By M. MAC LEAN.

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AGGREVLEURAL.

The following remarks read by the Editor of this paper to the Pee Dee Agricultural Society, at its late annivereary, were hastily thrown together, just before the meeting of the Society, under constant interruptions. The Society having requested their publication, the writer consents, not because he considers them, as an address, fit to be published; but because he has always urged the publication of whatever is written for the Society, and he cannot exempt himself from a rule which he applies to others.]

ANNIVERSARY ADDRESS . READ BEFORE THE PEE DER AGRICUL-TURAL SOCIETY, FEBRUARY 22d, 1842.

Land of common quality yields com mon profit. Or to state the principle more distinctly: Land of average fertility, compared with the entire body of lands whose products enter into equal competition with its own, will, in the long run, with average management, yield an average, or barely remunerating return for all expenses incident to its cultivation .-This proposition is as true as it is, that according to a natural and well understood doubling his gross income, he incurs no law of trade, prices will ultimately find additional expense for the purchase or suptheir proper level. It is, in fact, only a different statement of the same truth. It sicians, bills, or implements of husbandfollows, of course, that lands of less than | ry. average fertility cannot, commonly be cultivated without loss; and also, that lands of more than average fertility, properly managed, yield an income over and above an adequate or usual, that is, an terioration, to 10 hands, would equal average return for the labor of cultiva. \$10,000, or 1000 for the quantity to be crop. Ten bushels to the acre is quite tion. There is no principle at the foun. | cultivated by each hand, is a question for dation of agricultural finance, which it is more important for Carolina planters to understand and bear constantly in mind the land costs less than the purchase of than this. It is the influence of it that has, for the last quarter of a century. been draining our wealth and population into the valley of the Mississippi. And, as surely as water seeks its level, it must continue to do so-in currents, it may be, sometimes more sluggish, sometimes more rapid,-but the flow must continue, till the supply shall be exhausted, except perchange our system of management, if can cultivate, and it is necessary, under the four, or other meat equivalent; which system it can be called that is no system at all. As well might we expect a balance beam to maintain its level with a preponderance of weight on one end, as the cultivators of poer soil to maintain not, however, abstractions in metaphysics or greater number who cultivate a rich soil producing the same staple. It is impossible in the very nature of things that the cultivation of poor soils with labor the price of which is regulated by the productiveness of rich soils, can be long continued without ruinous loss. Whilst the consumption of cotton continued to extend in something like the same proportion with the production, the cultivation of common lands in that staple yielded a large profit, and the cultivation of rich lands an mordinate profit. But this time is passing away. The supply gains rapidly on the demand, and must ere long equal, and, perhaps for a time, exceed it. When the great extension in the cultiva tion of cotton which is yet to take place in the present forests of the South West, and of Texas, and perhaps of Asia too, shall have reduced the price to a bare remuneration for cultivating lands of average quality, what will then be the reward for cultivating our lands? It will be just as much below a fair remuneration as the fertility of our lands is below the average

What is our remedy? We must look out for some other staple which shall do as well in our poor lands as cotton does in richer lands, or, if we cannot find such staple, then our only alternatives are, hopeless poverty, or a change in our mode of management by which our poor lands shall be fertilized. Other expedients may retard our downward tendency but cannot arrest it.

fertility of the entire body of cotton

It is most remarkable how loose and indistinct are the notions of most planters in regard to the comparative advantages and disadvantages of cultivating rich and poor soils. They have some vague impression that a rich soil is best because they have seen heavy crops grow on such tivate them grow wealthy. But in what degree it is best, or to what extent a culturator is remunerated for making his poor

the gross proceeds \$225, instead of 150. the laborers. Inasmuch as the labor of cultivating rich capital invested. Or if any expense has been incured in improving the land, then the 50 per cent, or \$75 per hand, is the return or profit from that expense. And if the improvement has been properly made, and the subsequent mnnagement of the land is properly conducted, it may be considered more than a biennial profit upon the cost of improvement; because land may be cultivated oftener than every second year without deterioration.

