in some degree the position which they hold on earth, I would merely offer my text as a gentle stimulus to their continued useful industry: but to the inanimate, the sluggard or the idler, I would shout loudly as the auctioneer does—Going! going! be in time!" and if I succeeded in awakening him from his lethargy, in the most humble manner and with the greatest caution to respect what I conceive to be his rights, I would request his attention to the many evils which can be so readily seen around us, caused, as I believe, through the want of punctuality and the proper self-dependence of each individual.

Many a fortune has been lost through procrastination; and Oh! how cutting must be the feelings of the disappointed one, who would frequently exclaim—" If I had only been in time," " only just a little sooner and all would have been well;" But no! I lingered still without a care, thinking, as usual that it could not be so late; but now, alas! I have found the truth, that " time and tide wait for no man,' and I am ruined."

Let us then bear in mind that good old saying, "Never put off till to-morrow that which ought to be done to-day," and we can go to bed every night with easy minds, satisfied that we have performed our duties, and the better prepared for our next day's labor. By making good use of every moment of our time do we not enjoy more of our life ? Do we not lengthen our days? And, above all: do we not the more benefit ourselves and fellow creatures?

Farmers are frequently reminded by agricultural works to attend to the repairing of their implements, to the putting of things to rights in the stables, barns, etc., in wet weather, but it is to be hoped now that the majority of them need not this advice, though, still there is no harm in repeating it.

I feel well aware of the many difficulties which a farmer in the West has to contend with, and the many drawbacks which he experiences in his progress: the more need then for his energy; and such hardy pioneers must not be daunted, but with heart and soul turn to their work. It is not for themselves alone that they labor, but also for generations yet to come. We now stand and contemplate over a splendid city and think of the activity and industry of our forefathers. Generations yet to come will travel to some elevated spot and contemplate o'er the rich and fertile valley which their ancestors had reclaimed from dark and mighty forests—not the work of the idler, not the work of the gossip ; but, the work of the industrious and energetic.

So many good things result from industry that we are sure the employment of the poor in our large c ties and densely populated countries would materially decrease crime. Industry, too. is the best thing to make honest men and women ; when they are usefully employed their attentions are taken off the continual criticisms of their neighbors' actions, they have not so much time to sit in judgment upon other people's conduct, they therefore are not troubled with so many bad feelings, so many jealousies, or aggrieved so much by that which does not concern them; besides, see what good appetites the industrious have, how they enjoy a simple meal, and for rest, nothing can equal the rest of a weary man, it seems the greatest blessing he can enjoy; the luxurious noble or pampered aristocrat can never experience such sweet sensations.

When a man is unfortunate and distressed will men run to his aid when they see him standing idle, grieving over his position? No! Would even benevolent individuals strive to get his wagon out of the mire when he stood by and looked on? No! Then a man must help himself, "God helps those who help themselves."

Rouse then ye sluggards? Rouse ye drones, and be industrious. Industrious men are punctual men; punctuality in men saves fortunes and lives; industry and punctuality prevents procrastination: then a great evil is avoided, and the existence made happier and healthier.

Delay no longer but "be in time," plow in season, gather in season, and last, but not least in importance, send in your *twenty-five* cents for the Plow Boy, then will peace and contentment be your reward.—*Plough Boy*.

A nice and wholesome Sweetmeat for family use.—Pare, or not, as you choose, a quantity of sweet apples, to fill an earthen or scone jar; add a little sugar or molasses, and if the apples are not sufficiently juicy, a little water; cover with a thick paste of flour and water, and put into a brisk oven with your bread. Let them stand till morning. They will have the flavor of baked pears, and can be had fresh at all seasons.—Am. Ag.

Lemon or Orange Water.—Peel the outside rinds from oranges or lemons, pound it fine in a mortar, and pour boiling water on it, and cover it close when cold; bottle for use as a substitute for essence.

Brawn or Head Cheese.-Blanc-mange.-Pig's-foot Oil.-Sore Throat.-Souse.-in a far- process is clarifying, which is done thus: Break mer's kitchen the stale adage is often verified, the white of an egg into a preserving pan; put "God made nothing without its use," and the farmer's wife can testify there are various uses to which one thing often may be applied. An instance I can supply from my late country observations. Boil pig's feet-a dozen of them if you have them-for several hours, till the bones can casily be removed. Strain the liquor from them and set aside to cool. Remove the bones carefully, and reserve equal portions, if you choose, for souse and brawn or head cheese.

To make the latter, chop moderately fine, add sage and thyme, or sweet marjorum, plenty of pepper and salt, and if you like, a trifle of spice and a glass of wine. Tie all firmly when well mixed, into a crash cloth, which must first be well : wrung in cold water, and let it stand in a press, twenty-four hours. You have then a handsome mould of head cheese.

A delicate blanc-mange, not inferior to the best isinglass, may be made of the jelly formed by the liquor when cold. From this you must first skini every particle of oil, which must be carefully preserved as it forms-

An excellent remedy for sore throat or croupy affections, externally applied, or simmered with molasses and vinegar, to give your children when the case demands it before retiring at night.

afford an equally good jelly for blanc-mange.

To make souse, add to the feet when well boiled, the pig's head. After boiling three or four hours, remove from both all the bones, and place the whole in a stone jar. Boil in vinegar a few cloves or any other spice, with pepper and a little salt; mix with this a little of the liquor in which they were boiled, to prevent too great acidity, and with it has acquired the proper degree of crystallization : this liquid cover the meat. Cut in slices when if otherwise, boil it again until it acquires .hat you use it, and after beating in a frying-pan, pour brittleness. off the liquid and brown it; or if you prefer, dip the slices in batter and fry in a pan rubbed with carmel sugar; to obtain which it must be boiled butter or lard.-Am. Ag.

Foot Rot.-C. W. S., in the English Agricultural Gazette, directs that the hoof be cut away sufficiently at the lower part will burn and discolour the sugar. to permit the escape of any matter that may be confined, and that the diseased fine charcoal, and Armenian bole. dirt and moisture are prejudicial.

To prepare Sugar for Candying .--- The first to it four quarts of water, and beat it with a whisk to a froth. Then put in twelve pounds of sugar, mix all together, and set it over the fire. When it boils, put in a little cold water, and proceed as often as necessary, till the scum rises thick on the top. Then remove it from the fire, and when it is settled, take off the scum, and pass it through a straining bag. If the sugar should not appear very fine, boil it again before straining it.

To Candy Sugar.-After having completed the above first process, put what quantity is wanted over the fire, and boil it until it is smooth enough. This is known by dipping the skimmer into the sugar, and touching it between the forefinger and thumb; and immediately on opening them a small thread will be observed drawn between, which will crystallize and break, and remain in a drop on the thumb, which will be a sign of its gaining some degree of smoothness. Boil it again, and it will draw into a larger string; it is now called bloom sugar, and must be boiled longer than in the former process. To try its forwardness, dip again the skimmer, shaking off the sugar into the pan; then blow with the mouth strongly through the holes, and if certain bladders go through, it has acquired the second degree. To prove if the liquid has arrived at the state I see it lately asserted, that cattle's feet pre- called feathered sugar, redip the skimmer, and pared in the same way for boiling as pig's feet, shake it over the pa , then g ve it a sudden flirt behind, and the sugar will fly off like feathers.

