ire, Politics, and the Carrent Hews of the Bay

E VS. COMMERCIAL PERTILI-

read by Maj. J. L. Coker, Hartsville, before the Darlington Agricultural Society, Aug. 14, 1877.

It becomes us as farmers to reduce our expenditures wherever possible-to substitute, as far as we may, home-mad; articles for those which we now purchase from abroad—to increase the balance of exports

over imports.

If the income from articles exported and sold, exceeds the cost of articles imported we are certainly making progress. Our policy should be to gather in the riches of other countries, by selling them our productions; at the same time producing for our-

selves what we consume.

So plan a proposition requires no argument, and it is so frequently demonstrated before our very eyes, that we need not look abroad for the many evidences of its truth. Acknowledging this, we concede at once, that home-made fertilizers are to be used in preference to commercial fertilizers, in all cases where they are equal in value and in cost. But it seems that I am expected to show that we should dispense with commercial fertilizers altogether, and this is no easy task. For while I am very clearly of the opinion that we should devote far more attention to the home production of manure, I am not couvinced that we should relinquish the use of guano, superphosphates and chemicals, as fertilizers, to supplement and improve those produced on the farm. It would seem to be indicated by the processes of nature, that the one creature of exalted intelligence, placed upon courth by the crea-tor, should restore what of value has been transferred by gradual but by constant movement, from the land to the sea. Every mountain stream is bearing along with its waters the soluble matters extracted from the bosom of earth. Evrery rain lifts from earth's surface particles of the soil and bears them down through branch and creek and river, until into the lap of ocean are deposited the substances gathered from the land. It seems proper that man should take back from ocean the riches with which she has become engorged and should thus keep up the equilibrium, which would otherwise be lost. So from the cemeteries of gigantic sea animals, he exhumes the monster skeleton's, and gives them to the soil. He also removes the deposits of guano gathered from the sca by birds, and distributes these. And the fish, he takes from the teeming waters, coning the remainder by suitable agencies into fertilizing material for the denuded land .-So too he brings back from ocean its salt and lime, and by his activity and intelligence he repairs the ravages of time. The best experience of the farmers of Europe and America, is in opposition to the doctrine that we should rely on home-made fertilizers alone. Our own experience in this section is decidedly in favor of the judi-

to the bulk of, domestic manures. Ve are in a favorable position for ing manure from stock, for most of us have successful with the plans they commend to command of extensive tracts of wood land, others? If not we will prefer to follow the we can gather large quantities of good manure. This may be deposited at small expense in our covered lots and stables, or by furnish us ample supplies of litter for pens, lots and stables, and of rich earth for composting with such fertilizing material as our interests require us to purchase. I can hardly determine the relative proportion of stock to pasture lands, as the factors which enter into the calculation are variable; but I will say that most of us can largely in- of any others, let us copy after none, but work crease our stock if we will provide winter food for them; and as we increase our stock we can increase the quantity of manure from this source.

cious use of good commercial fertilizers --

But I would be glad if our farmers could

be convinced of the paramount importance

We can also make a wonderful change in the quality of this manure; first, by better feeding, and secondly by sheltering our stock at night. This sheltering is not difficult or expensive. If we are not able to

now makes a very poor article of lot ma-

we may bury the droppings of the cattle, and rain.

system of composting, outside of the lot and about our social system .- Balt. Gazette. stalls, except where the materials are mixed as placed together in the furrow before plantupon our forests for half rotted leaves and terrered to prevent it.

straw and rich surface earth, until all our

wants are supplied. But there is another branch of the subject to which I must refer. There are certain plants possessed of great value for fertilizing purposes. Those now used among us are, first, the cotton plant of which we use the seed and stalks, secondly the pea plant, and thirdly the weed which naturally succeeds cultivation. As to the first we need not descant upon its value; it is already appreciated. Nor is it necessary to urge its production for the purposes of manure.-We supply ourselves with the seed in our efforts to produce the staple. I will only say that every good farmer husbands his cotton seed as he does his corn, and uses all he can get for manure. But as to a pea

have here a crop unsurpassed by any other. Very rich in Nitrogen and Potash and Phosphates, a tap rooted plant, deriving a large portion of its nourishment from the air, it s admirably adapted to gathering and storing away the elements of fertility which are wanting in the soil. We have thought well of this crop as a food crop, but have not appreciated it as a means of restoring fertility to the land. I cannot too strongly press upon you the importance in this repect. Plant it; resist the entreaties of hose who advocate green manuring, and let it fully mature; then consign it to the soil. burying it well and you have applied what is more valuable than five hundred pounds of the best commercial ferlilizer with which we are familiar.

