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By M. MAC LEAN.

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TT The postage must be paid on letters to the editor on the business of the office.

AGBROULTURAL.

PLOUG IS -- Within twenty years great improvem n's have been made in the manufacture of ploaghe. When the cas iron ploughs were in . to used, it was for rol by most of our farmers who are very peu den ly cauticus of innovations without substantial proofs, that they are improvem n's, that the metal would be too b it to for service in most of on rac y fill, a'd for a long time they were shy of giving them a trial. And to avoid, as far as possible, this objection, the first manufactures of the cat ran plonghs ma e hem ex ceed ng'y short-and th uch they were found to run a vast deal b tter, or a 'r with abo it half the team which was form :ly required, the extreme short: css of the body of these ploughs was found unfa orable to the complete subversion of the soil, which all good farmers when ploughing green sward, are desirous to elle :t.

The latest famion-setting the soil e.lg. evise- hey are not willing to adopt until they can be fully satisfied of the advantages which are likely to arise from such they procedure. When others have practiced and proved, that furrows half turne 1 will be more provide ive, or more easily tilled than furrows corned completely over, barying up all the grass, st ubble, and oth er matter on the surface that all this may boostly the result of good or bad soil.

this: I generally clear my stables of spread out, as I have stated above, but efactors,* this I consider altogether preferable to

o drain. It is then in a suitable condition for heaping. For want of correct in formation on this

subject, I am convinced in ich of the value of stable manure is lost by our formers. Other kinds of the autore re aot as hable to ice as horse stable measure and this selon fices before it is rate test from the stable, except when it is allowed to remain in considerable quantity in a stable that is not regularly as d; it will then sometimes fire in the stable.

have it theroughly drenched with water. It any thing would help to restore its quality, that I would think most likely to do it. F.

Salubrity, S. C. March 13, 1841.

From the Western Farmer and Gardener.]

SOIL MOST SUITABLE FOR APPLE TRUNS. The successful cultivation of the apple lepends very much on the suitableness of the ground they are planted in. The size and flavor of the fruit, the general health and duration of trees is most comat one proconverted to manute, or to fare Chanate and situation also affect both for future plants-all practical farmors press and fruit ; but not in the degree in which the same are affected by the quali- munities of the persecuted Protestants of with, that of a soft hazel loam, contain. | silk manufactories. ing a small portion of sand, seems to be most congenial to the apple generally. La such soil the tree is seen to flourish tion of Philadelphia as a mere philosophilongest, is most productive, and remains eal toy, first excited the attention of Dr. rocks, they procured metal of a better freest from disease or attack of insects. quality than was formerly used for ploughs. A great depth is not requisite; eighteen and we are pleased to see they have suc- or twenty inches deep being quite enough, ceeded in bri ging the grass plough more provided it be on a subsoil of gravel or near to perfection than any which have loose rock. If the bottom be wet, the trees should be planted high, and every In proof of this--if any practical man means taken to drain the ground. A wet

This State is not only under the great rain puts it in good order for heaping up. promote the interests of all branches of authorizes us to do so. A numerous sition." This practice is founded on the principle national industry. For the advancement commission, consisting of Messrs. Arago, that manure will not fire when exposed to of agriculture he has, in a special man- De Mibrel. Poncelet, Gambey, Audion, lime. The insoluble residuum is clay or not mean that the actual increase of prothe atmosphere in a layer not exceeding 6 ner, devoted unwearied attention for Boussingault, and Dumas. have attentive- sand. inckes thick, or in a heap if completely sa- more than half a century, and his distin- ly examined Dr. Boucherie's process, and urated with moisture. A part of the guished services in all the departments given to it their unqualified approbation. strength of the manure is evidently was- of intelligence and political ecor ony have We cannot betser subserve the Public ted by exposing it to the sun and air while placed him high on the roll of public ben- than by textually publishing a statement