It now arrives to the state called crackled sugar; to obtain which the mass must be hoiled longer than in the preceding degree; then dip a stick in it, and put it directly into a pan of cold water, draw off the sugar which hangs to the stick in the water, and if it turns hard and snaps,

The last stage of refining this article is called longer than in any of the preceeding methods; prove it by dipping a stick first into the sugar, and then into cold water, and the moment it touches the latter, it will, if matured, snap like glass. Be careful that the fire is not too fierce, as by flaming up against the sides of the pan, it

Making Jelly. - Those who would part be touched, by means of a feather, make fine jelly should always avoid with a little hydrocloric acid, which may, boiling the juice of the fruit, when it is he repeated if any fungus flesh grows desirable to have the article, when made, on the part ; if otherwise, the sore may | retain the flavor of the fruit from which be dressed daily with a powder composed it was prepared. After the juice is pressof equal parts of sulphate of copper, alum, |ed from the fruit, and the proper quantity The of sugar added to it, let it be heated until sheep must be kept in a clean dry place ; the sugar is dissolved ; after this is effected, no further heat is required,

Extraordinary yields of Wheat.-Professor Colman, in the second part of his European Tour, says :--- " Another witness, before a Parliamentary committee, testifies, that on the estate of Lord Howard, Barbot Hall, in Yorkshire, a rood-a quarter of an acre--of land was dug and planted with wheat by his lordship's direction, and 28 bushels of wheat were obtained, which would be at the extraordinary and unheard of rate of 112 bushels per acre.

" The authenticity or rather accuracy of such a statement as this may well be questioned, but I have the pleasure of presenting one, exhibiting a most extraordinary yield, on which full reliance may be placed.

"In visiting Horsham, (the last summer,) in the county of Sussex, my attention was strongly attracted by two small pieces of wheat in a garden by the road side, exhibiting an extraordinary luxuriance; and I have been able to obtain a detailed history of its culture and yield, through the politeness of C. S. Dickens, Esq. of Coolhurst, near Horsham.

"The seed of this wheat was brought from Australia, being the product of some wheat which had been sent there two or three years before. The quantity of land sown, in one of the pieces. was 34 square yards. The wheat was dropped in rows 9 inches apart, and in holes 6 inches apart, and only 1 grain in a place. The number of grains planted was 632, out of which 33 failed in germinating. The cultivator obtained 4 gallons of good wheat from the land, exclusive of several of the finest plants which he saved. The usual number of stems from each seed was 18 to 20, a considerable number gave 30 to 35, and one was counted which had 40 full sized stems, and 3 of a smaller size. The product was at the rate of 71 bushels to the acre."

Select a tree furnished with blossom buds, air and never die in the house-the windows just as they are beginning to expand.-Take a potatoe fork, and with it make holes all over the surface of the space head of the cabbage; put the parts in a occupied by the roots, heaving the earth keg, sprinkle on them a good quantity of by pressing on the handle, and having salt, and let them remain five or six days. dissolved 1 oz. of nitre to 3 gallons of To a gallon of vinegar put an ounce of water, fill the holes with a solution. No mace, and one of pepper corns and cinmanure must be given. Should, after namon. Cloves and allspice may be stoning, the tree appear unable to sustain added, but they darken the color of the the fruit, the following preparations may cabbage. Heat the vinegar scalding hot, be applied in the same manner. To I add a little alum, and turn it while hot gal. of blood add 1 gal. of water and 1 on the cabbage, the salt remaining. oz. of potash. Stir the whole well 10-, is necessary to turn the vinegar from the gether, and when it has settled, pour off cabbage several times, and scalding it, the liquid, and mix 1 gal. of this liquid return it again while hot. This makes with I gal. of water, and pour into holes them tender. made in the manner already described. heads not large, but fine and firm, are -Gard. Chron, best for pickling.-Alb. Cult.

Agricultural Anecdote .--- Furius Creainus, as mentioned by Pliny the Roman historian, was originally a slave. Having been made a freeman, he purchased a small lot of ground, from which he obtained through his unwearied industry, much finer crops than many of his neighbors, who had much larger farms. This excited general envy, which his enemies carried to such a length, as to accuse him of employing magic charms to render his grounds fertile and to impoverish theirs. The edile caused him to be summoned to appear and answer the charge before the people of Rome. Cresinus obeyed the mandate, accompanied by his daughter, a fresh and healthy colored girl, charms which appeared to greater advantage from the simplicity of her dress. The accused also brought with him the tools and implements of his profession. His mattacks were remarkably heavy; his plough was of an enormous size, and his cattle were all sound and fat, "Behold !" said the truly dignified farmer, "behold my whole magical equippage ! behold the charms which I have recourse to! There are others, indeed, which I am not capable of producing before you -I mean the sweat of my brow, and the incessant toil both of day and night !" This native eloquence decided the matter; he was honorably acquitted by the unanimous voice of a numerous and applauding assembly .-- Southwestern Far.

To Destroy Flies .- A correspondent of the Cincinnati Chronicle gives the following :-

It is perhaps not generally known that black pepper, not red, is a poison for many insects. The following simple mixture is the best destroyer of the common house fly. Take equal portions of the fine black pepper, fresh ground, and sugar -say enough of each to cover a ten cent piecemoisten and mix it well with a tea spoonful of milk, a little cream is better,-keep that in your room and you will keep the flies down. One advantage over other poisons is, that it injures no-To secure the Fruiting of a Tree. - thing else; and another that the flies seek the being open.

> Pickling Cabbages.—Quarter the firm lt Purple cabbages, the

BUTTER.

We have no sympathy with those farmers who complain of hard times, and yet make no personal effort to remove them from their own shoulders. Numberless instances of neglect and bad management occur in their operations, which, if guarded against, would afford a ready and profitable sale to their products; but now, will either not sell at all, or at a price which does not at all compensate f r the labor and money expended on them. P shably in no article of farm production is this more clearly manifest than in the greater proportion of butter which is made in the interior of this country, and especially at the West. The soil yields good grass, unexceptionable grass; and the cows yield good milk, unexceptionable milk ; which, in its turn, yields good cream, and the beginning of unexceptionable butter. But the moment art steps into the completion of what nature has so happily begun, there is an end to perfection, unless it be to the perfection of blundering and mismanagement; and the whole operations of master and dairy maid, are, in the quaint phraseology of good old Tusser, " so slabbed and soft," that what might with care and good management, have been in the highest degree palatable, is made absolutely exectable. We have repeatedly been forced to notice the wretched stuff which passes under the name of butter, found in many of our farm houses and on most of the tables of public houses in the interior, --- and which has compelled us to limit our choice of eatables to dry bread and tea or coffee, rather [than poison ourselves with the addition of that miserable stuff, which is equally offensive to nostril and palate, and which plentifully besmears, every dish that can be spoiled by its presence.