But if you cannot spare so large and so valuable a crep for manure, feed it off to hogs and even by a steady rotation of cotton, corn, small grain and peas, with the use of both home-made and commercial fertilizers

we may rapidly improve our lands. Aud now as to the weed crop, it is for hose who are willing, or perhaps are unable to undertake the expense and labor of planting and cultivating a crop solely for manure.

Rest a portion of the land, and you wil get a valuable crop sown by nature's hand and grown without man's labor.

You perceive that I have tried to be practical in this essay. I might have told you of many new theories for manure making at home, of many new plants highly recommended for improving land, but I am firm in the opinion that no plants have as yet been found adapted to this locality, which are comparable for manuring crops with the pea and the cotton plant. 313 suggestions are such that our farmers may

adopt them without any violent changes in their arrangements. They need not tear up their stakes and begin anew. I do not believe all our former practices are to be condemned. It is now quite the fashion to denounce the Southern farmer. He is called slothful improvident, unmethodical.

He is told that if a Northern man were n his position, he would show him how to be enterprising and successful. The Southeruer is said to be all wromg in his methods and his opinions, and is exhorted to imof preserving what we have at home, and itate the Northerner, or the Englishman or of improving the value, as well as of adding even the Chinese. Have you noticed whether or not these monitors, often Southern men, and farmers, are themselves eminently know. We believe the Southern farmer has done as well as any others could have done under similar circumstances. Do our a system of folding directly upon the land citizens appear to disadvantage beside any where it is to be used. These woodlands others when they occupy the same ground others when they occupy the same ground. Do they in business circles in our great cities? Do they in our armies as soldiers? Do they in our halls of Legislation as statesmen? Do they in the colleges of the land as students? If not let us stop this selfdepreciation, and with confidence in ourselves and in our God who made us the equals out our own methods and go on bravely to

"IS THIS SEAT OCCUPIED?"-An old but vigorous-looking gentleman, seemingly from the rural districts, got into a car and walked its full length without receiving an invitation to sit down. Approaching one gentleman, who had a whole bench to himbuild good stables, we can make roomy log pens and cover with pine straw, and this answers the purpose very well.

Let no farmer feel justified in going the description of the control of the production of the control abroad for his manure until he shelters his stock and makes stable manure where he prieter withdrew himself haughtily to one end, and looked insulted. After awhile the train got in motion, and still nobody came I think we will find the systematic use of to claim the seat, whereupon the deep-chesthe penning or folding plan in pleasant ted agriculturist turned and said: "Sir weather, to be the easiest and best way of when you told me this seat was occupied when you told me this seat was occupied enriching the land to the extent that this you told me a lie"-such was his plain lanplan may be practised. By this means the guage—"I never sit near a liar if I can manure is dropped just where it is required avoid it; I would rather stand up." Then for use, and by frequently plowing the land, appealing to another party, he said : "Sir may I sit next to you? You don't look and thus prevent loss from exposure to sun like a liar." We need hardly say that he got his seat, and that the original proprie-I have never seen much profit from any tor thought that there was something wrong

A Vicksburg paper says a negro magising. This method of composting we should trate in that county lately sentenced a negro resort to where cotton seed or commercial prisoner to be hanged for stealing a hog, and LAYING DOWN PERMANENT PASTURES.

ly harrowed before and after sowing. sown by hand, an experienced sower show be employed, and a still day chosen for the purpose. Whether corn (grain Ed) should or should not be sown with the grast seeds is a matter of dispute, but the most general practice. Likely it to see the trass immediately after the corn barley or wheat. Some tell as any ora crop

is sure to rob the grass, and partially to smother and hinder the growth of the finer sorts; but others, with equal confidence, maintain that the shelter afforded by the growing corn is of great use to the young seeds on strong land. Most of us would be inclined to adopt this latter view, as the value of the corn crop is an important element in the consideration of this expensive operation. Oats are thought to be better han barley or wheat for this purpose, but they should be thinly sown.