Mr. Erving having filled the stations of dustry of the country. having it fire in the heap. Care should be Minister of the United States at the ment and prosperity of his native land. How often has it been verified, that the diminished." traasmission from other distant nations of a single socd, plant, fact, or newly disthe coantry in which they were received. A few seeds of the mulh rry tree and eggs of the sinworm, which were brought various and durable colors and odors." It might be a matter of some import. from Cause and presented to the Empe.) ance to know what would be the best for Juscinian, in Constanting da, have torily illustrated, and by new, unexpen- water. Stir the mixture, and when it has method of treating manure that had be- readered the culture of silk one of the cone fired : but I have made no experi- most profitable branches of rural industry ments on this point; I should judge, how- in Western Asia and Southern Europa. and cheap substan ~ s. ever, that the first requisite would be to and may become quite as beneficial throughout the whole extent of this Republic.

A small bag of seed rice, which was Ina from the cook of a vessel from Madagasear that had been wreck d on the coast of that State, and a sample of com ton soed which a planter receive 1 a low years before the Revolutionary war, have readered their products two of the chief agricultural staples of the United States. From one cherry tree, which was tion." brought from the southern coast of the Eaxine, by Lucallus, on his return to Rome from the Mithridatic war, has that and America.

To the arrival in England of small com-

We have already announced this im- and pour it upon a filter, previously ter. This theory does not seem to be minu e while it is raining, and have it est obligations to its illustrious founder, portant discovery by giving an account weighed. Dry the filter, and ascertain supported by experience. It is even spread out, so as not to be more than 6 but to the gentleman who, as his direct of Dr. Boucherie's memoir on the preser- its increase of weight, which will indicate inches thick in any part. If the rain con- descendant, has for many years honora- vation of woods; but were not able, at how much insoluble matter the quantity tinues sufficiently long to wet the manure bly upbore the dearly cherished name of that time, to exprass any thing more than of lime submitted to experiment contain- vegetable matter are at all improved by thoroughly, I then have it thrown into a Winthrop. There are but few men now our hopes of his success. Now we can ed. It is easy to judge, by the external decomposition with line; and sandy soil heap; otherwise I let it remain spread out living who have done more to encourage speak with entire confidence, as the re- qualities of the insoluble portion, whether in which there is comparatively little veguntil I can haulit to the field, or another and foster letters, science, and the arts, port which the Academy 1 as approved argillaceous earth abounds in the compo-

The diluted muriatic acid dissolves the To detect magnesia in limestone,

which, according to Tennant, renders the lime, when applie 1 in large doses, prejudicial to lands, Orfila directs as follows: "Procure a Florence flask, [a common which is so highly interesting to the in-

half pint olive oil flask.] clean it well f.om It is stated in the report "that the oil, by a little soap-lees or salt of tartar taken to have it entirely saturated with Courts of Stockholm and Madril, is well Academy had already seen, with deep and quick lime mixed, and break it off water before it is thrown into a hear. known to his fellow-citizens, and while on interest, the mode in which the author about the middle of the body, by setting This may be ascertained by its beginning a visit to Europe, as a private citizen, has had conducted his process, and has now fire to a string tied round it, and moisten- bearing on this question. evinced, in the most efficient manner, in its possession specimens of the result. ed with oil [spirits] of turpentine. Into the solicitule he feels for the improve- which are so remarkable that the labors of the bottom part of the flask, put 100 grains the commissioners have been very much of the lime, or limestone, and pour on it.