With those who are content to use it at home, or can sell it to such of their neighbors for con- reading subjects of this kind, we copy it in our sumption, as can tolerate it on their premises, the loss is no greater than that of one of the good from it which may prove serviceable even here things of this life which might have been enjoyed by the same expenditure of labor, that an intolcrable article is provided.

But in sending the article to market, another result follows, which touches the miserly producer in a far more tender point, than in his taste. Choice butter sent to any of the large eastern markets, will command from 15 to 20 cents per lb. at wholesale ; while the wfetched stuff usually sent there, is worth only the price of grease, for which purpose, it is bought up in large quantities at from 5 to 7 cents per lb., and sent to England for various uses. Now lot us look at the statistics of this matter. The product of the dairy for Ohio and Indiana, were estimated, in the report of the Commissioner of Patents for 1842, to be, in round numbers, \$2,600,000. If we take one and a half millions of this for butter, n d allow one third of the whole quantity to be sent to market in bad condition, (and we think we are entirely within bounds, for though no states can make better butter, none certainly make worse than much of it which they export,) we have a difference of about 6 cents per lb., amount-l be required. Strain the milk into coolers, sweet

ing in this case to three hundred thousand dollars, which is annually lost to these two states, from the neglect of ordinary care and attention to this one article alone.

For the proper mode of making and packing butter for a near or distant market, we refer to numerous articles on this subject, in the former volumes of the Agriculturist; and we do not hesitate to say, that they are as complete and concise as anything ever written on this interesting subject. We will now merely state here, that the first requisite is, to have all the articles in use perfectly sweet, and in the utmost state of cleanliness. Milk pails, milk pans, churns, and butter bowls, should be scalded thoroughly, and scoured before using. The second is, to work out by a dab or paddle every particle of buttermilk. Some dislike working it in cold water, but if properly managed in other respects, we do not consider this objectionable. A third requisite is, to use the very best, perfectly pure salt, finely pulverized, and have this intimately blended with the butter in sufficient quantity to make an agreeable taste. The fourth is, to have the butter, as soon as ready for packing, carefully put down in clean white-oak firkins or stone jars, crowded so closely as to till up every part of them, and have the top carefully covered with a clean linen cloth, with salt one inch deep placed on this, and cold water enough added to make a brine. Then keep it in a cool place till ready for shipping.

Since the above was written, we have received our foreign journals of the past month, containing reports of the late proceedings of the English Agricultural Society. In these we find an article " on preparing butter for the London market ; and as the good house-wife is never tired of columns, thinking she may get a hint or two in our own country. Working butter with the hand, and some other things recommended in this article, may be admissable in the cool climate of Great Britain, but should never be practiced in this country.

" The following is the most approved method of making and preparing butter for the London market, and is submitted for the advantage of farmers and dairymen throughout Ireland. Butter made on this system, with care and quick dispatch, will ensure high prices and quick returns The agents comment on each dairy's butter, and improvements are still going on. The best land is old pasture, as free from weeds as possible, with abundance of good water. The cows should not be heated or tormented in any way; housed at night, and fed on green food, and the pasture changed when practicable. In milking, take saltpetre in the pail, one-eighth of an ounce to 8 quarts of milk. The dairy should be perfectly clean, airy, of equal temperature (say 50°,) very little light, and completely shaded from sun, by trees or otherwise; and in winter a stove may

and dry (never mix warm and cold milk,) keep it from two to four days, then put the whole of the milk and cream into a clean churn, which is not to be used for any purpose, except during the time it is in operation. Boiling water to be added to raise the temperature to about $68 \circ$ or $60 \circ$, if horse or water power be used. The time occupied is from one to two hours, depending on the size of the churn; but churning should not be continued beyond the proper time. After churning put the butter into two bowls or pans of pickle, made from pure wrter and fine-stoved salt (as common gives the butter a bad flavor.) It should be well washed, and the pickle changed frequently, until all milk is extracted, working with the hand the two pieces alternately, until the grain becomes quite close and firm; when it is to be cured with the finest dry-stoved salt and sugar. The proportion to be one ounce of refined sugar to one pound of salt, to be well worked into the butter with the hand; but the quantity of curing materials will depend on the time and labor given by the dairy-woman, in working and beating the butter (after the salt and sugar are applied,) which should continue until all pickle is driven out. The butter should be finished the day it is churned, and then be pressed as closely as possible into the cask. The cask should be well seasoned for some days previous, with strong pickle, frequently changed, or hot pickle; and must be strong and air-tight; the size is of no consequence, if filled and sent off in one week. If not filled at one churning, the butter is to be covered with pickle until the next; but no cask to contain more than one week's butter. If butter should, at any time, appear pale in color, after churning has commenced, a little grated carrot-juice may be put into the milk, and will not injure either milk or butter.-Am Ag.

Hydrophobia.—The Rev. J. Edwards, in a letter to the Editor of the *Peterboro' Chronicle*, gives the following receipt as a preventative against hydrophobia; and for the efficacy of which he cites apparently good proof:

Let, then, any individual who has been bitten by a mad dog, observe the following simple directions, and there will be no need of cutting and burning the wound, nor of fearing Hydrophobia.

1st. Burn some Oyster shells to lime, let them be well bruised and sifted through a piece of fine gauze or muslin.

2nd. Take for an adult, two table spoonsful (heaped measure,) of this sifted lime, and mix it up with eggs until it is of the consistency of batter for pancakes....Fry it in a pan, into which has been put a piece of fresh butter, or some sweet oil.

3rd. The pancake thus prepared, to be eaten in the morning before any thing else, and neither food nor drink to be taken for six hours afterward, when the usual diet may be taken.

4th. Three such cakes are to be taken in the same manner, on three alternative mornings.

Dressing for Asparagus —Give it salt and water every fortnight while the summer-shoots are growing; and when they cease doing so, cease salting also. Your stable-dung will no doubt prove a capital preparation, in addition, for the crop of next year, which will be much improved by not cutting this year. Add guano to the salt and water during this summer, the result will pay you. Nitrate of seda will not act well unless succeeded by wet; in dry weather it does more harm than goed. —Gardeners' Chronicle.

Hanging the Scythe.—Mr. Editor,—As something has been said respecting the rules for mowing, and the difficulty of delineating on paper directions that will be of much service, I would say, that the first step to be taken after one has procured a scythe is to hang it properly. Ι mean for actual use, "not on a tree." and this, I undertake to say, may be by a mathematical rule that is very easy and simple. The rule which I am about to give, is one that acoidentally entered my head about forty years ago, when I was but a boy; and one, which I have invariably followed ever since; and, am fully satisfied by experience, that it gives a scythe the most proper pitch in order to have all parts of it do their duty of any position a scythe can be hung. The rule is as follows: take a straight stick as long as your southe and measure the length of your southe from heel to point in a straight line; then measure the same length from the bettom of the heel up the front side of the snaith and make a mark, then extend the scythe in or out till the same length will just reach from the mark on the snaith to the point of the scythe, forming, as it were, an equilateral triangle.