When the young grass is three or four inches above the ground it should be rolled and if sown without corn, the weak places may be mended by resowing; if sown with corn, then the resowing should be done immediately after the corn is harvested .-Much depends, of course on the choice of grass seeds, and great care a required in their selection.

Another very important element in the consideration of this subject is the quality of the soil. A good medium loamy soil is the best adapted for permanent pasture.-Where the land is too light and sandy, no proper accumulation of vegetable mould takes place round the roots of the plant, which, by a continuous underground growth, and the action of the earth worms, would annually deepen and improve its own seed bed. These conditions cannot be fulfilled in a sandy soil, which, owing to its porosity, causes a decay of the roots more rapid than their growth, and is consequently sensibly felt by the plant in dry and parching seasons. In very stiff, cold clays, on the conby the process or laying down so as to impede the growth of the roots of the plants

and the creation of rich humas by the earth worms. Both these extremes of very light and very heavy soils are unfavorable to the growth of good herbages. Let us suppose, that the grass has been properly laid down, on suitable and that has

been duly drained, cleansed and leveledstill our real work is not yet done. However promising the young grass may look, we must not take liberties with it, and suppose it will bear the depletory practice, which is resented even by old and well established pastures. Therefore I cannot agree with those who feed young grass the first winter after sowing; nor to I believe that a heavy coat of manure is suited to plants in so tender a stage of griwth. The proper course would be to grethe young layer a light top-dressing of short and well rotted manure early in the winter, which will both protect the plant from the effects of frost, and encourage its early growth in the spring. I would foll and very lightly bush-harrow the layer in March, (or when the land is in tilth in the spring .- Ed.,) and then mow it late, say at the end of June or the beginning of July, so as to allow the best sorts of grass to shed their seeds, which happens in the middle of June. It is to the future, and not the present hay stack, we must look, since any illtimed parsimony now, or any premature desire of realization. will deprive us of permanent profit for the sake of a very doubtful present advantage.

In the autuan the layer may be grazed with cattle, but not with sheep, for they bite too close, and pull up the young grass by the roots. Nor should the cattle remain on for too long a period; and any tafts of rough grass they leave should be mown. The next rows 18 inches apart. Made no special apseason will be critical and trying, as two exhaustive crops will have been taken from the land, and, therefore, a liberal coat of good farm-yard manure should be spread on our old cotton lands, the acid phosphate of the pasture as soon as the cattle are removed from it.

Above all, it is necessary; in order to keep pastures in a profitable state, not to mow it too often, unless an adequate return can be made in mature. It is not sufficiently considered that the hay crop removes more nitrogen from the land than rye, oats, barley or wheat, and that not only is no return made to the mown meadow in the shape of special manures, but the stock fed on the aftermath are often driven off at night to help to enrich the arable lands. Can we wonder that the process of deterioration should proceed so rapidly in pastures thus treated, and that the most valuable grasses

The general directions given in above article are excellent, but the difference of sea- length of row, and the expense is very fertifizers are used, on lands to king vegethat the sentence would carried by have been sons here and in England necessitates some small. A twelve year old boy with a dontable matter, and we may draw as we will, carried out if the white people had a time difference in practice. For instance, it is key is almost first class stock for the purrecommended to reseed spots where the pose.

stand is poor, in June, or as soon as the The first thing to be done in laying down arable land to grass is that the land is well cleansed, and as much a possible freed from those weeds which, if left to germinate unmolested, are likely to be troublesome for many years to come. Therefore, the year before the seeds are sown, it will be necessary to make a good summerland sowing thereupon. * * * * The seed bed should be perfectly even and fine, and lightly the arrowed before and after sowing. It is poor, in June, or as soon as the grain crop is harvested. This could not be done in our hot, dry climate—the following September would be quite as early as the young plants could venture above ground with safety. But we cannot commend too highly the advice, to let the plants seed the first year and thus correct defects in the stand; and to avoid weakening the plants by grazing or mowing, before they have become strong and fully established. Pastures are ly harrowed before and after sowing. very frequently ruined by the desire to realize from them too soon.—ED. So. CULTI-VATOR. OATS.

