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By M. MAC LEAN.

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AGREGULTURAL,

IRON HOOPS FOR COTTON BALES.

A considerable degree of attention begins to be bestowed upon this subject .-The following encouraging view of the operation of the plan is taken from the Yazoo city paper. It is from the pen of Vincent Galloway, Esq., now a cotton factor in the city of New Orleans, but formerly a resident of this State:

"I hasten to reply to yours of the 20th inst., relative to the use of iron hoops in place of rope on cotton bales.

"As to a deduction of a dollar a bale on cotton put up in hoops, it is by no means general in this city. A respectable firm here informs me that they have received fifty cents a bale addition, on account of the iron hoops, because the cotton did not require re-pressing. A vessel left here the other day with a greater number of pounds of cotton in iron hoops than she had ever taken of re-pressed bales bound in rope; because iron bound bales keep their shape and size, and may be packed perfectly close. The mate of a ship, on being asked the other day which he preferred, said he would rather load two vessels of the same size with cotton in hoops than one in rope, 'because the iron bound bales keep their shape, are easier handled and jacked home.'

"I agree with you that hoops will come into general use. All the planter has to presses of do to accomplish this is to use sufficient power to make bales of 400 lbs. weight, 22 by 24 or 24 by 24 inches and four foot 6 or 7 inches long. This will save in the quantity of bagging and bands ten inches in the breadth of the bale and six or so in length, and 'last but not least,' seventy five cents a bale for re-pressing. The direct and immediate saving in expenses by using iron hoops will be about one dollar and twenty-five cents a

STATE OF AGRICULTURE IN NORMANDY.

It is interesting to the farmer to know how the tiller of the soil in other parts two or three horses, make the teams which of the world conducts his operations, are extensively used in Normandy." what his course of crops and modes of culture are, what his implements and aniare usually reared, while the bull calves promise. The first great consideration, mandy, a province of France, from a paper in the Quarterly Journal of Agriculture for June, 1841.

taining about 2 700,000 inhabitants. It an I the meat firm. differs from most of the southern and eas. particulars. "Instead of extensive tracts of tillage, without any visible subdivisions to make out the different ownerships, and and fine forests of surpassing beauty, in- we have sufficient proof in the small size over to be trodden upon by the cattle; orchards and meadow or grazing land."

those who take their own produce to mar- ernment, is located at St. Lo. At De rial into manure: it is a great mistake to ket, and at home live as poor as it is pos- Pin, are kept 500 horses and mares, and keep cattle enough to eat up all the straw, sible to imagine. The following extract at St. Lo. about 120 stallions.

American) to conceive how a man can ings were as follows:

dict."

In the management of their cows and awarded." dairi s the Normans do rather better, and the quality of their cream and butter | these advantages :cannot be surpassed. The cream alone is Dutch dairies,) and this operation is per- the sock into the land, or to keep it in its moment receives protection, which is the for business, will make the whole comstands only a short time. A sweet green ry. pasture in summer, and sainfoin hay in ter. Beets are sometimes given pretty regular depth. freely in winter, but though this food increases the milk, it does not improve the sloping land as on a flat. butter, and with limited exceptions, neither beets, potatoes, or turnips are given kind of mechanism, which can be applied ate benefit from it. It is a singular fact, as may be supposed, regularly became to the cows that yield the best butter. It at the expense of about twelve francs, to that most farmers prefer manuring their more and more disordered. His estate. is found by experience that "the applica- any common plow." tion of dung imparts in spring time valua.

rank flavor to butter." The Norman dairymen insist that dairy houses should have a northern aspect at all times, as a south wind is prejudicial the system of farming adopted by M. du to milk; that cream should not be left in the milk room, as they mutually exert a pernicious effect on each other; that the floor should be flagged and washed in summer, to preserve coolness; that in the winter the milk should be strained into pans as soon as possible after milking, while in the summer the cooler it can be ma le, the better it is for the cream. Pans of common carthenware, are preferred to col has determined on a course of eight years, any others, having been found superior even to porcelain.