This rule, I confidently believe, will give any scythe, lot its shape be very crooked or otherwise, the most proper and suitable pitch for performing work easy and well and giving every part of the scythe its due proportion of cut, of any rule that can be adopted; as to hanging the edge high or low much depends on the nature of the ground and the fancy and habit of the mower.

Respectfully yours,

JONAS CLAYES. Framingham, July 14, 1845. --Mass. Ploughman.

Real Value of Crops.—" A circum- Hovey's Szedling Strawberry.—This fine vari-stance most particularly to be attended ety, which was originated by Messrs Hovey & Co. to in the estimation of crops, and one far has obtained the highest premiums of the Mussa-too apt to be neglected, is, that bulk and chusetts, as well as many other Herticultural Soweight are not necessarily true indices cieties, for several years, as the best, taking it alof the real value, as they not always re-present correctly the amount of nourish-ment contained, and we need scarcely remark that the latter is the true object for which every crop is cultivated. ** five and a quarter inches in circumference. It has for which every crop is cultivated. * * five and a quarter inches in circumference. It has * * In some experiments related in Professor Johnston's "Elements of Agricultural Chemistry," the results are stated in 2 tables; 1st, the number of bushels of wheat, oats, and barley, ob-tained for each bushel of seed sown; and, 2nd, the amount of starch and gluten contained in 100 parts of each of the samples. The real value of the crop is, therefore, closely approximated by com-paring the two tables together. * * * In the experiments alluded to, cow-dunce strawberries set known to way. We help for the started is allowed to be the most splendid and valuable of all paring the two tables together. * * * allowed to be the most splendid and valuable of all In the experiments alluded to, cow-dung strawberries yet known to us: We look forward produced 16 bushels of oats for each to the time when this noble fruit will form the chief bushel sown; whereas night-soil (gene-rally esteemed much the strongest sidered, and we believe justly, the best and highest manure) produced only 142 bushels. flavored. Another reason that it will be preferred Arguing from this alone, therefore, one to all others here by the market-gardeners, is the would be apt to suppose night soil inferior facility it affords from its great size of easy gath-to cow-dung for oats, and in fact, without the aid of chemical analysis, such would have been the legitimate conclusion. When, however, the oats were analysed, during than those of the opposite kind. Scientific it was found that the grown with cow-sportsmen are, in a great measure, guided in dung contained 31 per cent. of gluten their opinion of a horse's racing qualifications by only, whereas the night-soiled specimen his girth just behind his shoulders; by this test, contained 5 per cent. Comparing these together, therefore, we arrive at the im-together, therefore, we arrive at the important conclusion, that whereas, by ers and butchers, in like manner, judge by the measure, the night-soil was to the cow-chests and shoulders of cows and pigs what dung as $14\frac{1}{2}$ to 16; when the real nou-rishment was ascertained, the proportions were $72\frac{1}{2}$ to 56, or as 12 to 9 nearly, for the facility with which they appropriate their showing a real increase of 4, where, by instrument; such animals will feed upon the the ordinary method, a deficiency of coarsest hay and straw, whilst their less fortu-about $\frac{1}{2}$ was apparently proved.—Dr. Madden, on the Adrantages of Extended Chaming Anglusic to Agriculture Chemical Analysis to Agriculture.

declared that " the animals eating was a mere nothing." The intelligence would, contrary to intention, have sufficed to ruin the prospect of Vomiting of Blood .- 1. Take two spoonsfel sale, but that the buyer, with a rare discriminaof nettle juice. This also dissolves blood congu- tion, inferred from the horse's chest that the capacity of his appetite had been unwittingly 2. Take as much saltpetre as will lie on half imistated. He bought him on the hazard of an a crown, dissolved in a glass of cold water, two opinion, and had no reason to repent of his judgement,-Medical Times.

lated in the stomach.

or three times a day.

Bridles .- The Duke of St. Albans having preconjoined with punishment effected by a sharp rectangular curb-chain, Mr. Shaw thought it might not be unacceptable for the Council to receive a'so a bridle intended for a horse of similar propensities, but less vicious and powerful, invented by Mr. Martin, and of which the principle introduced was that of impeding the horse's respiration. This was effected by a leather strap, each end of which is attached to the ring of the upper end of the bitircn, and being crossed forms a loop which passes over the horse's nose. On drawing the curb-rein, the upper ends of the bit-iron are projected forward, and carrying with them the two ends of the nese band, the loop is drawn tightly over the nese; the muscles which regulate the expansion of the nostrils rendered meffective, and the horse consequently unable to draw hs breath with that freedom which is essential to the increased respiration his going off, or continuing at speed would cocasion .---Col. Challoner remarked that he had observed, when in Italy, that the Neapolitan cab-horses were driven without bridles, by a simi ar contrivance, of Ploughman. the nature of a cavesson, commenly used in England for breaking hors s, being a leather band passing over the nose, lined inside with sharp studs, and furnished outside with two short projecting ringstems, to which the reius were attached, and the horse driven without the slightest inconvenience -Ag. Gaz.

Lime.-J. J. T. in the Albany Cultivator says that an oyster shell put into a teakettle, will prevent the coating of lime on the surface, by appropriating it to Our whole western country, with itself. the exception of the lake water, so far as we know, is strongly imprognated with lime; and in some sections it will incrust itself on the inner surface of the kettle, after a few boilings, as thick as the ket-painted with white paint and well dried, tle itself.

Agriculture in Lower Canada -- We learn from the Report of the legislative council committee on the population and property of Lower Cana-da, that the number of occupied acres of land is 7,540,450; of which 3,083,940, or nearly cae half are under cultivation. The produce in wheat, barley, rye, cats, peas, Indian corn, Lu kwheat, and potatoes, for the year 1843, was by far the largest crop. next oats, then barley, peas, buckwheat, &c. Of wheat the preduct was 914,909 bushels. There are in the province 63 colleges, academics, convents, &r, and 1557 elementary schools, making a total of 1619 educational estab ishments, attended by 56-578 pupi's. Of wool, 1,209,782 pounds were pro-duced in 1843, and 2,264,537 yards of fulled cloth, flannel, linen and cotton were manufactured. I Gaz.

Salt Sown to Kill Worms .- Mr. Wm. Tribou sented to the Council, at the previous meeting, a of North Bridgewater, tells us he has been sowing bridle for the effectual control of a strong and vici- salt among his cats for the purpose of killing the ous horse, in which the principle of leverage was worms that infested the soil. He ventured to sow s x bushels of cheap salt to the acre, with his seed oats, and he says he has never raised so fine a harvest at any time.

> He sowed grass-seed at the same time, and he says his grass has been as much benefitted as his cats-he can see a plain difference between that part of the field where he sowed salt two years ago and that where none was sown.