EDITOR SOUTHERN CULTIVATOR .- As science requires "tables," I was in hopes to nted some, setting forth the rethe past season, but a destructive drought of mearly 60 days, commencing April 13th, rendered most of them uninstructive, especially so in those instances where I hoped to demonstrate (partially) the comparative value of certain salts, applied as a top dressing in March—only only one rain, and that a slight one, falling after the application. In there cases, there was no discernible difference between natural soil, Nitrate Soda, Phosphate Lime, Chloride So-dium, and Sulphate Lime. These salts were applied separately and also in combination. It was plain that the capacity of the natural soil only was exhibited. The

variety sown was the rust proof oat. I shall

repeat this experiment the coming season,

making the application much earlier (De-

cember or January,) and hope to be more

successful. As "tables" are not essential to the practical farmer, however, I shall proceed to tell what my experiments in another direction have taught me, and I am almost dogmatic enough to defy any one to disprove my conclusions in reference to oat culture by actual test. It is not wise, however, to e dogmatic in reference to agricultural matters, for, as a rule, almost, it seems that the experience of one is disproved by that of another.

I have been a close observer and student of oat culture for several years, and the result of my observation and experience is this: That the time to sow is from September 15th to November 10th, the earlier on poorer soils-the happy medium is October 10thtrary, there is an absence of all porosity in October 15th to November 10th. That a is the best soil for oats, but that they can be profitably grown on any soil, if judiciously manured. That the phosphate lime is the special manure for oats, where they follow cotton or peas, and especially so ou clay soils. That the manure should be drilled in with the seed. That the seed should be put uniformly 31 to 5 inches deep; that on all but very rich friable soils drilling at 18

inches and cultivation increases the yield under like circumstances of manuring, 50 to 75 per cent. These, Mr. Editor, are the maxims I hold in reference to oat culture, and I can confi-dently recommend them. Many are agreed as to the proper time for sowing, but a very opinion that February is the time to sow oats, and yet they admit that they rarela make really profitable crops. Let them once understand that October sown oats, put uniformly 4 inches deep, and that have a good hold on the soil by the 15th Nov. are not endangered in the least once in 10 years, yea 20, in this climate, and they will see their way clear to profitable oat growing .-

bors, who came frequently to examine and admire, can testify. At the lowest calculation, made 40 bushels on rather poor sandy land, and but for the drought would certainly have made 60. The oats were sown in cotton in October, siding the cotton with a shovel and sowing seed in furrow. Covered by breaking out the middle with a scooter. Tue cotton had been picked over twice. In January the stalks were beaten down, and the oats cultivated 3 times afterwards. The coton rows were 3 feet spart, and the cotton was so sided as to make oat plication of manure to the oats, but the cotton had been manured. This is a good way to work oats, for it is economical. On lime is the only fertilizer needed to make magnificent crops. It should be applied in the furrow with the seed, from 2 to 4 hundred pounds per acre. It is with oats as with cotton, too much nitrogen to be guarded against. Twenty to forty bushels cotton seed, however, may be applied with

Notwithstanding the unpropitious season

I made a fine crop this year, as my neigh-

necessary after cotton or peas. As drilling and cultivating oats is not my invention I have no personal theorizing at stake in the matter, but I give my experience. There are numerous occasions, no doubt, when it will be found more profitable to sow broad cast and reap less, but as a begin to die out .- Rev. C. T. CORRANCE, rule the "intensive" farmer will gain by adopting the drill. From 4 to 6 acres can be cultivated in a day, depending on the

profit, in addition to phosphate, but, as I remarked before, such application is not