If we suppose the fertility of the soil to be increased 100 per cent instead of 50, making the gross proceeds \$300 per hand. then half this amount, or \$150 per hand, is the return from the expense of improvement. It follows that a man who doubles the permanent productiveness of the land he cultivates, doubles at the same time, and by the same operation, the value not only of the land, but also of the labor of cultivation subsequently bestowed upon it. He doubles the value of both his plantation and his hands. A man who tions, without any calculation of the loss works, at a fair profit, ten hands worth or gain. He did not seem to discover his \$6000, on a plantation worth \$4000, if he can double the permanent productiveness of that part of his land in cultivation, does what is equivalent to adding \$10,-000 to his productive capital; or what is equivalent to laying out \$10,000 in the purchase of lands and negroes ;-and indeed a great deal more, because whilst port of horses, the support of hands, phy-

Whether or not the cost of doubling the productiveness of good land in the Pee Dee country, sufficient in quantity to give permanent employment, without deevery planter will admit, then, as plainly as 2 and 3 make 5, is it a better investment for a Carolina planter to lay out his money in the improvement of his land necessary to procure both land and laborthe common mode of proceeding, to purchase only laborers.

These estimates, it may be said, are based on mere abstractions. They are their ground in competition with an equal or politics, but in arithmetic which never lies; and the infallible test of experimental demonstration is easily applied by any planter. But let us come to the actual state of things as they exist in the Pee Dee country, and make that the basis of some estimates.

The average yield of cotton, our staple, and almost, our only marketable product, does not exceed four bales to the hand, with a provision crop. But to give the ter may make less than four and a half life time, with all his hands, upon his counts current with his poor land, he neighbor's plantation, for no other compensation than his and their current expenses. But the proper question is, Does he add to his capital as much as the capital and his labor of superintendance farmer or planter. The chief reason, ought to bring in to him? What kind doubtless is, that he has acquired the habof economy is it to buy land and spend it of calculating the profits and losses your life in making hands cultivate it for mere food and clothing, or for these with an addition of 15, 20 or 25 dollars each,

Let us make some estimates bearing on profit of only 3 per cent. when you might, this point. Suppose the quality of a tract by putting it out at interest, realize 7 of land in cultivation to be such that un- per cent. without labor or risque. When der proper management the gross proceeds a planter's land is of such quality, that amount to \$150 per hand, and that this he cannot clear, by cultivating it, as much sum is just equal to the common wages of as the amount for which he can hire out such hands, rent of land, and all other ex- his laborers, added to the value of his own penses, superintendance included; it is time and labor of superintending them, plain that the business is remunerating he is a bad economist if he cultivates it and may be advantageously continued. in that state. It is as clear as that 2 and Suppose now the productiveness of the 1 make less than 5, that it would be betland to be fifty per cent. more, making ter to give away the land, and hire out

If planters, especially those who cultisoil is not greater than that of cultivating | vate poor soils, would take pains to calcupoor soil of the same texture, the entire late the expenses and profits of their difincrease of production is clear profit over ferent operations, they would be saved and above a remunerating return for the from many blunders which they often, not to say constantly, cor mit, and from much loss which they sustain, year after year, throughout their lives. To illustrate the effects of this want of calculation I shall state an instance.

A merchant in one of the upper counties of North Carolina applied to two of his neighbors accustomed to wagoning, to haul cotton for him to Cheraw. One engaged to do so, and the other declined, because he had corn of his own raising to haul, for which he needed and must have the money. The two neighbors came door is now closed against every alternadown together, the one who hauled the load of cotton bringing with him an order for payment from the owner to his factor. It so happened that the factor bought the corn and paid both wagoners at the same time. The hauling amounted to \$26 and the corn to \$24. The raiser and seller of the corn proceeded as he and very many others do in most operations connected with their farms and planta. error till he saw the difference in the amounts paid to himself and his neighbor, when glancing alternately at the two little parcels of bills, he remarked, with no little mortification: "I have lost two dollars if I had stole the corn." Many planters, who little suspect it, would, upon calculation, find this anecdote, in its financiol aspect, an apt illustration of some of their own operations, if not of their entire course of management.