"The cream is skimmed twice a day generally, sometimes three times, and care is taken always not to leave it too long on the milk. Twenty-four hours, His potatoes are a large yel ow, early variety, (sometimes forty-eight,) in summer clapse | a red, and a large white for swine. He has before the first creaming, and the cream is allowed to lie as short a time as possible

admirable for dairy purposes. The breed of cows most common and tle most esteemed in Normandy, resemble the Alderney, and as this province is Norman breeds. The Agricultural Association of Normandy have imported from England some fine short hern bulls and cows, with the intention of improving the stock of cattle. There is an Normandy a coarse hairy breed of cattle which are much used for the plow and cart, "and four or five of these bullocks or oxen, with

In the dairy districts the heifer calves mals, and what his domestic and social are fattened for the market. In some condition is. With the intention of grati- plac is they are fattened on skim milk, fying this laudable feeling, we shall give and in others on new milk; and in some a few extracts on the agriculture of Nor- districts bread, converted into a kind of pap, is added to the milk to facilitate the process. The Norman hog is of the worst possible description as to form; but Normandy is a province of France, wh n fattened the flavor of the pork par-

Centuries ago, Normandy was the tern parts of France in many important country from which the flower of European chivalry derived their best horses .-The breed was then large, active and for their protection. Let all his rye, powerful; but although still active and without trees, except the formally trimined hardy, it has degenerated in size so much, and his corn stalks, buck-wheat straw, ones on the road side, Normandy is a that the Norman horse is now one of the wood's earth, leaves and every thing, that continued series of well timbered farms smallest of European breeds. Of this can be converted into manure, be thrown terspersed with corn fields of small extent, and hardy character of the French Cana. and at the end of every month, the whole mal. They rarely attain fifteen hands should be thrown together in a pile; scat-The soil in Normandy is considered in height, are short necked, have good fore tering a few bushels of lime over the manthe richest in France, in many places legs, but frequently imperfect hind ones, highly calcareous, and in general well but as a breed will go faster and do more adapted to cultivation. The farms aver- work than their appearance would at first age about sixteen acres each in extent, indicate. Attempts are making to imand are held under leases of the usual prove the Norman horse by crosses with term of nine years. But about one half the best English blood, for the purpose of of the farms are held by the proprietors; furnishing horses for the cavalry service; and these proprietors are in a majority of and one of the Government Haras, or instances farmers of the lowest class, or stations for stallions provided by the Gov-

will show what the living of the French The French government do for the provinces, what associations or individuals | much manure as if it passed through " Many of this class, (the small farm- among us do for agriculture; it furnishes ers) like common laborers, dine upon a funds for agricultural societies, plowing few apples or pears, and a bit of bread, matches, &c. and the latter are held by without the formality of sitting down at authority of the state. Not long since fold. table, and are content with a drink of one was held in the commune of Augertheir own home-made miserable cider .- ville, for which 1,000 francs were appro-It is not easy for an Englishman (or an priated by government, and the proceed-

work hard upon the washy diet so genc- "The ground being marked out by ral in France. We have seen men cut- stakes at equal distances, and five judges to the improvement of our poor land than ting up wood for fuel, (which is hard appointed, sixteen ploughs came upon the any other course that can be imagined .work.) from morning till night, and in ground: of these, fourteen had a pair of Manure, like every thing else, is perishathe severest winter season, without more horses each, one a pair of oxen, and one a ble, and proportion as we postpone the nutritous food than indifferent fruit, and a single horse. Nine of these plows were benefits to be derived from it just in that little bread; the soup taken, perhaps, for of the Norman form. After having proportion do we lose them forever. The supper at home, or for early breakfast, is, plowed a field which had no particular great object then, is, to seize hold of these if possible, worse as a means of support, difficulties, the teams were removed to benefits immediately upon its applicafor it consists merely of cabbage and hot another full of heath and broom, and the tion. In order to effect this, plough up water, with a little grease or kitchen stuff; competitors were allowed the use of an the land, you proprose to improve, in the it distends the stomach with wind, and additional horse or bullock. Out of the fall, and harrow it down-or if it is corn therefore is totally unswited to a working sixteen which had plowed in the free and land, it is already prepared. About the man, who should have solid, not liquid open field, only nine appeared on the sac. 1st of April; manure it broadcast, not and trial. In this unbroken and rough very heavily for the great advantage in

formed twice a week, so that the cream true direction; a driver only is necessar great secret of improving land. By the paratively easy.