One more remark and I am done. In this section for several years we have been able to buy from one and a half to two bushels of corn with one of oats, in the months of October and November, the period when corn is harvested and oats in demand for seed. Now, as it is a well deter-mined fact that the yield of oats is three times greater than corn, (in respect to bushels) on same soil, even when oats are broadcasted, here is 45 to 60 bushels corn from ordinary soil. To what extent this is the case in other sections of the State, and how long it may continue to be the case here, of course I do not know, but it is reasonble to expect that for many years yet a bushel of oats will purchase one bushel of corn. This ought to encourage us to surest crop that we can plant, and it is to be hoped that the advice of the "Southern Cultivator" will not go unheeded this fall.

"STICK TO DAD."-A farmer's son writes us the following: "I am tired of farming and want to come to town to make a living for myself. What do you think of it?' Well, we think you are a fool if you

don't stay at home. The city is overrun with 'dead beats' and tramps, and if you have a dead sure thing of making "bread and meat" on the farm, you'd better stay where you are, and dig potatoes, than come here and go to the Workhouse and peck rock. Stick to dad. Stay on the farm .-You are worth more to yourself, to your neighbors, to your State and the country at large than all the one-horse mutton head professional gentlemen that are living from hand to mouth in this city or State. You stick to the plow, the mower, the reaper, freeze to that farm like a fly blister to a negroe's lip, raise rye, corn, hay, barley, oats, potatees; chop wood, maul rails, burn brush, curry your mules, feed oxen, raise stock, and instead of hanging around the street corners dependent upon lunch houses to keep sand out of your craw, you'll be at home on your farm, living a life of "independent happiness," while thousands of "nice young men," too pretty and proud to work, and too lazy to steal, will be lighting out "over the hill to the poor house," merciless beasts and lazy subjects of utter dependence upon public charity. Young man, if you know which side of the bread of life the butter ing to Louisville to "make a living for yourself," 25 acres of band and a chaplike you to till it, is worth more to the county than the bank in this city and the smartest capitalist we know of to run it .-You stay where you are. Follow the plow, and engineer the docile, willing mule that pulls it. Our word for it any young, healthy, stout farmer's boy who will give up his chances for "a dead sure thing inlife" and come to town on an uncertainty is not smart enough to take care of himself, and should be arrested and sent to a lunatic asylum for a darned fool. Stay where you are, - Lauisville Courier-Jour-

FOUR SOUTH CAROLINA WIDOWS .- At Prosperity, a station on the Greenville and Columbia sailsead, there dwell in reason of the sound of the whistle, four widows whose names and deeds should be printed in letters of gold. We shall tell of them-to spare blushes-first.

No. 1. This lady-as, in fact, all the others-lost her husband during the war and was left in straightened circumstances. Did she sit down and grieve at her fate? By no means. She has raised four children, besides fine crops, and to day she has much of last year's cotton and flour on hand, isfree from debt and is able to pay cash down for what she wants.

No. 2 looks complacently on all of her last crop of cotton, and with a sense of perfeet rest and absolute fullness on 3,000 pounds of flour, neither of which she has sold because she has no use for the money -here's a widow for you. The only thing which disturbs her rest now is what to de with her new fodder, every place being, filled, with the old. She might dispose of some of it to the Editor of the Herald, who has been standing to the rack for years, fodder or no fodder. She, too, like a true woman, has raised children and set them up under their own vines and fig trees.

No. 3 struggled through the years which have rolled on since the late unpleasantness, raised six children, given each at majority \$500 in cash. Last year she bought a tract of land, for which \$1,400 in good money was paid. Has corn, fodder and other things in abundance.

No. 4, like unto the others, has made a splendid fight and brought up a large family in the way they should go, has of last year's crops abundance, pays cash in trade and loans her earnings out on interest.

Curculios may best be fought by inclosing the plum or other fruit trees infestedcherries, peaches, etc .- with a chicken yard fence, and colonizing a flock of chickens within. Then, after the fruit is set, by a slight shaking of the trees every morning, while the insects are still inactive, they will drop off and become an easy prey to their ready enemies beneath.