Article by P. J. Redding, o' Georgia, Who is Now appear, and at his los enlitation compose should be soon bendens. Conducting Farmers Institutes in North Carolina.

same direction and superintendence, on the same farm. It is reasonable on the same farm. It is reasonable to expect that some definite conclusions have been reached that should be of practical value to the farmer. The above statement, in substance, was made in Rielletia No. 45, issued in November, 1899 and certain each old aplands. The best proportions in November, 1899 and certain each old aplands. The best proportions in November, 1899 and certain each old aplands. The best proportions in November, 1899 and certain each old aplands. The best proportions of the three elements for each of softial particular in the lad of "Ten Years of Experiments in Coun Cuit. It is better for the farmer to be a substance of the country of the ingredients and do bis even may of their practices of the ingredients and do bis even may of the story. The resulting ments—many of their repetitions of former work—laye constant of the ingredients and do his even man former work—laye constant of the layer. The following is a good former that was choiced at the date of that building and the results of new (x). Acti phosphate (14 per cont. Available phosphate) buildin, and it. results of new (x) perimer'ts have juscified some additions to the suggestions and coachi sions to refer set forth. The following, therefore, is largely a reprint of the article referred to, but containing a few amendments and additions.

Acid phosphate (14 per cent. Axnii and extrle, and the yield from the print of the suggestions and coachi able)

Cotten meal

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The absence of the containing a few amendments and additions.

Solts and Preparation.

Character of Soil .- The best soil for corn is most bottom land. On uplands the red or chocolate colored soils, with red clay subsoils are butter for corn than the gray soils with yellow clay subroils. But it is adyellow day subvoits. But it is advisable, repecially on uplands, to adopt a system of rotation, and therefore it is not often practicable to locate the entire corn crop on a particular character of soit. As a rule, corn should follow cotton in the rotation. the rotation.

Preparation.-Thorough breaking Preparation.—Thorough breaking with a two-horse turn-plow, graduality increasing the depth every year. Eight inches deep is considered good plowing. If there is much grass, weeds and other litter on the surface it is advisable to plow under in October or November. If the land is clean (as cotton stubble) plowing may be deferred until January and February. After plowing, the surface should be well harrowed, and repeated at intervals until the surface is fine and smooth. ce is fine and smooth.

Subsoiling-Repeated experiments in subsoiling the soils of the Station Farm indicate that the results in in crease of yield do not pay for the in-creased expense of the operation.

Photing.—Very early planting is not advised. In Middle Georgia, as a rule, March 15 to 20 is early artic, March 15 to 20 is early enough for the earliest plantings. Indeed there are good reasons to believe that corn planted a month or six weeks later—late enough to escape the "bud worm" and to silk and tassel the latter part of July—would, as a rule, prove more productive.

Distance.—On uplands capable of producing, of a good year, 25 to 40 bushels of shelled corn per acre, and when planting ordinary field varie-ties common in the South, there should be about 3,630 plants to the acre. This number would be se-cured by planting in rows 4 1-2 feet wide and spacing the plants 32 inches apart; or 4 feet by 36 inches; or 3 1-2 feet.

or 3 1-2 feet by 3 1-2 feet.

If the soil is of a capacity to produce from 15 to 25 bushels greater distance should be given, say 16 square feet to the plant, or 2,722 plants to the acre. This number would be secured by spacing the was and hills 5 feet by 38 1-2 faches; or 4 1-2 feet by 32 inches; or preferably, 4 feet by 4 feet.

Aches; or 4 1-2 feet by 32 inches; or preferably, 4 feet by 4 feet.

On soils of still less capacity, say from 10 to 15 bushels per acre, the distance should be still greater, say 18 to 24 square feet to the stalk, or from 2,420 to 1,815 hills to the acre. Eighteen square feet to the stalk would be secured by spacing 6 feet by 36 inches; or 5 feet by 43 inches; or 4 feet 3 inches by 4 feet 3 inches, or 4 feet 3 inches by 4 feet 3 inches and 10 bushels per acre, with good seasons and very light manuring, is not fit to plant in corn.

Spacing.—For the largest yields

the plants should be as nearly "on a square" as may be convenient. Corn planted 4 by 4 will deld more than if the same soil be planted 5 feet by 38.4 inches—the number of plants per acre being the same in each case. But the narrower the rows the greater will be the cost of cultivation. Hence, on more productive uplands the rows should not be closur than 4 feet, or thereabouts.

| Crushed, to corn, if the same may be exchanged for cotton meal on a reasonable basis. As a fertilizer 800 to 900 pounds of cotton meal are the equivalent of a full ton of cotton seed, the two substances in the amounts named containing practically equal amounts of phosphoric soid, nitrogen and potash. The cotton seed hulls are worth two to three times as much for castle dige.

ing in loss of yield. Varieties.—As a rule it is advisable to secure seed corn every few years from a higher altitude and latitude, not farther north than lati-tude 36 or 38. Seed corn from

For seventeen consecutive years is being the very solo," have manufithe experiments in corn ordince at Iv given as good results at grains this Station have been under the from the resolit or from the butts. Pretittates.