But to return to our estimates: Al though cotton is the staple product of the Pee Dee country, indian corn is a necessary adjunct; and its cultivation forms an important part of the labor on every plantation. Let us inquire what profit the planter derives from this part of his the practical agriculturist to determine corn in the districts lying on the Pee by experiment. If the improvement of Dee. It requires four hands and three horses to cultivate 100 acres of corn .both land and laborers, as I have no doubt | From 1000 bushels, the estimated yield of this 100 acres, one fourth, or 250 bushels should be deducted for the use or rent of the land. The horses will consume, at a very moderate allowance, 40 than in the purchase of more, with slaves bushels each, or the three, 120 bushels. to cu tivate it. If this is true when it is The hands will consume 10 bushels each. allowing them peas and potatoes, or 40 ers, how much more is it true when a bushels in all. They will also consume planter already owns more land than he 150 lb-of bacon each, being 600 lb. for at the moderate price of 7 cents, will amount to \$42. If we put down the expense of ploughs, clothing, medical attendance, &c. at the very low sum of \$10 per hand-not more probably than half what they would cost-we have 40 dollars for the four hands; which added to 42 dollars, the cost of meat, makes 82 dollars. To procure this sum will require 164 bushels of corn, supposing the market price to be 50 cents, though it is not now so much. We have, then, to deduct from the whole product of the 100 acres, 150 bushels for rent, 120 bushels for horse feed, 40 for bread, 164 for meat and other expenses, making in all 574 bushels. advantage in our estimates to the land, This deducted from 1000, leaves 426 let us suppose it to be four and a half bushels as the product remaining at the bales. The gross product of these four end of the year from the labor of four and a half bales, at present prices, will hands and three horses; being 106 1-2 not exceed \$115. Deduct the common bushels to the hand. This quantity, at wages of average field hands, say \$60, 50 cents per bushel, is worth 53 dollars and we have left \$55. When from this and 25 cts., from laborers which might sum we deduct the cost of clothing, salt, have been hired out at 60 dollars. So, iron, blacksmith's work, woodwork, over- according to our estimates, a man who seeing, medical attendance, rent of land, plants corn in land which yields only 10 use of horses, with allowance, for bad sea- bushels to the acre, the full average prosons and other contingencies, how much duct of the Pee Dee country, loses 6 is left for profit? Some amount, and dollars and 75 cents per hand, besides the that not inconsiderable, of the quality to labor of superintendance, even if he had which the algebraist prefixes his sign mi- stole his horses; for in our estimates no nus-, the English of which is, So much allowance was made for raising or buyless than pothing. The profits come up ing any. It will be remembered too, worse than did the farmer's hogs, which that, in our estimates, we gave the adonly came up missing. It is true a plan- vantage greatly to the land; a thing which no wise planter of poor soil will bales, or less than four bales to the hand, do, when he intends to make his estimates he may make less than common wages the basis of future operations. A planter for his laborers, and yet be adding some- in settling accounts with his poor neighwhat to his capital. So he may, with- bors, ought to let the advantage, when out reducing his capital, work his whole there is any, he on their side. But in acneeds it himself, and may take it without

> It has often been remarked that a retired merchant makes the most successful upon his investments. No man with the calculating habits of a merchant would refuse to haul a load for another at \$26, years for the fruits of their labor, a more

soils rich, they rarely trouble themselves than taking upon yourself all the labor and for \$24. Nor would be continue to plant ease of conscience. The speculator or as on his outlay? Here was a judicious of hazards of trading with your money, at a corn, for 50 cents per bushel, in land he is sometimes called, from the charac-30 dollars for laborers whom he could solid capital, and less labor, owing to data were procured to be a guide in future hire out at 60 dollars or more. None but a fool will continue an operation, as a sing, and must continue to lose money.