> Our readers may remember that we have advised to sow as many as five bushe's per acre in the spring, and gave an opinion that such a quantity would do no injury-that in the fall, cn fallow ground, three times as much may be sown with safety. We want more trials to determine how much may be sown in the spring with English grain.

> Mr. Tribou is satisfied that salt will destroy the common worms that infest our gardens and fieldsit may be that enough may be applied to kill every worm in a garden, if it is sown in September, when it will not be likely to injure vegetation.-Mass.

Labels.-I submit to your inspection.a specimen of a label which I have used both for pots and in the open ground for some years with as much convenience or more than any other I have met with. It fully answers the purpose intended, To prevent Tca Kettles conting with and every consideration of economy. The specimen sent is the smallest size I use, and has been in use four years, but of course the size can be varied to any extent. I use them from 3 to 8 inches in length, and of suitable width. Thev are cut with a pair of strong brazier's small shears out of a plate of zinc, and being cut intersectionally, a 2 foot plate will produce a great many, which being may be written on with a pencil when The writing may be renewed wanted. at pleasure by applying a coat of the same paint. I used to paint them all over, but I find it better to mercly paint enough of the top to carry the writing; for by the constant action of wet upon the paint in the earth it blisters and corrodes as is the case with the one I send.-J. K. [This was a thin triangular zinc label, measuring 3 inches in length and 1 inch in width at the top, where a small piece had been clipped off each corner to give the label a neat appearance. Gard.

Never-failing Recipes for Soap .-- Soft Soap. | -To 25 lbs. of clean fat, add 16 lbs. potash dissolved in four buckets of water, and boil it until the fat is entirely destroyed. This you must cest by taking out some of the soap in a clean cup. add a little water, and let it stand to cool. the soap becomes thicker and clearer by the addition of water, and continues so, the soap is done ; but should it become thinner and whitish, the ley has not combined sufficiently with the fat, and the boiling must continue until it will bear When it has arrived at this the water test. point, add water until it becomes a thick jelly, then let it boil one hour slowly, when it will be finished and fit to be barreled. The most fiequent cause of failure is, that the ley is not strong enough for the quantity of fat; therefore, when home made ley is used instead of potash, the ley should be strong enough to float an egg freely To each gallon of strong ley add three quarters of a pound of clean grease ; if cracknels be used, take one pound to each gallon. Boil it very fast, and stir it frequently. A few hours will suffice to make it good soap.

Hard Soap .--- Add salt in proportion of one pint to three gallons, let it boil a few minutes, and put it in tubs to cool. Should the soap be thin, try it in a cup if it requires water. If very strong ley be used, water is necessary to thicken it after the incorporation is complete; this must be done before the salt is added. Next Cay, cut out the sonp, melt it, and cool it again : this plan I have suggested more than once, takes out all the ley, and keeps when dried. The fat should be prepared before sonp-making day, by boiling it in clear water and straining out all the bones and flesh, as they give out but little grease and always make the soap impure. Be careful to save the bones and scraps thus left, as they form the best manure for of the turpentine as to prevent success. rose bushes, flowering shrubs, and peach trees. -Am. Ag.

Mr. M'Hannon, near Reading, Ohio, has given us his plan to measure a tree standing ; it is as follows :- Take two cr cinders of iron, p acediar und the roots of trees. to the ground, and the distance to the tree effect.-Gordeners' Gazette is the length of the stick of timber. This | or cutting building timber .- West, Far. of wool ashes or peerlash.

Is that man prospering, who spends every year more than his income? Is that farm well managed which is becoming less productive as the succes-sive crops are taken from it? We cught not to draw upon the fertilizing matter of the soil, which may be termed its effective capital, without returning an equivalent. The soil is generous, yet just. It will reward you according to your works, and there is no long delay before you are made acquainted with its decisions. With skilful and scientific menagement our farms may be made more productive and fortile than they were when first brought under cultivation. In too many instances, however, the first crops were the best, if not the only good crops which the farm has produced. We need not let the lever slip through cur hands until we are forced to pry with the short arm. Scine have thought it a trouble to save and apply their manure, because they cculd, for awhile, get good crops without it. The fertilizing matter of their farms has run to waste, their land has become impoverished, and now they cannot raise good crops withcut manure, and they have little or nen to apply. -Maine Far.

Destroying Wasps .- Your correspondent's plan of putting the spirits of turpentine into a bottle instead of a cup, is a decided improvement. If he has an oppertunity of doing so, would he try a m shrinking but do not know whether it has yet been tried? Let a small quantity be squirted into the hole as far as possible, and then let the hole be blocked up with clay. It is possible the soil may imbibe so much but the experiment is worth trying.-J. S. Henslow, Hitcham.

Iron a Remely for Blight in Pear Trees.-A Correspondent states, that he has found iron ere, sticks of equal length, no matter whether drives away the insect which deposits the eggs that six inches or six feet long, but about two produce the worm. Having tried this remedy in a feet is recommended; place the end of fr-m each other, and having driven off the insect one exactly in the centre of the other in when the trees of others were very much injured or the form of a T, by driving a nail through destryed in the neighborhed, he advises all these one into the end of the other; bevel off who are treubled by these insects to try the use of iron, rather than be under the necessity of continuthe end of the centre-pice, so as to take ally topping of the limbs which contain the worm, a true sight; hold the bevelled end to or young insect. He thinks it probable that the the eye, and step back till the bottom and iron is unfaverable to the worm, which arers fr. m. top ranges with the two places to cut it the branches, and makes its wintering place at the off, or as far as the timber will mark : rot of the tree, and then the insect avoids an unfa then measure plumb from the eye down the theory, it is sufficient that iron has the desired.

To prevent the Smut in Wheat.-Steep is very useful for persons buying timber. the grain in lime-water, or a weak ley

INFLAMMATION OF THE PALATE-LAMPAS.

The palate of the horse, although a fibrocartilaginous substance, is, and especially in young horses, very subject to inflammation. Until the are interesting. Trains of cars leave Boston and second teeth are grown, and sometimes after that, the bars at the fore part of the palate swell, and tons of merchandize, running at an average rate became hot and tender; and when they become on a level with the front upper teeth, or even extend below them, they seriously interfere with the feeding of the horse, on account of the pain load of this one engine by 1,200 and the number which he feels when the food presses upon them. of horses for 25 miles a day is 167. Four times He loses his appetite, or is afraid to eat, and the this number, or 668 could carry this load 100 food falls half-chewed from his mouth

The principle cause of this affection of the bars is the irritable state of the parts until the process of dentition is completed, and also occasionally some temporary indigestion.

is necessary. If it is merely a trifting enlargefew mashes, with one dose of laxative and two or thrown out, with the sap extracted, will be eaten three of fever medicine ; but if bars are level with voracicusly by the cattle. It contains no nutriment with cold water on the part.

bleeding in ordinary cases, for the quantity of incapable of fermentation and rumination." blood taken away cannot be measured, and in a very few instances, when the palatine artery has been divided, the bleeding has been arrested wih Vear.-Take of saltpetre one pound, of bole-arconsiderable difficulty. If, however, the incisions memor two pounds, of common sand, well freed are made about an inch from the front teeth, and from its earthy parts, four pounds, and mix all in The direction of a line extending backwards, together. After this, let the fruit be gathered from between the central and second teeth on with the hand before it be thoroughly ripe, each either side, not only will more blood be obtained, ruit being handled only by the saik : lay them because the principal vessels lie there, but, by regularly, and in order, in a large wide-mouthed means of a string tied round the front teeth and glass vessel; then cover the top of the glass with across the palate, a compress may be easily pla- an oiled paper, and carrying it into a dry place, set ced over the incision

the bars with a hot iron-a most injudicious and no part of the glass vessel shall appear, being in barbarous operation. The animal must be sadly a manner buried in the prepared nitre : and at tortured in order to burn down the enlarged bar. and after all it will not be perfectly done.