by degrees, haf an ounce of strong sul-Dr. Boucherie is enabled, by his pro- phuric acid. On each effusion of acid. cess, to render wood much more durable, a violent effervescence will ensue; when Farmer's Cabinet. They satisfactorily covered invention, however, unimportant to preserve its elasticity, protect it from this ceases, stir the acid and lime togeth- explain why ground limestone is not so ither may have appeared at the time, has the variation of volume by the dryness er, with a small glass tube or rod, and been productive of innuess advanage to and humidity of the atmosphere, dimin- place the flask in an iron pan filled with ish its combustibility, augment its tena. sand. Set it over the fire, and continue city and hardness, and finally to give to it ; the heat till the mass is quite dry. Scrape off the dry mass, weigh it, and put it into All these exigencies have been satisfac- a wine glass, which may be filled up with sive, and simple methods; this, too, has stood half an hour, pour the whole on a been accomplished by the aid of common filtering paper, placed on a fannel and previously weighed. Wash the insoluble "For the purpose of personating an part with water, as it lies on the filter. While this is the case it never will be entire tree with the preservative, coloring, and add the washings to the filtered li- converted into a super-carbonate. Demor, To this solution and had an ounce) rand to any completed or expensive of san of tertar in water, when, if magobtained by the Governor of South Caro- m chanical means. All the power re- aesia be present, a very copious white quire is the aspirative force of the vege- sediment will ensue; it not only, morely table used, which is sufficient to trans- a slight milkiness. In the found case port from the bottom of the trank of a heat the liquor by setting it in a tea cup tree to the whole of the leaves at the near the fire; let the sediment subside; summat the laguers with which it is desi- pour off-the clear liquor, which may be rable to impregnate it, provided they are throwa away, and wash the white powkept within certain limits of concentra- der repeatedly with warm water. Then pour it on a filter of paper, the weight of "Thus, if a tree in full sup is cut down which is known, dry, and weigh it. The

and plunced in a vat containing the liquor result, if the lime stone has been submitwhich it is desired should be inspired, it ted to experiment, shows how much cardeile ious fruit been extended over Europe will ascend in a few days to the most, bonate of magnesia was contained in the of the land that I occupy that has not elevated leaves and all the vegetable tis- original stone; or, deducting 60 per cent. had 200, and some three hundred bushels

doubtful whetherthe fertilizing qualities of etable matter, is improved in as great proportion perhaps as any other. We do duction is as great from the application of lime to poor sandy land as from its application to rich loamy soil. But the increase, in proportion to the production before that application of lime is as great, or greater.

We copy below from the same vol. of the Cultivator an article having some

IN REGARD TO LIME,

To be employed in agriculture, we find somenew suggestions, and we thinkimportant ones, in a communication in the good for land as effete lime, or lime which has lost its caustic quality, after being barnt, by the re-absorption of carbonic acid, and furnish useful hints for the application of lime in husbandry. The writer remarks on the first point-

"We cannot, by grinding, destroy the attraction of cohesion in limestone; there will be two or more atoms adhering .-stroy the attraction of cohesion, as the result shows is done by burning and slacking, and it will ultimately be converted into super-carbonale, when inconporated with the soil; is then soluble in water, and acts beneficially or injuriouiy, as the quantity is in accordance with the wants of the plant, or in excess, as o her ma es do,"

Upon the application of lime the wrior sava:

of have been in the practice of using, lime for twenty-five years; there i+ fittle. suc will be filled except the very centre how much pure magnesia 100 parts of to the acre, applied in that time. In my first applications, it was slacked, spread and incorporated with the soil as soonas practicable from the kiln. But for more than twenty years I have sprea I but little that has not lain from three to twelve or more months, and when spread avoided all means that would incorporate it with the soil, that necessity did not urge for the accomplishment of other o'r-"In castern Pennsylvania, lime is the the lime in the liquid. The magnesia jects. The change was the fruit of a doubt of the ultimate utility of using lung matter contained in soil under regular cultivation, and that this questionable advantage was all I conceived I had to place against the known and certain result, that by so applying it, it would be converted into carbonate at the expense of a material contained in the sout that, there was, or in future would become capable of supporting a vegetable; and ly spread out. All linestone of primitire carbonate, before mixed with the soil, ence as having fally sustained the conchi-

will then be ready to adopt the new scheme.

Pronty & Mears, of Boston, only a few years since seeing what was wanted by the most intelligent farmers, determined to make their ploughs with a longer body and a longer mould plate-and to obviate the objection that long plates were more liable to be fractured or broken among the yet been manufactured.

needs proof after seeing the article-we bottom of gravely clay should be avoided would remind our readers that these if possible. ploughs have 'requeutly taken the first premiums at our ploughing matches on are not the most proper for the apple, for account of their ease of draught and their it is often seen that apple trees succeed complete subservision of the sod.