to find an opening in better business;

region of rich lands, even if we were sure of bettering our condition, it would involve the sacrifice of too many advantages and too many enjoyments more prized than money, or any luxuries which money could purchase. Here we can make food and clothing, if we cannot accumulate wealth; and here we are determined to remain. Well, it is pleasant to the lovers of their native land among us to hear such determination expressed. Many have come to a different determination, and had cause to repent it. The tive but penury or the improvement of your land. But, it is again replied, We have no time for improving our land. No time! That's like the loafer who spent an hour in gathering and hulling chinquepins for dinner, because he had no time to walk 15 minutes for a better dinner. Have those who object to the expense of time and money in the improvement of their land, calculated ?-Have they put down in figures, so far as it can be done, what would be their condition, one, two, five or ten years hence, with and without a system of efficient manuring? Not one of them ever attemptod it. They seldom take pains to supply themselves with the data from which to make such calculations. If they do a little manuring, they calculate neither the expense nor the profit. They may plead want of time as an excuse; but the truth is, it is not want of time, but want of spirit that prevents. It is only want of energy and enterprize-absolute laziness-that prevents enlightened tillers of poor soils from making them rich and productive. From an ignorant man nothing better ought to be expected .-Nothing produces nothing. But that the great body of educated planters of Carolina have done so little towards increasing or two hints. The common mode of the productiveness of their lands is a burning reproach to them. It is a reproach however, which there now begins to be some glimmering of a prospect they may in time, wipe away. More labor is now expended than formerly in improvng our lands; and experience is constant. ly deepening and extending the conviction that the labor thus bestowed is profitably laid out. One result is, that there is now less emigration than formerly, and the price of land is rising amongst us, whilst at the South West it is declining. In instances, not a few, too, the purchasers of lands from those who, ten or fifteen years ago, were emigrating to the western Elderado, are more prosperous than the former owners of these lands in their new homes. Only a begin. ning, however, has yet been made. But this beginning ensures a continuance. He must be a very drone, who, having once experienced the benefits of the fertilizing process, will not persevere in the use of it. The very aim of our planters is, however, yet short of the true mark. Their accomplishment must, of course, come short of it. If they can bring an upland plantation to produce six or eight hundred pounds of seed cotton to the acre they think they are doing wonderfully. So they are, according to their standard. But the standard is wrong. If at this point of improvement the expense begins to vield a remunerating return, then it is point beyond which all improvement vields inordinate profits; though the planter's conscience need not restrain him from pushing such profits to the utmost extent. By inordinate profits in this connection, I mean profits exceeding an adequate remuneration for the labor bestowed. All that a planter can make his land yield beyond a remunerating return is clear gain to him; as much so as the merchant's per cent, over a fair profit, or his savings by false measures and false balances, are clear gain to him. But the planter's gain is fairly and honestly obtained. In the direct ratio of the excess of product over the expense incident to cultivation, is the planter's clear gain .-This explains why it is that men who cultivate rich lands get rich so rapidly, even with bad management. The principle points to men of efficiency and some