Connected with the lampas, and often existing at the same time, is what is commonly termed bags or washes, which is enlargement of the membrane hung the checks, and particularly dent in a former number, who applies for a temethat adjoining the anterior molar teeth, so that dy for the sting of a lice or wasp, that the appliwhen the horse attempts to masteate, this ment-leatien of a washerwoman's blue-bag, moistened, brane gets between the teeth, and occasions much his the best remedy, and acts almost like a charm pain. feeding, a portion of the membrane should be exposasse, or any alkaline solution-Medicus eised with a pair of seissors or a bistoury, the Corcagiensis. bleeding from which will lessen the inflammation. and as the wound cicatrizes it will contract the membrane, and prevent it from interfering with in most instances be collected ripe, and kept in the teeth.-Clater.

Labors of a Locomotive-Hon. Wm. Jackson, one of the most practical rail-road men in Massachusetts, has given some statistics of the labor of a locomotive on the Western rail road, which Albany every morning, each train carrying 100 of 12 miles an hour, or 100 miles a day including stoppages. A horse would carry 1200 lbs., over the mountains 25 miles per day. Divide the miles each day. Hence the iron horse 's every day, fair or foul, doing the work of 668 horses.

Mad Itch.-The effect of cattle following hogs that are fed on green corn, cut up and thrown to A great deal more is made of this disease than them when in the reasting-car state, is very fatal. The hogs will chew the corn-stalk, and extract all ment of the bars, it will generally subside after a the sap, and then throw it out. These fibres, thus the teeth or below them, and the horse quids his to give fermentation, to enable the animal to rumihay, some blood should be taken from the part. nate; and it thus lays dormant and inactive in the The bars should be cut across, and, if they are manifolds or stemach; becomes perfectly compact cut deep enough, plenty of blood will flow. The and undigestible-creates a fever, and in the end bleeding may be encouraged as long as the sur- destroys the animal. " I have lost many fine cattle geon pleases, depending on the degree of en-in this way," says Gev. Vance of Ohio, " and have largement and fever: and will usually be stopped never been able to save one thus afflicted. The at pleasure, by the pressure of a sponge charged entire symptoms are similar to what is called the with cold water on the part. This is not recommended as a proper way of the same cause, by taking in indigestible matter,

A Method of Preserving Fruit Fresh all the it in a box filled all round to about four inches The farrier usually recommends the searing of thickness, with the aforesaid preparations, so that the end of a year such finits may be taken out as beautiful as when they were first put in .-Family Receipt Book.

Sling of a Bee.-I beg to inform a correspon-When this materially interferes with the fustanteneously; it is far preferable to liquor

> To Gather and Preserve Fruits .- They should Isand or straw.

Early Rising .-- Late rising is not the habit of the very highest classes, for royalty itself sets the contrary example; and we have met, before now, princes taking their ride before breakfast at six o'clock. The present king of Hanover we have repeatedly seen out at that time. We have known Lord Brougham, when chancellor, make appointments on matters of business at his private residence for eight o'clock in the morning; his own time of rising being four in summer, and half-past six in winter. Supposing that a man rises at six, instead of eight, every morning of his life, he will save in the course of forty years, twenty-nine thousand hours, which is a great accession of available time for study or business despatch; being, in fact a gaining of three years, four months, two weeks, and six days. To any person of foresight, calculation, and industry, this fact will prove a sufficient temptation to practice the healthy and useful habit of early rising .--- Chambers' Journal.

Tar the Sheep's Noses .-- In 'August and September, and perhaps the latter part of July, a fly, which is very troublesome to sheep, lays eggs in their nostrils, which are hatched, and the young worms ascend into their heads, where they be potatoes-boil, peel, and mash them. come very distressing often causing Then rub the mashed potatoes through a death, unless some powerful remedy be applied to cause their ejection or destruction. The better way is to prevent the evil.

Tar is considered the best remedy. By tarring the sheep's noses the injury of a large hickory nut. Mix together the will be avoided. The better way to ef- flour, the mashed potatoes and the salt, fect this object is to lay tar on boards or in a large broad pan. Make a hole in in throughs in a sheltered situation, and the centre of the mixture, and pour into then strew on salt, and the sheep will it the yeast mixed with the warm water perform the operation of sincaring; or -sprinkle a little flour over the top. and take a stick of timber, dress the upper mix in a little from round the sides of side, and bore in some large augur holes the hole. Cover it with a clean towel, two or three inches deep, put some salt and over that a flannel, and set it near the in these holes and once a week, or oftener, fire to rise. When the dough is guite put tar around the edges of the holes.

the time they are assaulted, and they beaten them well) also the butter. often run with their noses to the ground Then divide the dough, and make it into in order to avoid these vexatious flies, or long-shaped rolls. Cover them, and set they will run their noses into the dust them again to rise in a warm place. when an opportunity presents; for this, When perfectly light, lay them in a pan purpose some persons plough up the earth sprinkled with flour, and bake them well. on spots often frequented by sheep in hot They are best when quite fresh.—Gard. weather.

The application of tar, as here recommended is conducive to the health of, sheep, otherwise than by preventing the evil we have named. It is good for colds and other disorders.-Bost. Cult.

Hydraulic Cement.-The following may be useful to some of your readers; it is from the supple, ment of Ure's Dictionary, an English publication, which work has been recently reprinted in your city; "All sorts of time are made hydraulic in the humid way, by mixing slacked I me with solutions of common alum or sulphate of alumina; but the best method consists in employing a solution of the silicate of potesh, called liquor of flints, or soluble glass, to mix in with the lime and clay. An hydraulic cement may also be made which will serve for the manufacture of architectural ornaments, by making a paste of pulverised chalk, with a solution of silicate of potash. The said liquer of flints will likewise give chalk and plaster a stony hardness, by merely soaking them in it after they are cut and moulded to a proper shape. On exposure to the air they get progressively indurated. Superficial hardness may be readily produced by washing over the surface of the chalk, &c., with liquor cf flints, by means of a brush. This method affords an easy and elegant method cf giving a steny crust to plastered walls and ceilings of apartments; as also to statues and busts cast in gypsum mixed with chall . -N. Y. Mech. W.