2d. It can be set at any depth, and the winter is considered the best for but- turns over the furrow slices at equal and ing in their manure too deep-instead of but he was an easy "good for nothing"

But the improved Dombasle plow is the ble qualities to dairy pasturage, but the general favorite among the best French farmgrasses in summer give, on dunged land, a ers. It is modelled from the Scotch plow of Small, but with the defects of that corrected, and is furnished with wheels. as is also the Grange plow. There is in the paper alluded to a sketch of

Moncel, near Cherbourg, on his farm of about

-00 acres. M. M. makes potatoes the base of his system of culture, using the drill plow and horse hoe. He has tried turnips and carots, but has rejected these for the potatoe, "since though the first roots are the most productive, the potatoe is twice as nutritive, (comparing equal bulks) besides its increased value as an article of human sustenance." * * * " After various experiments M. Mondivided into equal periods; in the first four years, he has successively potatoes, barley, clover, and wheat; in the second, buckwheat, colza, wheat, and oats." Of the artificial grasses he gives a preference to lucerne, though he has also vetches and red clover .-

proved these to be the best. A small stream passes through the yard of turned out, and at night kept in stantes and at night kept in stantes and supplied with sainfoin hay, which is his barley, wheat, and buckwheat; converting his for dairy numbers of and steam into the stantes of the s carrots, &c. Thus without leaving the yard, the grain is reduced to flour and bran from the sheaf, and the straw cut for cattle. From this use of power, our farmers might take a adjacent to Alderney, Jersey and Guerne useful hint, and in addition to the above opesey, as well as Brittany, there is little ra ions, the same power might be made to doubt of the identity of the Alderney and | saw the wood of a family, and crush the corn with the cob for the stock.

tried some twenty kinds, but experience

From the American Farmer. IMPROVEMENT OF POOR LAND-ACCU-MULATION AND APPLICATION OF MAN-

WASHINGTON, FEB. 11th, 1842. Mr. Editor,-In my communication I promised to give you some of my notions concerning the improvement of poor land, and shall now endeavor to fullfill my next and the greater, the proper application of it. There is no farmer who pretends at all to the advancement of his interests, but can raise a good pile of manure by the opening of spring. To this end he must not sell, or carry off any thing that will contribute to the general store .divided into five Depar ments, and con- tic larly the bacon and hams, is good, He should have a commodious stable yard, the centre of which should be at least 2 feet deeper than the out edges, his cattle should be kept during the winter in this yard, which should have proper sheds wheat, and out straw be fed to them here. ure, before throwing it up, will be of great service to it. If he attends carefully to these points, he will not be ashamed of his manure pile when the proper time arrives for hauling it out. One great preventive among most farmers, to the accumulation of manure, is, that they keep too much stock; a farmer should keep barely enough to convert his rough mate-&c. on the farm; a ton of straw placed under cattle will produce three times as and be quite as valuable; -bed your stock well then you will do a great service to them, and increase your manure three-

Now comes the most important point connected with our subject, and that is, the proper application of manure-I really believe that the want of proper attention to this matter, furnishes more impediments