capital, who have a taste for agriculture,

understand something of the process of

fertilizing, are of a calculating turn of

mind, and who are willing to wait a few

some fortunate change in prices, make operations. If the experiment had be more money in shorter time. But the repeated the next year on the same in Do! Why act like rational men and amount of his purchases and sales; that not like men demented. Quit planting ; is, proportionate to his capital and labor. or go in search of better land; or improve The manufacturer may do the same, but the land you have. But, it is replied, We the planter who improves his soil till the cannot quit. There are too many of us product is worth double, tripple or quadruple the labor bestowed upon it, thenceand as to breaking up an I going into the forth makes a profit in double, tripple or hausted land, from 1 to 15 bushels quadruple proportion to his invested capital and labor. And the lower the state of agricultural improvement in a country, etable over animal manures, in addition the less labor does it require to raise land to their greater economy, at that the forbeyond an average, or to an inordinate tility which they impartis more durable, productiveness. Less expense is required in the United States than in England and other highly improved countries, to raise land of given quality to a state of improvement at which it will yield the cultivator an income exceeding an adequate return for his labor; because here the average productiveness is less, or, in other words, there is less competition in this species of productive labor. But here more inventive enterprize is necessary; because it is more difficult to lead than to

follow in a course of improvement. It is certainly a good and sufficient reason for persisting in the improvement of soils after they are brought to a state of average or remunerating fertility, that the profits of cultivation are so much enhanced by improvement carried beyond this point. But there is also another reason for it. The same quantity of fertilizing ingredients adds more to a crop grown on rich than to a crop grown on poor soils; for this plain reason, that most fertilizers operate not only by furnishing food to the plants, but also, as tonics, so to speak. or as stimulants which cause the plants to take up nutriment already in the soil and digest or assimilate it. The richer the soil, therefore, before the fertilizer is applied the greater will be the actual increase of product from its application. Or, state manuring pays best. Mure the proaches the greatest degree of fertility which the crop to be grown on it requires,

or will bear. A few words new as to the mode of fertilizing. This is the most important, if not the only important part of our subject, and would itself afford ample scope for many successive addresses. But time now will allow me only to throw out one manuring practiced among us is to haul into our stables and lots leaves and pinestraw from the woods, and mild from the swamps. These are, in time, mixed and piled up; and then, after, sometimes more, and sometimes less decomposition, they are hauled out into fields and spread, either broadbast, or in the hills and drills. This mode is copied, with a little modification, from the practice of older countries, where land is scarce in proportion to labor, and cannot, on that account, be suffered to lie idle, or without a yearly crop for immediate use. In such countries it is necessary and it is also economthe price of land high. Laborious and expensive as it is, it is also found to be me to be the one best adapted to our circumstances. It is not the one pointed out the most economical, where the quantity of land bears so great a proportion as it does here to the number of laborers; and where of course, it can be allowed frequent respite from provision and market crops, for the purpose of producing, on its own surface, materials for its improvement. could state a number of instances, some coming under my own observation, of manifestly great improvement in land at little cost, by turning in green crops; but as such statements are unsatisfactory unless accompanied by accurate statistics exhibiting with some definiteness the expense, and in some tangible form, also, the degree of improvement, I shall confine myself to a single instance. It is an ex. periment made a few years since, by a member of this society, and published in the Southern Agriculturist. Cowpeas were sown broadcast in a field exhausted fallow, and not plowed. In the fall, wheat was sown in the land, and turned the different portions of the field was acit was found that the land manured by turning in the pea crop, yielded 15 hush-

of 14 bushels of wheat to the zere, worth

periment, conducted by a man who unwhich yields only 10 bushels per acre; ter and hazards of his business, the gam- derstood what he was about. Account nor to plant cotton at an income of 20 or | bler in cotton, may sometimes, with less | was kept of the outlay and income, and mere business, at which he sees he is lo- next throw of the dice may sweep it all the profit would doubtless have been still away. The regular dealer in merchan. greater; because the growth of the pea But What, asks the planter, can we do? dize may make profits proportionate to the crop, which was the fertilizing substance would have been much more luxuriaus upon the richer soil.

Let the planter who uses as fertilizors only compost heaps, accumulated from the woods, his lots and his stables, ca late at what expense he can, by his process, raise the production of wheat on acre, and then chose between the two It is chiefly by decayed vegetable matter that the otherwise barren sand and clay which constitute so large a proportion of the earth's surface have been converted into productive soil. Whence else is chiefly derived the exhaustless fertility of the Rad River and Mississippi bottoms. the Red River and Mississippi bottoms, and the fertility of all our river and creek hottoms?