Potatoe Rolls .- Take five middle sized sieve. To each potatoe, allow a pint of sifted fluur, a table spoonful of strong fresh yeast, a gill of milk-warm water, a small spoon of salt, the yolk of an egg, and a bit of fresh butter, about the size of a large hickory nut. Mix together the light, and cracked all over the surface Sheep suffer much from these flies at knead in the yolks of eggs (having first Chron.

> To Dissolve Congulated Blood .-- 1. Bind on the part for some hours a paste made of black soap and crembs of white bread.

> 2. Take grated root of burdock spread upon a rag; renew this twice a day.

Bed Bugs .- In treating of different animals, we must not omit the bed bug, as he claims particular attention at this senson of the year. We have no cut to represent his bugship, nor need we attempt a description, as he is well known, we only treat of his desiruction, as he is one of the most blood-thirsty animals that man has to contend with, and he often proves quite formidable in disturbing one's quiet and repose. A correspondent of the Farmer's Visitor gives a remedy which he obtained from a good lady among the Enfield Shakers, the substance of which we give in short, first remarking that we have often heard that unguentum is an effectual remedy.

" Paint the bedstead with a good coat of verdigris, or merely paint the tenons, mortices, joints, and holes through which the cord passes. Be careful that the inside of the holes be thoroughly bedaubed, and have a good coat, as the rough wood will absorb much paint. Then besmear profusely the joints and holes with 'unguentum,' and put it together; and if thoroughly done, bed bugs will not inhabit it for 15 years, if ever."---Bost. Cult.

Testing Essential Oils.-Since these oils are more or less adulterated in the present day, a ready mode of testing impurities is a desideratum to dealers and others, Mr. Vogil considers concentrated sulphurie acid to be the best reagent for detecting adulterations of essential oils with oil of turpentine. The peculiar color which the essential oils assume under the action of sulphuric acid is much altered by the intense reddish brown color which the oil of turpentine yields; and, moreover, the heat involved with the oil of turpentine is much greater than that with other oils. In testing, the oils are best dropped on a glass plate, beneath which is placed a piece of white paper; to five drops of the joint; slacken them gradually. cil add one drop of the fuming sulphuric acid, and mix them with the finger.-

How to Manage a Stud Horse.--- I know a stud horse in my neighborhood, which is led out of the stable by the bit, the rein passing from the right side under the jaw through the ring of the left side. The horse takes his groom at ease where he pleases, and as fast as he pleases, till he reaches the mare to be covered. I know another stud horse which was equally unmanagable ull the following, mode was adopted. The rein passes form the ring of the right side of the bit, up the right side of the head, and over it behind the ears, then down the left side through the ring of the left side of the bit, which gives a purchase upon the mouth that cannot be resisted; the aroom thus manages him with the greatest ease. Try 3. Thonseman.

FROM THE PRACTICAL RECEIPT BOOK

Sheep Husbandry. 1. If the production of wool is the object, take' the Merino and Saxon, and, if possible, procure Rambouillet and Paular rams to cross on the first, as they are the largest and most superior class of animals we know, they being originally derived from the same source, viz: the Merinos of Spain.

2. If delicate mutton is wanted, with a medium fibre of wool, take South Downs.

3. If larger mutton, with somewhat coarser quality of wool than the last, though much longer and more of it, is desired, procure Cotswold, Leicester, Bakewell, Lincoln, or New Oxford.

4. Many of those who have crossed the Sonth Downs with the Leicester and the other longwoolled sheep, prefer these, for the reasons stated in No. 2.

5. Others greatly prefer a cross of the Leicessor with the Merino, half and half, and then breeding those grades together. Their reasons in favor of this cross are these :-- 1st. It gives a large sheep, with plenty of mutton. 2nd. A large fleece of wool, and of sufficient fineness for all purposes of domestic manufacture, and gets rid of the tropblesome length of pure Leicester. 3. The animal is in good shape, good constitution, thrifty, hardy, and comes to maturity one year sooner than the Merino, has nothing of his rugged appearance, and has little or no gum in his wool.

To Dye Woollens Black .--- Take the cloth proviously dyed blue and boil it for two hours in a bath of gall-nuts, then pass it for two hours through a hot bath of logwood and copperas.

Black Varnish .- Take any varnish, of the clase you wish, 16 parts; lampblack, 2 parts. Grind the black in a small quantity of the varaish, then mix it with the remainder.

To Clean Black Veils .- Pass them through a warm liquor of bullock's gall and water; rinse in cold water; then take a small piece of glue, pour boiling water on it, and pass the veil through it, clap it, and frame to dry.

Bleeding of a Wound .-- 1. Make'two or three tight ligatures towards the lower part of each

2. Apply tops of nettles, bruised.

3. Strew on it the ashes of a linen rag, dipped in sharp vinegar and burnt.

4. Take ripe puff-balls, break them warily, and save the powder. Strew this on the wound and bind it on. This will stop the bleeding of an amputated limb.

Spitting of Blood.-1. Take two spoonsful of the juice of nettles every morning, and a large cup of the decoction of nettles at night, for a werk.

2. Take three spoonsful of sage-juice in a little honey. This presently stops either spitting or vomiting blood.

3. Take 20 grains of alum in water overy two hours.

Common Black Paint .-- Ivory or kampblack, 1 cwt. ; road dust, 2 cwt. ; line-water, 15 gallous; oil to grind (factitious linseed.)

Blistering Ointment for Cattle.-1. Yellow vinegar, 1 gallon. Mix.

2. Tallow, 16 pounds; oil of origanum, 4 pounds; powdered flies, 1 pound; powdered euphorbium, 1 pound. Mix.

3. Lard, 7 pounds; oil of turpentine, 1 pound; tar, 1 pound; powdered flies, 17 ounces. Mix.

4. Lard, 5 pounds; resin, 5 pounds; spirits of turpentine, 5 pounds ; powdered flies, 2 pounds ; oil of origanum, 1 pound. Mix.

Blistering Plaster.-1. Burgundy pitch, 12 pounds; turpentine, 4 pounds; Spanish flies, 6 pounds; wax, 1 pound; suet, 1 pound. Mix.

2. Yellow resin, 8 parts ; yellow wax, 4 parts ; suet, 3 parts; powdered Spanish flies, 7 parts; simple plaster, 10 parts; vinegar, 4 parts. Mix. Compound Blastering Plaster.-Venice tur-

pentine, 18 pounds; Burgundy pitch, 12 pounds, Spanish flies, 12 pounds, yellow wax, 1 pounds; verdigris, 1 pound; mustard, 3 ounces; black pepper, 3 ounces. Melt, then stir in the flies.

To Prepare Bladders.-Soak them for twenty. four hours in water, to which a little chloride of lime or potass has been added, then remove the extraneous membranes, well wash in clean water, and dry them.

Twelve Experimental Receipts on the Earths 4. Pour a little lime-water into a wineglass and put some solution of oxalate of ammonia, equally transparent, into another glass. If the two clear liquors be poured together, a white precipitate of oxalate of lime will immediately become visible.