above plan, you also get rid of that great | I once knew a woman who had a remistake among most farmers, of plough- markably kind and affectionate husband, loasing any of the benefit of this manure, sort of a creature-would sit in the house 3d. It moves as easily even on very you bring its whole power to bear. It is all day, kiss his wife and caress his chil-These effects are produced by a simple and your oats and clover derivs immedi. way of business. This good man's affairs, corn land to any other; now the least re. which was at first an ample one, got into flection would or ought to convince them ruin, and a heavy debt added greatly to they must deny, that manure losses any this good man, but bad manager, died. of its good qualities by exposure to the The affectionate widow, was almost oversun and atmosphere; for certainly in ten- whelmed with sorrow. Here she was ding the crop of corn, he must neces- family dependent upon her for a support, sarily turn up more than once the manure and with a large debt for which she and expose it to evaporation. And all had to provide, and all this in though this is the last crop upon which the very midst of affliction and manure should be used, yet putting it bad health. At length, when her upon ground in the fall is almost equally grief had exhausted itself, she rallied her erroneous; for it is as little benefic al to energies, and showed what she really was. manure to expose it to the frost and rains A combination of circumstances now calof winter, as to the summer. Some pre- led her true character into action. She fer putting all their manure on their pota- mounted her horse, and rode over her to crop, but this, though profitable, per- farm; the broken down fences were rehaps in one sense, is a poor way to im- paired, order was called out of confusion prove land, for potatoes is a crop that re- and with the aid of a head man alone, quires a very heavy manuring, if planted the estate was in a few years, completely on poor land, (which we must take for relieved from its oppressive debt. This granted, as we are now treating of the par- good lady, though now far advanced in, repeat, that all land which is intended she did in her more youthful days, and all for improvement, should not be pastured, is to be ascribed to her enterprise, and you first undertook to improve; this is oc. effect. casioned by taking off what you should Never manure land but once, is my max. that whatever I got should be of the very have brough in all your poor land so pro- will state, that the cheapest cow I ever duce clover, then you can begin a second owned, cost me when delivered \$95. And manuring, and so on ad infinitum. To in purchasing my fine hogs some time recapitulate then, my practice is to take a | ago, I got some as low as \$30, but among poor peice of land, plough it up in the fall, them, there was one for which I paid at plant it in corn as directed by my former | least \$120, and this is decidedly my communication, (which if attended to, cheapest hog. will pay well for the trouble.) then in the follow spring, spread a thin coat of manure | mark, that farmers very often commit a ter brushing the ground level, sow about ney; whereas the cheapest are those soon have very little poor land in Mary. | contribute most to our convenience and land. In my next I shall say a word or gratification. Perhaps there is no intwo on planting potatoes, &c.

THE FARM AND FARMING OF THE REV. J. H. TURNER-NO II.

From the Farmers' Register. ment, in the hurry of writting, I omitted and steady market, together with other an illustration which I will now supply. things which make land really valuable, seer. I once had one, but he, though a the sole consideration of a cheap purchase. very honest and respectable man, gave A little good land in the neighborhood of together. I constantly had to do the ion, than all the lands of the moon and of very things which I paid him to do. It the seven stars put together. is a very rare thing that the hired men has any eyes except for his own interest. ed, livee on my present farm as long as Accordingly, I had to see every thing, he could. My old friend, John Carter, and tell the overseer about it, and direct has several times told me that his last him to do it; and this gave me more trou- crop of corn consisted of stalks not larger

ble than to do it myself. very expensive things. In addition to And as I have had occasion several times their wages, their families, if they have to make public mention of this gentlema i, any, must be supported. An extra horse It'will tell the reader who and what he is. must be furnished for the man to ride. Mr. Carter is a plain man, without eduand an extra cook for the lady, and an cation, and has sense enough to make no extra cow for the family; and when these, pretensions to it, as a man of close, contogether with the multitude of other name- stant and accurate observation, always less cutras, are taken into the account, experimenting, and would certainly long the aggregate becomes very formidable in since have ruined himself, but that he the catalogue of expenses. Accordingly, deals in this dangerous article in a small it is no uncommon thing for the overseer way. In this way he has stored his mind to become rich much faster than the em- with an exhaustless variety of facts, which ployer. Instead I have several times his great kindness prompts him to comknown him to acquire a handsome for municate for the information of all. His large estates, it may be necessary in some general conclusions from particular cas is. instances to have an overseer, but in or. But to return from this digression. My dinary cases, I do think it would be better predecessor being thus starved out here, to repose the necessary confidence in a followed the great multitude to the west, faithful servant, and thus invest him where I doubt not he found better land, with the authority and responsibility of but I do doubt if he found more substana head man. On small farms there is no tial means of improving his condition. doubt on this subject.

ewn manager in his proper department, portions of it were so destitute of cover, places. There also I had the most strik.