I would not be understood as advising the planter to discard his compost heap. Far, very far from it. As long as it is found profitable let it be resorted to. But what I would suggest is, that a well con sidered system of green crop manuring be combined with the use of it. In this way the planter would soon be taught by experience, under what circumstances and to what extent, either should be prefered to

In green crop manuring nature is made to do the greater part of the work. She collects from the atmosphere, and duly prepares the fertilizing materials, leaving them evenly spread to the planter's hand; and requiring him only to turn the The quantity of vegetable matter w may thus be accumulated, by a proadaptation of the plant to the soil, a exceeds credibility; especially after the land has been much improved; in which at least, this is the case till the soil ap | 200,000 lb. of green corn has been cut

> There is another source of fertilization eccessible to the planters on and near the Pee Dee, which I can now only pame. I mean the limestone and marl which are found in quantities inexhaustible on the very banks of the river. The subject is almost new to many of us, and one in which we are deeply interested. If time allowed I would dwell at some length upon it. Those who wish information in regard to it are referred to the Farmers' Register, and the valuable treatise on Calcare ous Manures by the able editor of that ex cellent periodical; a work which ought to be in the hands of every member of this Society, and every planter on the riv-

Before closing I shall state an experiment made last season with the Pee Dee marl, by a Mr. Cunningham of Marion, on whose land a bed of it is found. It was spread at the rate of 200 hushels to the acre, on part of an old field of sandy soil, which had once been exhausted, and ical; because the price of labor is low and then suffered to lie out till it became covered with a growth of young pines. The marl was applied the second year after profitable here. But it does not seem to the land had been re-cleared, and the crop planted was indian corn. Upon measuring the crop after it was gathere by nature who works on a large scale; nor the yield was found to be exactly double that of adjoining land of the same qual ty, planted at the same time and cultiva ted in the same way. This information I received from a gentleman of intelligence and respectability who saw the crop growing and saw the corn measured when it was gathered. Not knowing that I should use the information in this way, it did not occur to me to inquire what was the vield to the acre; but my informant stated that the growth was very luxuriant, that the number of stalks in the hill was two; that the corn succored freely, and that on some hills he counted t many as seven good ears, some of the on succors.

Lime can be delivered on the banks of the river, not far from Marr's Bluff, at one dollar per barrel; and at a less price if the purchasers furnish boxes in which to receive it. Marl can be shoveled from by previous injudicious cropping, before it the bank into flats or hoats lying in the passed into the hands of the experimenter, river; and according to the best information and of a soil adapted to that plant. For tion which I have been able to collec the purpose of testing the value of the op- it may be delivered on the river bank of eration, part of the field was left entirely this place, at a price not exceeding 5 cents per bushel. Now supposing 200 bushels of marl, per acre, to double the planter's in with the crop of green peas, and where crop, without increasing his labor of cutthe peas had not been sown, with the na- tivation, whether, in that case, it would tural growth. The wheat which grew on be a profitable operation for him to purchase it at that price, haul it to his plantacurately measured when harvested, and tion and spread it out, is a matter of ca culation which every one may make fo himself, in his own circumstances. The els to the acre; whilst that on which noth. fertility imparted to soil by lime is more ing but the natural growth of weeds and durable than that imparted by grass had been turned in with the seed, any other manure. The effect of its yielded only one bushel. Here was a gain application to lands in Virginia 50 and 60 years ago are yet manifest, by the superiority of the crops produced by these probably 18 or 20 dollars, from an outlay of a bushel or a bushel and a half of pens, lands, compared with those produced by in all not worth, on a plantation, more adjoining lands. Lime seems to effort than from a dollar to a dollar and a half. permanent amelioration in the texture and