Available Phosphorie 7.58 per cent. Nitro. (Am., 4.80) 3.76 per cent. Potash (K O) 1.50 per cent.

The proportion is about the same s 10:5:2. Instead of the muriate of potash, 4 times as much kainit may be substituted.

Instead of the cotton meal, 2 1-2 times its weight of whole or crushed cotton seed may be substituted, or 1 1-4 times as much cotton seed ker-

Stable manure may be mixed with the above formula in equal or greater quantity; the amount would not

On new lands or bottom lands, the cotton meal may be reduced and the potash greatly reduced or

left out entirely.

Heavy Manuring.—Owing to the uncertain outcome of a corn crop on dry uplands, and to other causes not well understood, it does not pay to fertilize corn very liberally. Three hundred pounds to the acre of the formula above given, or an amount that would contain about 150 pounds of acid phosphate to the acre, is about the maximum

amount that would be safe to apply.

Composting.—No great advantage results from composting stable manure, cotton seed, acid phosphate, manure, cotton seed, acid phosphate, etc., several weeks in advance of applying to the soil, in comparison with applying the same material, directly in the furrows and bedding

Applying Manures.—All coarse manures should be applied as long before planting as may be practica-ble. Broadcast manuring, unless of large applications of coarse ma-terial, does not give as good results terial, does not give as good results as applying in the planting furrow, or the bedded furrow. After the land has been well plowed and harrowed as already described, lay off the rows the desired width, from one to two weeks before planting time, distribute the fertilizer along in the opening furrows and mix it with the soil by running a narrow, long plow in the furrow, and list on the furrow.

Nitrating.—Very good results

he farrow.

Nitrating.—Very good results have followed the application of 15 to 20 pounds per acre of nitrate of sods, dropped within a few inches of the plant seed at time of planting, and the practice is recommended.

Intercultural Applications

and the practice is recommended.

Intercultural Applications.—
There is no material advantage in dividing the fertilizer into two or more doses, one before planting, one at planting, and one or more at intervals during the cultivation. Nitrate of soda should never be applied before planting and one or two slight doses may be profitably applied during cultivation, say 25 to 50 pounds per acre at a time, but not later than June 20.

Cotton Seed as a Manure.—Re-

feet, or thereabouts.

Fancy Planting.--Double rows and other similar plans of spacing the plants, must be considered as fancing and of no advantage but results.

The oil contained in the seed is of no value as a fertilizer and is an ovalue as a fertilizer and is an ovalue. ful, and of no advantage, but result-ing in loss of yield. Experiments No. 2 and 3 in this bulletin.)

CULTIVATION.

It is a good practice to broadcast

not greater then to days, using a shallow, wide specialing environat the rate of 2 o 3 pec is per hore.

that bering. Pulling data. As a rule, pulling off the blacks shees not seriously injure the corn, if not done too early; but it is a laborious processed should be discontinued. Pull-

or to the following is a good form of the following is a stable food for holes, mules

Sudden Deaths.



Sudden Deaths.

There is a disease prevailing in this country most dangerous because so deceptive. Many sudden deaths are caused by it—heart disease, pneumonia, heart failure or apopleay are often the result of kidney disease. If kidney trouble is allowed to deaths are caused the translation of the bladder, or the kidneys themselves break down and waste away cell by cell. Bladder troubles almost always result from a derangement of the kidneys and a cure is obtained unickest by a proper freatment of the kidneys. If you are feeling badly you can make no mistake by taking Dr. Kilmer's Swamp-Root, the great kidney, liver and bladder remedy. It corrects inability to hold urine and scalding pain in passing it, and overcomes that unpleasant accessity of being compelled to go often through the day, and to get up many times during the might. The mild and the extraordinary effect of Swamp-Root is soon realized. It stands the highest for its wonderful curses of the most distressing causes.

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Senator Overman and Education.

Elsewhere in this i sue will be found a personal letter from Senator Lee S. Overman. He rings clear on the subject of education and is not afraid to let his voice be heard, not on both sides of the question, but one side and that the side of the children.

It is a glorious day for the children of our commonwealth when the Uni-ted States Senators, Governors, and Ex Governors go into the highways and hedges and plead the cause of

the children.

We say hurrah for Senator Overman. He is good enough to succeed himself in the United States Senate. -Catawba News.

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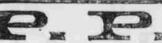
Carrie Nation, the nation's saloon smasher, carry the thought in your A soil that would produce less than 10 bushels per acre, with good seasons and very light manuring, is not fit to plant in corn.

Spacing.—For the largest yields the plants should be as nearly "on a square" as may be convenient. Corn be exchanged for cotton meal on a square" as may be convenient.

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Robert Murdock, a stall keeper in the city market at Asheville, shot Mrs. Laura Ray, the propriet-oress of the Success Inn, and then shot himself. Both were dead in five minutes. Jealousy and whiskey are the cause.

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