2. Pour a little lime-water into a phial, and throw-some carbonic acid into it. The carbonic acid will seize the lime, and precipitate it in the state of carbonate of lime.

periment, with its contents, and convey an addi- sliced, 1 ounce ; orange peel, dried, 1 ounce ; tional port on of carbonic acid into it. The proof brandy 1 pint. In three or four days it is carbonate of lime will now be re-dissolved, and fit for use. This is useful in all disorders that tional port on of carbonic acid into it. the liquor rendered transparent.

4. Take the transparent liquid produced in the last experiment, and give it h at. The earth will now be precipitated in the state of carbonate of lime. as before.

5. Pour some lime-water into a wineglass, and a little solution of carbonate of potash into another glass. When these two transparent fluids are thrown together, an abun lant precipitate of carbonate of lime will be the consequence.

6. Proceed as in the last experiment, but instead of carbonate of potash, pour a solution of Epsom salt into one of the glasses. When these transparent finids are poured tog-ther, a mixed like manner. Rinse it in spring water, and precipitate of corbonate of magnesia and sulphate of lime will be produced.

manner, separately, lime-water and a solution of side. then dry it before a fire.

alum. The union of these solutions will produce a mixed precipitate of alumma and sulphate of ' lime.

8. If a strong solution of caustic potash and a resin, 14 pounds; spirits of turpentine, 4 pounds; saturated solution of Epsom salt be mixed, the tallow, 2 pounds; lard, 20 pounds; powdered union of these transparent fluids will produce also Spanish flies, 10 pounds; euphorbium, 1 pound; an abundant precipitate. But this will consist of magnesia and sulphate of potash.

9. To a glass of water suspected to contain carbonic acid, add a small quantity of any of the other acids. If carbonic acid be present, it will become visible by a sparkling appearance on the sides of the glass and surface of the fluid.

10. Prepare two glasses of pure water, and into one of them drop a single drop of sulphurie acid, and mix it with the water. Pour a little muriate of barytes into the other glass, and no change will be perceived ; pour some of the same solution into the first glass, containing the sulphuric acid, and a white precipitate of sulphate of barytes will be produced.

11. Prepare two glasses of water as before, conduct the experiment in the same as the last, but instead of muriate of barytes, use nitrate of lead. In this case sulphate of lead will be precipitated.

12 Fill a glass tumbler half full of lime-water ; then breathe into it frequently, at the same time The fluid, which stirring it with a piece of glass. was before perfectly transparent, will presently become quite white, and if suffered to remain at rest, real chalk will be deposited.

A Braise.-1. Immediately apply molasses, spread on brown paper.

2. Apply a plaster of chopped parsley mixed with butter.

Pain in the Stomach from bad Digestion-I. Take fasting, or in the fit, half a pint of camomile tea. Do this five or six mornings,

2. Take from twenty to forty drops of elexir of vitriol in sage tea twice or thrice a day.

3. Take two or three tea spoonsful of stomachie tincture, in a glass of water, three times a 8. Take the phial made use of in the last ex- a day. The tincture is made thus; gentian-root, arise from a relaxed stomach.

A White Swelling on the J-ints .--- 1. Pump on the part half an hour every morning. This cures also pains in the joints. It seldom fails,

2. A stream of cold water one day, and warm the next, and so on by turns. Use these reme-dies at first, if possible. It is likewise proper to intermix gentle purges to prevent a relapse.

3. Boiled nettles applied to the part.

To Clean Black Silks .- To bullocks gall, add boiling water sufficient to make it warm, and with a clean sponge rub the silk well on bo h sides; squeeze it well on', and proceed again in change the water till perfectly clean, dry it in the air, and pin it out on a table; but first dip 7. For another experiment, take in the same i the sponge in glue-water, and rub it on the wrong

Biles.-1. Apply a little Venice turpentine.

9. An equal quantity of soap and brown sugar, i woll mizer

3. A plaster of honey and wheat flour, or figs. 4. Or a little saffron in a white bread poultice.

It is proper to purge also.

To dissolve White or Hard Swellings .- Take white roses, elder flowers, leaves of fox glove, and of St. John's wort, a handful of each ; mix them with hog's lard, and make an ointment.

2. Hold them morning and evening, in the steam of vinegar, poured on red hot flinis.

To Fasten the Teeth .- Put powdered alum, the quantity of a nutmeg, in a quart of spring water for twenty-four hours. Then strain the water and gargle with it.

A Simple Barometer .- Take a common phial, and cut off the rim and part of neek, by means of a piece of cord passed round it, and moved rapidly to and fro, in a sawing direction, the one end being held in the left hand and the other being fastened to any convenient object, while the right hand holds and moves the phial, when heated, dip it suddenly into cold water, and the part will erack off; or separate it with a file. Then nearly Roses, Herbaceous, Plants, &c. is quite extensive, on the mouth and invert it, withdraw your finger and suspend it in this position with a piece In dry weather the under surface of tract at low prices. of twme. the water will be level with the neck of the bottle, or even concave ; in damp weather on the contrary, a drop will appear at the mouth and con-, ticularly where the soil is dry and warm : October tinue until it falls, and is then followed by another in the same way.

lime in a large tub or barrel, with boiling tate with the first advancement of spring. water, covering the tub or barrel, to keep in all the steam. When thus slacked packed, for which a small charge, covering expenpass six quarts of it through a fine sieve. ises, will be made. Packages will be addressed It will then be in a state of fine flour. Now to six quarts of this lime add one quart of Rock or Turk's Island salt, and Field and Flower Seeds constantly on hand at their one gallon of water; then boil the mixture and skim it clean. To every five ture and skim it clean. To every five as can be grown to greater perfection here than in gallons of this mixture, add one pound Europe, are raised in the Nursery Grounds, and of alum, half a pound of copperas, by sold wholesale, at low prices. slow degrees, three-quarters of a pound of potash, and four quarts of fine sand or factory reference in the City of Toronto, will rehard wood ashes, sifted. This mixture, ceive prompt attention. will now admit of any coloring matter **vou please, and may be applied with a** brush. It looks better than paint, and is as durable as slate. It will stop small leaks in the roof, prevent the moss from growing over and rotting the wood, and render it incombustible from sparks falling upon it. When hid upon brick work, it renders the brick impervious to rain orwet.-Enigrant's Hand Book.

TORONTO

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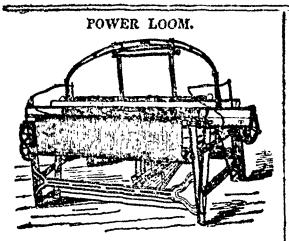
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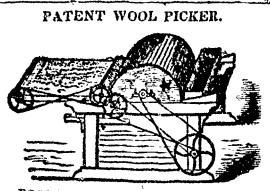
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W. BARBER & BROTHERS. Esquesing, April, 1845.

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IF Editors of Provincial newspapers will oblige the Proprietors, by giving this advertisenent a few insertions.

Toronio, Jan, 1345.