Much cannot be said in favor of the field many failures were soon apparent; this mode consists in bringing in the great- she ought to make her influence felt in | that the straggling cattle, in their wand-Norman sheep husbrandy, as there is some stopped short before they-had well est quantity of land with the least amount all the departments of her proper sphere. little or no free range for them, and they turned a furrow, seeing that the work was of manure; sow immediately upon the Instead therefore of paying another woare kept in small lots of three, four, or above the power of their cattle or their manure, about a bushel and a peck of good man to carry her keys, to lock and unlock half a dozen, and usually tied by the legs plows; others stood out longer but made outs to the acre; plough all in together the meat house, to visit the kitchen or together, even when they have lambs, a very bad work, and two plows only over- with a shovel plough, or light barshare; dairy, or to superintend the poultry estab- a small farm, with the view of making is course incompatible with thrift, "and al- came the difficulties under which the oth- run a broad heavy brush over it, and lishment, she ought to do these things my own. I saw many, but for reasons together a worse description of sheep ers failed. One of these was a new plough sow immediately about a gallon of long herself. Nor let any active healthy wocannot be imagined." Attempts are called the Grange plow, and the other clover seed to the acre. The benefits de- man (and these are the very women for making to improve them by the introduct the Dombasle plow, and to these two, and rived from this mode are these—you get farmes' wives) feel that in undertaking my eye rested on this forlorn spot. It tion of the Leicester and South Down. the one horse plows, the three prizes were about 30 bushels of oats to the acre, equal these things she will encumber herself to ten of wheat, (which we very rarely get with over much serving. It is true that The Grange plow is described as having from poor land, even if highly manured) these duties, if faithfully performed, will your young clover becomes immediately make it necessary for her to stay pretty "Ist. It works of itself, not requiring shaded by the luxuriant growth of the much at home; but then industry, connecchurned (not the milk as in some of the the hand of a plowman either to enter oats, and your land and manure from that ted with early rising, and especially a tact

As another matter of conomy, I will

And here I will take the liberty to re-

on it, sow about a bushel and a peck of capital blunder in this important thing. oats to the acre, and plough all in togeth. They often suppose that the chespest er, about 2 1 2 or 3 inches deep, and af. | things are those which cost the least moa gallon of clover seed to the acre. If which yield the greatest profit on the th's method was adhered to, we should amount expended, and at the same time stance in which this mistake is more frequently and strikingly displayed than in the purchase of land. In this important matter, farmers seem often to lose the faculty of looking ahead, and fix their eye In a former communication, when only on the present expenditure. The reating of a sound economy, that most essential points, fertility, faculties for imindispensable appendage to good manage. provement, and convenience to a good intended to state, that I keep no over- are all lost sight of, or are all merged in me more trouble than all the negroes put a good market is worth more, in my opin-

My predecessor, as I have been inform. than his fingers, and he verily believes These overseers, besides, are generally that it did not yield a peck to the acre.

This land being thus abandoned, re Connected with this, I will, with the mained for a long time (a small part exrisk of "bringing an old house over my copted) in what is called the old field head," say, that the farmers' wife ought state. Some of it, is true, had strength in ordinary cases to dispense with her enough to put up a sweethrier, a persimon, housekeeper. Whilst her husband is his a young pine, or a coder bush; but large

