The Polk County News the fine particles of soil just as Published every Thursday. Entered at the Post office at Columbus N. C., as second class matter. One year \$1.00 Six months50 Three months Subscriptions must be paid in advance. Advertising rates furnished on appli sation Make all checks, drafts, and money or ders payable to THE POLK COUNTY NEWS, Columbus, N. C.

COLUMBUS, N. C., SEPT. 7. 1911.

Necessity of Grganic Matter In the Soil. No. 4.

SOURING THE LAND.

came to me and said: "Last spring | below the surface of the soil. Let I plowed under a heavy crop of the lamp burn and let the sun crimson clover, planted my corn shine on the soil and see what and got nothing. My land was happens. You have found that soured and my crop was killed." Another said he had plowed un- place in the wick and your lamp der a heavy crop of peavines late has gone out while there was an in the summer, sowed wheat, and abundance of oil in the bowl. You and the wheat failed to germin- ches of soil above the board is dry ate. Still another said he plowed as dust while that is quite moist [Thank you. - N.M.] under a heavy crop of vines and under the board. Why? Because of men who by their own practi- | six inches of soil above it. use of green manure positively ly everything. The phenomenon Horses, Cows, does sour the land and renders it called the "souring of the soil" infertile for a long time. Now, if is nearly always based on the one is out for a difficult job, just principles outlined above. Instead and let him attempt to dissuade these of using the board let us plow men from the belief that their under a six or eight ton crop of land has been soured by the use green clover or cowpeas, eight or of green manure. They stick to ten inches deep. Let this mass of the old idea as tenaciously as to vegetation lie during the month For Sale their right arms. They feel that of August, say, then examine it their theory is based on practical after a hot, dry period of ten experience (and what is better in days or two weeks and see what In the the substantiation of any theory has occurred. You might use than practical experience? Noth- some blue litmus paper and test ing, to be sure). Now, we have all had experi- able amount of acid present you ences. We know that certain ef- will get a red color in the litmus NEWS fects follow certain causes. Moreover, we instinctively assign some cause for every effect. Frequently without taking the trouble to investigate the fact on which our above the mass of vines. Your conclusions are based. Admitting litmus paper will not likely be that all facts are covered by some colored at all because you are nottheory, one should always check likely to find any acid but you and foreign, than any other North Carolina his theory by his facts and strive to bring his facts in line with the correct theory. We often sustain loss by assigning the wrong cause to an observed effect. The farmers referred to above ation of the "souring" effect of plowed the green manure under, planted the crop and received no return. There was some cause, to be sure, for the failure of the crop. Some one guessed the green stuff soured the soil and further investigation was generally thought useless. Some advised the use of lime to correct this acid condition. Few farmers, however, were disposed to buy enough lime North Carolinians. to correct the large amount of acid they could imagine would be developed in the decay of so large an amount of green manure plowed under. The result was that News Job Printing Departthey did not use the green manure, fearing the detrimental eifects on the soil, and the land has remained poor for lack of humus to this day.

the oil climbs the wick, and continues to climb until it reaches the surface where it is dried up by the sun just as the oil is burned away by the flame. This is called capillary water. This capillary water continues to rise to the surface of the soil until every

drop is taken out of the subsoil and dispensed into the air as vapor. No farmer would hope to grow |ing."

a crop with the water in the first six inches of soil only. He expects the moisture to rise to the surface from depths ranging from three to five feet below.

Now, let us cut the lamp wick in two and let the two pieces come within 1-16th inch of each other. At the same time we will

On one occasion a good farmer put a wide thin board six inches your oil did not rise above the cut

weeds which rendered the soil so the air space cut off the rise of acid he was unable to grow a crop | oil in the wick and the solid board for three or four years afterward. | cut off the rise of moisture from | We could give a long list of names the great reservoir below to the cal experience have proven to But what has this to do with *Iour* themselves conclusively that the 'the 'souring of the land.'' Near-

BRIFFS FROM MELVIN HILL.

Correspondence of The News. A few of the people here have started to pick cotton.

There was quite an electric storm here Sunday.

Melvin Hill is listening for a wedding sometime this week.'

Preaching here next Saturday and Sunday, at 11 a.m. Also Sunday night, at "early candle light-

Messrs. Pink and Pervey Stacy of Cooley Springs were the guests

of Mr. J. W. Stacy Sunday. Tommy Peterson, who has been in the hospital for some time, arrived home Saturday, all O. K.

The Misses Cantrell of Henrietta were the guests of the Misses Head Saturday and Sunday. Mr. and Mrs. George Branscom, and Dr. Head, who attended district meetings in Allegheny county arrived home Thursday

and report a pleasant trip. Dull times for the young folks. They have to go to work again, pulling fodder and picking cotgot no stand. The land soured have found also that the six in- ton, -and, oh, how they dread it !! Good luck to the News man!

GRETCHEN.

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Now, what really happens when a heavy crop of green manure is turned into the land? In order to make the explanation clear we will have to bring to our aid a few terms and fundamental principles of physics but these are simple and easily understood. Fill a lamp full of oil, put the wick in it and note what happens. The oil begins to rise in the wick and finally reaches the top. The oil will continue to rise in the wick till every drop is taken out of the bowl of the lamp. The oil in the lamp bowl is called gravitation oil; that in the wick is called capillary oil. The rain falls on the land and gravitation pulls it down several feet below the surface. This is called gravitation water. When the sun shines this same water begins to climb up between

for acid. If there is an appreci-

paper but be sure to tear up the vines and examine the soil just below, also examine carefully the THE CHARLOTTE OBSERVER eight or ten inches of soil just will find the soil just below, the newspaper. vines as wet as mud, perhaps, while the eight or ten inches on top of the vines will be as dry as dust, Here you have the explan-

green manure on well drained lands.

(To be continued.)

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