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## HOW TO GET RICH LANDS xxv-Ccop Reidues ar Remand ind Their tmportance in Maia. taining Soll Fortility By TAIT RUTLER

W$T$ HEN properly used; crop residues or remains, with lime, phosphorus, and sometimes potassium added, must be the chief
means of maintaining soil fertility in a sound economic or permanent agriculture.
Crop residues are those parts of the crops left on the farm after the marketable parts or products are sold or removed from the farm. What these crop remains are will depend largely on the cropping system and the type of farming followed. For instance, if the crop be used for grazing or a pasture, the crop residue will be the entire crop except those parts destroyed or retained by the animals. But here again the proportion of the crops removed by the ani mals will depend on the kind of livestock grazed. With beef cattle or hogs, therewill be a smaller part of the crops removed when the animals tre sodd or nemoved from the farm than when dairy cattle are grazed and whole milk is sold.

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Different cropping systems, the andling of stable manure, and the use of legumes and green manure crops in soil building will be discurs in future articles. In this article we propose dealing merely with those he residues left on the land after hary common crops of the South are harvested and sold from the farm. talk are chiefly cotton stalk, corn roots.
Cotton stalks are usually burned or under. Their value as source of humus and nitrogen has not been appreciated or they would neyer have been burned. Some little effort has been made to find a commercial use for cotton stalks, and in the bon weevil sections they have been oceasionally used for livestock feed. A commercial use which only pays a small margin above the cost of gathering and marketing would be a catamity to Southern agriculture Any use for our cotton stalks which does not pay a good price above their humus-making and plant food values in addition to the cost gathering and marketing would be to the disadvantage of the Southen farmer if it came before he learn to appreciate more fully the larned sity of putting back on the soces plant full s on the stantly supplying organic matter a a source of nitrogen and humus.

Cottan Stulks Ane Valuable
 their humas-forming value and all the atitregen they contain are lost or textreyed.
值 may the estimated that a crop whelcostetds 250 pounds of lint cotton wilthave enomed 1200 to 1,500 pound of air-dry material in the stalks, leaves, etc. These leaves and stalks will contain from 25 to 35 pounds of nitrogen. This nitrogen is worth from $\$ 5$ to $\$ 8$, and is entirely lost by being driven off into the air by burning. To this loss of nitrogen must be added the organic or humus-forming matter which is so much needed in our lands that have been cultivated in cotton for long periods.

Corn is the next crop to cotton in the acreage grown in the Cotton Belt With an average yield of less than 20 bushels per acre, the weight of stove or stalks and leaves is not much un der one ton or $2 ; 000$ pounds per acre This conn stover is often burned and when this is done about 2 pounds of nitrogen is lost into the air and the humus-forming material is destroyed. It seems incredible that such a farm practice as burning cotton and corn stalks could possibly exist; but the fact remains that these materials and many others are burned every year in the South and frequently on lands needing organic matter and nitrogen more than all else for the production of better yields.

Also when-the whole corn plant above ground is harvested eher silage or as dry forage the humus forming value of the stalks and the nitrogen they contain are lost to the land if this forage is sold from the farm but when fed on the farm farm, but when fed on the fertilizer and houmus-forming values of the stalks. humus-torming values of thed to the and leaves may be returre is handled with reasonable care.
On the corn fields of the South considerable quartities of other or ganic materials in the form of grown and weeds are also frequently grown and later destroyed by fire.
It is not the purpose of this article to discuss whether the corn 3 ) (Concluded on page 18 , column 3)