erings, merely passed over it, without stopping to take more than a bite or two. In the mean time, I was busily looking out in the neighborhood of Richmond for which it is not necessary to detail, I could not or did not obtain them. At length was in market, and notwithstanding the almost hopelessness of its aspect, I resolved on a purchase. In the midst of the many discouragements with which it was surrounded, there were however some redeeming circumstances which went a great ways towards reconciling me to it. Its position, for instance, was in that direction from the city in which improvem nt was making the most rapid progress. It was situated on a good and level road, so that access to it would at all times be easy. Its surface was neither so hilly as not exposed to the winter frosts, rains, dren, but would do almost nothing in the to subject it to washing, nor so level as to retain large quantities of stagnant waters. Besides, when I came to examine the land itself, it was not so desperate as its first appearance indicated. It is true that a considerable portion was low, lying of the fallacy of such a course, or else their difficulties. In this state of things, long both sides of three branches which passed through i', nearly the whole of which was a col i, teracious pipe clay. But the remainder, which was far the greater proportion, was a light silicious soil, firmly imbedded on a strong red clay foundation.

These then are the materials on which I commenced my operations. In the details, I have perhaps been too particular, but I thought it necessary to be thus minute, that the reader might have a distinct view of the whole subject. And no v the absorbing question with me was, how I could most speedily, and at the same time economically, bring these desolate lan le into a state of profitable cultivation. To plant or sow them in their present state was a folly of which even a tyro would not be guilty. In this emticular kind of land) and I would here life, enjoys better health and spirits than ergency, I had almost no assistance except my own reflections, aided by the life tle experience I had acquired in my very for by so doing, you exactly undo what industry. Should these remarks meet early youth. At that time (15 years ago) you should do, that is, deprive the land of the eye of this good old lady, I hope she Liebig had not written his "Organic that shade, which is the great means of will excuse them. I submit them, not to Chemistry,' in which he sets forth the dust, nor any other of the "multum in parco" manures of which the locks to at leave on. Land, then, under a course of mention, that in the various appendages at the present day. If the editor's inv !improvement, should not be pastured .- and fixtures of my farm I made it a point, uable 'Essay on Calcareous Manures' was then in existence, I had not sen it. im; that is, while you own any that is too best order, and that without regard to the But in the midst of my want of informspoor for cultivation without it. If you original cost. As an instance of this. I tion as to other and better means of improving lands, I was satisfied of the great and certain efficacy of rich putrescent manures. This was then my resource, and I availed myself of it with all the means in my power. In the beginning, as might naturally be supposed, I made many mistakes in the use of this article, For instance, I used it in the drill, when I ought to have applied it broadcast, and I immediately covered it with the plough, whereas I am now convinced that I ought to have left it on the surface. But amidat my blunders, I conceived the idea of making all the manure I could at home, and then of adding to it all in my power from town; and this I am sure was no

> The reader is now in possession of the chief material by which I have brought my farm to its present fertility. The quantity used at first was about 50 cert loads of 25 bushels each to the acre. This materially improved the land, as the cross clearly indicated. But I could plainly perceive that there was an evident falling off in the second, and especially in the third, and fourth crops. This made a second manuring necessary; and I am now convinced, that excessively poor lands, such as mine were, cannot be made permanently rich under three distinct manurings. These several applications ought to follow one an ther at intervals of about three years. I find that land managed in this way will regularly furnish a crop every year, and at the end of nine years, have so much fertility as greatly to aid itself, by the rich luxuriant vegetation with which it is clothed. Subsequent cropping will make addit o al manuring necessary, but then half the origina' quantity will be sufficient. Our small farms, brought to this fertility, and regularly treated in this manner, will furnish a crop, according to the season, every year, and so far from deteriorating, will constantly improve; and this I call the. "ne plus ultra" of good farming.

But there is another article, which I have used to a considerable extent, and with most decided advantage in enriching my farm; and that is the coal ashes. It was observation, and observation alone. which induced me at first to resort to this: tune, when the employer lost one. One sole fault is, that he is too prone to draw substance for the above purpose. I hadr never seen nor heard of its being used for any other object than that of stopping a: ravine or of making a foot path to cross. the muddy streets of a city. But I had remarked the Jamestown weed and other rich vegetation growing in the most lux-uriant manner, around the edges of heaps of this article deposited in gullies and other very poor places. Doctor Tazewell. also from whom I made my first purchase. in sending for wood from his lot, had been in the habit of carrying out cost; ashes and depositing them on the poor