At Harlæm in the Stato of New York, work in the most perfect manner; and a deep into the ground. gold medal was accordingly awarded to his firm. This trial was under the direc- control the works of the planter, compeltion of the American Institute, which in- ling him to fix on a site where the soil vited competitors from all parts of the Un- may not be recommended above ; he must jon-and not a few contended for the in this case, endeavor to make the soil by

this firm was at Worgester, in October, to the ssandard as possible. last, where a committee of ten-and Gov- Situation and aspect for planting Apple ernor, Lincoln was one of them-unanimously awarded the premium of one hundred dollars to this same firm. We are ther be in the bottom of a norrow valley ; more gratified in witnessing this result, as nor on the top of a hill; in the first, the this is the precise form of the plough young wood is never so well ripened, the which we have for several vears past, both buds are often too early excited in the in other papers and in this, been recom- spring, and their frosts are always more mending to the public .- Boston Cultiva- intently felt : in the second, fruit-bearing

FIRED. OF FIRE-FANGED MANURE.

Mr. Editor .-- When siable manure is thrown in a heap of considerable size from ; the stable, it immediately commences when the violence or a wese wind is broheating, and giving out a steam or gas of ken by an intervenieg rise of ground, a a very strong smell. If the heap is large, southwest aspect has been found equal to this operation will continue several days : any. and if the manure be examined after it has ceased, it will be found of a whitish mouldy appearance, except a thin layer on the surface ; and soon it will become dry and hard. Manure in this condition, is called by English writers. " Fire fanged." For brevity, I shall, in this article, call it fired.

found of very little value; and if applied to the preservation of wood from decay, to plants while in the operation of firing it and enduing it with other valuable qualiwill freq cently destroy vegetation; hence ties. It was transmitted from Paris by it is of much importance to preserve ma- the Hen. G. W. Erving to Governor nure from firing.

But this is not always convenient, or even poses in the economical and ornamental

Deep rich soils in sheltered situations well in any kind of loam, though it be not more than one foot in depth, so as the the Prouty & Mears' plough was decided, bottom is sound and dry, the roots take on a fair trial by the judges there, to be an extensive horizontal range, the young the best plough presented, both for requi- wood is always of more mo lerate growth, ring the least draught and performing the and better ripened than when roots strike

Although local circumstances often trenching, draming, and by addition of The last public trial of the ploughs of the qualities wanting, bring it is as near

Trees.

The situation of an orchard should neitrees are always too much exposed to the winds. The most desirable site is the side of a hill which slopes gently to the southeast, that being the most shellered situation in this we tern country. But

From the National Intelligencer. PRESERVATION OF WOOD.

Hawthorn Collage, Roxbury Mass. Feb. 15, 1841.

Gentiemen: Enclosed is an account of a discovery which has been made in Manure, when completely fired, I have France during the past year, in relation Winthrop of this State, who put it into The best method of doing this, and at my hands with a request that it might be the same time securing all its strength, translated and published, from the belief for he soil, is, icubiless, to carry it direc- that the discovery would excite a deep tly from the stable to the land on which it interest in this country, where wood is so is to be used spread it evenly on the extensively used for ship-building, steam ground, and imm diately plough it in, and canal boats, as well as for architecthus mixing it the oughly with the soil. tural and an infinite variety of other pur-

ties predominant in the land. Of all the Holland and France may that kingdom the penetration of the fluid. It is not his been used, deduct from the weight of different descriptions of soil to be met date the establishment of her woellen and

> tieman of London to the Library Associa-Franklin to the subject of electricity, and induced him to make those experiments which resulted in his brilliant discoveries in that science.

