## Better Farming Talks.

## FUNDAMENTAL THINGS IN PROFITABLE CROP PRODUGTION.

## Soll Conservation and Soll Building; Crop Fotations With Wip: ter and Sunmer Legumes; Good Beed, Good Preparation and Caltivation.

rI were asked to name the one cal means of increasing sotl fertil greatest obstacle to greater farm Ity; but it is mot true that a man eanSouth, I weold wninesitating in the to the low per are provingty point taple crops. Just so long as we conthare to average less than 20 bushels of oatie and corn to the acre and onethird of a kale of cotton, we mist ex pect the rural South to remain com paratively poor and backward in the introduction of the better things tha make farm life worth while. For it takes money to buitd good homes, schools and churches and to educate ehildrens and money in sufficient quantity to do these things canno possibly come to the farmer who doe not Ilse above the average in erop production.

Ifial raistug our yields to a polnt a which a reasonable preft may be made, a rich, prodactive soll is the first and most important essential I have seen ignorant Negroes make a bale of eotton per acre on rich Mis sissippi Delta land, merely by leep ing the exop free from grass and weeds; but a highly trained, veally good farmer whil fail to malke profita ble ciops on a gullied hillside, deveid of himmus. Good cultural methods are of great importance, but unles. applied on homus-filted, fertile soils they are not of themselves insurance against poor yields.

Not only must our lands, it they are to produce good crops, be made fertile, but they must be kept so. Consequently soil bailding and soil conservation are two of our main probiems in tncreasing yields.

## Soil Conservation.

TET us consider the latter first. $\checkmark$ The average Southern farmer for generations has played the robber, taking from his land more than he gave it. Not only this, but he has alded and abetted the elements in stripping our hillsides, leaving them eye-mores and worthless until nature, disgusted with his bad management, has taken the land and the problem out of his hands, gradually to restore the farm's wasted fertility.
In the South Atlantic and Gulf States, on the more rolling lands, it is an error to assume that deep plowing, hamus and wiater cover crops, valuable as they are, will entirely prevent erosion. They will ald, of course, but with them must go a system of carefully constructed terraces. Most farm lands in the South have been terraced after a fashion, but in so careless a manner has this been done that in most cases it has been of little heip in preventing erosion. A properly construeted terrace should be fald off with a fall of from four to six inches to the hundred feet and, beginning at the center, a broad bed, one and onie-half feet high and from 1s to 20 feet in width, should be plowed up. Rows should then be lata off en top of and parallef to this terrace. In this way there need not be a foot of waste land in the field and erosion is entirely prevented. The old-fashioned, "razor-back" terrace should forthwith be relegated to the agrieultural "dark ages"

## Soil Building.

VHEN we have so terraced our 1. hill lands that losses from waslins have been reduced to a minfmum, Our Fivestock aithorites tell us, most of them, that livestock are indisperof them, that livestock are indisper-
sable if we are to lare rich soils. I agree with them that farm antmals, by consuming our surplus feeds and neturning the manure to the fand, probably atiord us the mogt economi. not have rich land without lifestock. Such an assumption is fncorrèct and misleadigg, as has been widely proved by the success of winter and summer soil-improving crops throughout the South. We know now that a good crop of crimson or bur clover plowed under on land that has averaged 15 bushels of corn to the acre, will double the yield in one year, and at only a nominal cost. If I were one thing that would, most economiper acre production of corn in a single year, I would say plant crimson clover next fall on every acre of land that is to go in corn the following spring. The amount of humus and nitrogen the supplied supplan an with with some acid phosphate, and pos sibly potash, will work an amazing change in the soil's producing power.
We have been told that humns makes cold land warm, wet land dry and droutiny lands moist. It does all these, and in addition is the key that unlocks the vast stoves of un available plant food in the soil, clos ed by a wise wature against improvident, despoilling soil robbers. Chemteal analyses show that in the average Southern soil there are sufficient plant food elements for humdreds of veara of cropping provided ther years of cropping, provided they were vear buying expensive fertitivers, by trogen particularly, at high prices.

These are serious defects that must be remedied if our agricultural sys tem is to be put on a sound, profita ble basis. What are the remedies? Tons and tons of atmospheric nitro gen, worth thousands of dollars, he above every acre of our land. Bur and erimson clover, lespedeza, cowpeas and soy and velvet beans have the wonderful power of capturing this nitrogen and storing it in the soil for smbsecuent erops. Few nther sections are so matmilly favored with ex cellent soll-bullding crops as are the Sonthern States Theit presenes und siaptabiluty mate om adaplaitle al acy; but we are only fust beginaing to find ousselves.

## Crop Rotations.

PHE production of the legnminous: or crops must be made a means rather than an end-the means by whieh we are to enrich our soils, comble our
corn and cotton vields, and matce piog. sible the profttable preduction of live-


ORIMEON CLOVER AND LVESTOCK MAKE RICH LAND.
cally, come nearest to doubling our October; fourth year, back to corn ton in the fall and peas sown in the corn will undoubtedly build up soil fertility rapidly, if supplemented with phosphoric acid and possibly some potash in certain sections. The main essential in crop rotations is to grow every year, if possible, a soll-improving crop, such as peas, beans, or clovers.

## Proper Use of Fertilizers.

0NCE a good rotation is establish ed the matter of fertilization be of thes easy. For instance, in either of the suggested rotations the necessity for expensive commercial nitro gen is eliminated, leaving only phosphoric acid and potash to be supplied. As a rule the Piedmont regions and the territory from West Alabama westward need no. potash except for special fruit and truck crops, thus further simplifying the problem; and finally, when our sofls are filled with thumus from legumes and manures, phosphoric acid may be purchased in the form of finely ground rock or floats, at a cost per unit of about one fourth the present price. The annual commercial fertilizer bill of the South is about $\$ 100,000,000$, and it is safe to say that a large proportion of this expenditure is for nftrogen, an element that is easily and cheaply sup. plied by leguminous crops.

## Good Tillige.

COOD preparation and thorough $G$ cultivation are likewise essential if maximum crops are to be produced oconomically. Our lands must be deeply and well broken, and clods must be pulverized if the maximum (Continined on page 25.)
stock overywhere in the South Un-
fer present conditions a registered beet or dairy animal brought from a from ticks, is too often condemned to a lingering death from starvation ou pastures that are such in name only. Good crops of cattle and hogs, like good crops of corn; are only made on good land We must learn to combine our staple crops with our soilbine our staple crops with our soilimproving crops, winter and sum and with livestock in guch a way that yields increased.

Many eropping combinations are possible and the merits of each have their advocates. Which rotation system shaf be used must largely be determined by local conditions. For the average Southern farmer who makes cotton his only, cash crop, we would suggest the following:

First year, carn and peas; second year, oats and peas or oats and lespedeza, with erimson clover sown in the fall; third year, cotton, with crimson clover sown in September or

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