FARMING 600D

FUNDAMENTAL PRINCIPLES arises.

Fall Breaking of Land and the Preparation of the Seed Bed-The First Stept In the Betterment of Farm Life.

United States Dept. of Agriculture. Farmers' Co-operative Demons tration Work.

Unon the inauguration of the Farmers' Cooperative Demonstration Work in the Southern States it was found necessary to outline some of the fundamental principles of good farming and to insist that the tillers of the soil should become familiar with them and practice them as a first step in the betterment of farm

(1) Prepare a deep and thoroughly pulverized seed bed, well drained, break in the fall to a depth of 8, 10, or 12 inches, according to the soil, with implements that will not bring too much of the subsoil to the surface. (The foregoing depths should be reached gradually if the field is broken with an ordinary turning plow. If a disc plow is used, it is safe to break to the above depths at once.)

(2) Use seed of the best variety, intelligently selected and carefully stored.

(3) In cultivated crops give soil, and the climate.

crop on southern farms.

day by using more horse power more air and heat down to them for this is increased storage caand better implements.

(9) Produce all the food re- a greater depth. on the farm.

(10) Keep an account of each farm product, in order to know from which the gain or loss

PREPARATION OF THE SEED BED.

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It is the purpose of the Farmers' Cooperative Demonstration Work to insist upon such preparation of the soil as will furnish ife. These principles are as folroots and such as will provide at all times plenty of moisture and food for the growing plants. It it better to secure 10 or 12 inches than to go deeper at the expense of less thorough preparation.

> The presence of heat, air, and moisture is essential to chemical and germ action in the preparation of plant food in the soil. The depths to which these penetrate the soil in the South depends upon the depth of the plowing, provided the soil is well drained. There is no use in plowing down into a subsoil full of water.

It has been proved without it indicates that there is too rows and the plants in the rows question that the roots of plants much water in the soil or subsoil. a space suited to the plant, the penetrate the soil deeper and The capacity of a given soil to feed deeper in deeply plowed hold film and capillary moisture (4) Use intensive tillage dur-land. Thus, in general, it may depends upon how finely it is ing the growing period of the be stated that when the soil is pulverized and upon the amount plowed 3 inches deep the plants of humus in it. Unplowed lands (5) Secure a high content of have 3 inches of food, when retain but little water. Thorhumus in the soil by the use of plowed 6 inches deep they have 6 oughly pulverized soil 3 inches legumes, barnyard manure, farm inches of food, and when plowed deep can not store enough to the soil, which, even with the rerefuse, and commercial fertili- 10 inches deep they have 10 in- make a good crop. ches of food. The fact that the In all Southern States there (6) Carry out a systematic bottom portions of the plowed are every year periods of drought, crop rotation with a winter cover land are not as rich in available sometimes not serious, but genplant food as the top portions erally sufficiently protracted to (7) Accomplish more work in a shows the necessity of getting reduce the crop. The remedy by deeper tillage.

(8) Increase the farm stock to The soil requirements most es- accomplished by deep and thorthe extent of utilizing all the sential to the growth of plants ough tillage and by filling the

must be in the soil a constant greatly the storage capacity of

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ches deep. If there is standing tion twice as rapidly. water in the bottom of the hole,

pacity for moisture. This can be

waste products and idle lands of are heat and moisture. Deep soil with humus (partly decayed breaking insures air and heat at vegetation.) The effect of deep are the principal cause of the low tillage has been explained. The quired for the men and animals For plants to do their best there effect of humus is to increase

of well drained, thoroughly pul- supply of moisture, so that a film soils for water and to reduce verized soil filled with humus of water can envelop the soil par- evaporation. A pound of humus ticles and absorb nutritive ele- will store seven and one-half Notice of Tax Round and Public Speaking ments. The hair roots of plants times as much moisture as a drink this for nourishment. If pound of sand, and the sand will there is any more than enough lose its water by evaporation to serve as films for the soil par- three and one-half times more ticles and capillary water, there rapidly than the humus. A clay is too much, and it should be soil will store only about onedrained off. This can be deter- fourth as much moisture as humined by digging a hole 20 in- mus, and will lose it by evapora-

> ches of water. About three- 1489 5 oct fourths of this amount will be required during the last 75 days of its growth, or at the rate of 3 inches of water a month. This is in addition to evaporation from tarding influence of the dust mulch, will amount to several inches each month in midsummer. In case the land is plowed only 3 or 4 inches deep, though thoroughly pulverized, it will store an amount of moisture entirely insufficient to supply crop requirements in any protracted drought. These shallow and generally poorly prepared seed beds corn yields in the South, and they effect the cotton yields similarly but not so much, because cotton is a more drought-resistant plant than corn. If planting is done at all, it is folly to pre- in pare a seed bed so shallow as to bring about the almost total loss of the crop some years and a reduced crop every year.

> Many farmers plow or cultivate their corn nearly as deeply as they break their land in preparing a seed bed; this leaves no space for roots in the pulverized
>
> TRACT NO. 4—This is a choice fr ct, has two country r ads rounding he has some fine onk an strovet pine, the land lays set to farm onk as spring wate, and the shape of he tract solving. The western boundary is Big trushed the land on the land crosses. A file mill site is on this and the land on the land on the land of the land on the land of the land of the land on the land of the lan and aired soil. Roots occupy a large space. If all the roots of a single vigorous cornstalk were placed end to end they would reach more than a mile, and if allowed by the plowing they will fill the soil to a considerable depth and feed in all portions of it. In the principal corn-producing areas of the South the annual rainfall is 35 inches or Coleridge, N. C., Sept. 1st, 1910. more, and here in a soil properly prepared for corn the great body of the roots will lie from 3 to 12 inches from the surface and will feed within 2 inches of the surface if allowed by shallow cultivation.

THE ROOT SYSTEM OF CORN. At the Wisconsin Agricultural Experiment Station it was found

(Continued next week.)

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Plants use an enormous quantity of water. An acre of good corn will absorb and evaporate during its growth nearly 10 in
Walnut Cove.
Plue Hall.
Danbury.
Saturday.
Monday.
Tuesday.
Ved.
The county candidates will be at the above places and will address the people on the political issues. I pay your taxes and hear the county candidates.
This the 12th day of September, 1910.

C. Monday.

Thursday.

Thurs Chursday,

BIG AUCTION SALE OF LAND!

SATURDAY, OCTOBER 1, 1910.

stand good for the balance due. This sale will postively Juo. R. Caveness, on the premises of this land Saturd clock. This land is termiles south-west from Siler City, ght miles west from Ore Hill, four miles south-east from ennett, N. C., the new railroad station on the Bonlee & Wlerk. When this road is extended from Bennett, to Color leave, when this road is extended from Bennett, to Color.

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