May every American citizen who visits Erving, and remember that it is in their some plain simple rule, by which any dia. power to subserve some department of farmer may analyze lime, and be able to In burning lime, a ton ought to be readvanced, national prosperity accelerated the Cultivator, to try lime, and you will it requires a year or more, if not purpose- that so far as it could be converted into a and the bounds of intelligence enlarged.

Extracts from Mr. Ervings letter to Gov. Winthrop and a French periodical publication.

Paris, January 1, 1841. "I enclose a very interesting account with."

ACADEMY OF SCIENCES. Meeting of the Thirticth of November. ladustry has acquired a grand and ad- bandry. See our extracts to day. Orfila roots. mirable discovery. Wood, which, of all saysthe materials of construction, is perhaps is rendered indestructible by insects as Iy well adapted for one kind of land, and manures, and constituting a necessary well as incombustible ; and yet retaining not for another. All that can be accom- constituent of most plants. ornamental arts; and these various and require the as in as possible from the a manure of stimulus-not of nutriment. beautiful results are obtained by a very area as president. simple and cheap process, as the substant - . To the mine the purity of lime, let ces which are employed are obtained at a given weight be dissolved in diluted muvery low price, and no other power is re- ratic acid. Let a little excess of acid the lament Buel. His remarks as to quired than that which Nature herself be added, that no portion may remain un- the kind of soil which is most benefitted developes.

since this letter was received, paid the debt to nature .- Nat. Intell.]

of the tree, which in aged trunks resists the lima contained. If the burnt time aspiration."

oblige vours, &c.

"BENJ. F BADOLET.

"Pugslown, Chester county, May 25." chemistry, so important in all the arts of common lime. productive labor, is not made a branch of

olvent. Dilute with distilled water; let ["Phiseminent and venerable citzen has the insoluble part, if any, subside, and

necessary that all the branches and leaves the precipitae 60 per cent, and the reshould be retained upon the tree, for those mainder will give the weight of the mag-A glass tube, which was sent by a gen- of the summit are sufficient to induce the n sia in each of the 100 grains of burnt lime."

The sulpharie acid dissolves the line MODE OF ANALYZING LIME. AND INTEREST. | and magnesia, which pass through the ING FACTS IN RELATION TO ITS APPLICA- first filter with the liquid. The salt of tarter precipitates the magnesia, leaving

great source of improvement; and of this is the residuum upon the second filter. we have all the different varieties, I sup- We add some relevant facts in regard to hasten the decomposition of vegetable oreign climes initate the example of Mr. pose, that can be named. We want to lime, from the Domestic Encyclopie.

knowledge, or some branch of science or judge which of the different kinds is duced in the kiln to 1199 weight; otherart, if whatever that is observed, which is most useful to agriculture. We have wise it is not sufficiently burnt. It will indigenous, and is deemed either valua- primitive and secondary lune stone, also regain twe-thirds of the lost weight, by ble or interesting, no matter how minute that which contains large quantities of exposure to air for a week or ten daysor seemingly inconsequencial, is obtained magnesia, which we find very injurious 100 parts of lime aborb [and solidify] and sent home. It is by such infrequent to vegetation, and which I should like to about 23 parts of water; and to regain its acquisitions that civilization has been detect before using it. Send us rules, in fall proportion of air from the atmosphere;

> formation, contains magnesia; all white was clear gain; and I regard my experimarbles contain about ten per cent mag-Before we reply to our correspondent, nesia. Put less of the mugaesian lime sioa." we cannot but repeat our regrets. that upon your land, by about one-third, than of

The lands most ben filled by 'ime, are, of the session of the Academy of Science, instruction in the schools of farmers' boys, 1. Rich black or brown friable crambling on the 30th of November, in relation to as in Germany, France, and elsewhere; learns, which a' ound with vegetable matthe discovery of Dr. Boucherie of a pro- and that we have no schools of instruc- ter. 2. Low, rich drained mead ows, cess by means of which wood is rendered tion for them, in the theory and practice, that have formerly been bogs, and the officers presiding over the several Departr more durable, preserving at the same of husbandry, like those of Hoffwyl, black soil of which abounds in vegetable ments of the deeply regretted death of time elasticity and its bulf, unaffected by Moegelin, Templemoyle,-of France, and fibre. 3 Old pastures and commons, William Henry Hurtison, late President changes in the temperature of the at- of most of the German states. The ben- which have been under grass for time of the United States. Upon him you had mosphere, while its combustibility is di- efits that would result alone from teach- immemorial, and are first to be converted conferred your suffrages for the first office minished, and such durable colors and ing the young farmer, scientifically, to into arable land; but upon these, lime odors given to it as may be desired. Be determine the qualities of his soil, its de- should not be repeated. 4. On moory so gool as to communicate this to Gen. fects, and the proper means of improving boggy, mountainous land, and on black Dearborn. If you think that the discove- it by lime, marl and manures, would more peat earth. 5. O.1 all other waste soils To may be useful in our country, it may be than remunerate the public for twenty that have been overrun with forn, briars, weil that it should be published forth- agricultural schools; or for suitable books bushes or wood, and which, though richly of instruction in these matters, to every stored with vegetable food, have contractschool in the nation. Science is almost ed an acidity, in consequence of their long indispensable to good and successful hus- rest, and the spontaneous growth of

Mild lime, carbon the of lime, and marl, "It is impossible to lay down any gen- improve the texture of clays and sands, ne most useful, and yet the most change- cral rules respecting the fitness of lime rendering the first less stiff and adhesive, able, is about being transformed, in the for the purposes of agriculture, because and the latter more compact and retentive myself. This same occurrence has surhands of science, into an incorruptible much must depend upon the peculiarities of moisture; and they improve all soils, and unalterable substance, which is nei- of soil, exposure and other circumstances. not already changed with calcaceous ther affected by humidity or dryness, and Hence a species of lime may be extreme- matter, by fitting them better to hold

its clasticity. By this marvellous opera- plished by chem cal means, is to ascertain The soils which are not benefited by tion, the most ordinary woods become the degree of purity of the lime, and to quick-lime, are those which are poor. light suse puble of being polished and improg- infer. from this to what kind of soil it is and thin; those destitute of inert vegetanated with the richest colors and most best adapted. Thus a life which con- ble matter; strong stony lands; wet cold delicate odors, by which they are clevated tains much trailecours at h. [clay] is loams, and all lands which have not been to the rank of the most precious of those 's mer alap't her a perer one to dry sufficiently drained; and on stiff clays that varie ies which are used in the useful or the state of the state of clayey lands are tenacious of moisture. Lime is only upon my administration. And in suc-

The preceeding remarks are from vol. S of the Cultivator, edited at the time by dissolved, owing to the deficiency of the by lime seem to have been suggested not shall be constantly addressed to the all by experience in its use but by a theory wise and all-powerful Being who made the clear liquor be decanted. Wash the that a principal action of lime as a manure me, and by whose dispensation I am called sediment with farther portions of water, is the decomposition of vegetable mat-

TO THE PROPLE OF THE UNITED STATES.

FELLOW CITIZENS: Before my arrival at the seat of Government the painful communication was made to you by the in your gift, and had selected him as your chosen instrument to correct an I reform all such errors and abuses as hal manifested themselves from time to tim + in the practical operation of the Gover .. ment. While standing at the threshold of this great work, he has, by the dispensation of an all-wise Providence, been removed from amongst us, and by the provisions of the Constitution the efforts to he directed to the accomplising of this vitally important task have devolved upor jected the wisdom and sufficiercy cf our institutions to a new test. For the first time in our history the per on elected to the Vice Presidency of the United States, by the happening of a contingency provided for in the Constitution, has had devolved upon him the Presidentia office. The spirit of faction, which is directly opposed to the spirit of a lofty patiotism. may find in this occasion for assaul + ceeding, under circumstances so sudden and unexpected, and to responsibilities so greatly augmented, to the administration of public affairs, I shall place in the intclligence and patriotism of the People my only sure reliance. My earnest prayer

