

# Agricultural Department.

## Subsoiling.

### Why It Helps and the Kinds of Land It Does Not Help.

From Progressive Farmer:

Messrs. Editors: As the season for subsoiling and preparing land for the crop of 1906 is fast approaching, it would be well for us to begin to think of it.

#### WARMING THE LAND.

Why do we subsoil?

First, to admit the air, which takes with it the oxygen, the supporter of combustion, generator of heat, and disintegrator of inorganic matter, and as there can be no destruction of vegetables or organic matter without the generation of heat, the soil is warmed by admitting the oxygen to the subsoil, where each fibre gives out as much heat in its slow process of combustion as it would if dry and ignited by a match.

#### THE AIR AND THE SOIL.

2. The air takes with it the atmospheric ammonia, and also carries the free nitrogen and carbonic acid which are not fertilizers, to be treated in nature's laboratory and converted into fertilizers and stored for the use of prospective crops. When the subsoil has been properly broken it readily absorbs snow, rain water which comes to us loaded with ammonia which is constantly escaping from decaying animal matter, and being injurious to animal life is sent above by Nature to be absorbed by the moisture which condense above as and is brought back by rain or snow for the benefit of the husband-man who properly prepares his land to absorb and store it.

#### SUBSOIL IS NATURE'S SAVINGS BANK.

The subsoil is Nature's savings-bank for the potash and other earthly salts that leach down but are left in reach of the farmer who will drain his land and plant freely the deep rooting legumes of which there is none better than the field pea. The nitrogen and other valuable properties of the atmosphere which may be converted into fertilizers are retained near the surface by a well prepared soil and are brought to the roots by tillage and the sun's rays to stimulate and promote the growth of our crops.

#### WHAT KINDS OF LAND NEED SUBSOILING.

When the clay subsoil is well broken it allows the redundant water to go down in wet seasons and protects the crop against froth by retaining the hygroscopic moisture of the atmosphere as well as that which is brought up by capillary attraction. It is only the tenacious clay or compact subsoil that needs the subsoil plow. I have known the bottom literally knocked out of fairly productive sandy land with an alluvial porous subsoil by the use of the subsoil plow. We need common-sense on the farm as well as subsoil plow and improved implements. Subsoiling can only help lands that are well drained.

E. Porter.

Pender Co., N. C.

### Terracing and Irrigating.

Southern Cultivator:

I take the Cultivator and get

valuable information from the editor and others. I want some information. I leveled my land with a Bostrom level last winter and broke it up with a two-horse Oliver plow, taking from one terrace to the other in one land. It threw the dirt toward the fence at the end of lands so that the water instead of drifting out came back into the field, breaking across. I want some advice.

1. Is there a hillside plow? If so where can I get it, or can I manage the two-horse plow so as to avoid the above evil.

2. I have four acres of land. It lies below two springs, ten feet fall. Please give instruction how to irrigate.

Yours respectfully,  
Hartford, Ala. W. H. S.

#### Comment by the Editor:

We have often found it advisable where water collected at end of terrace as you describe to give the end of terrace a little fall and open out above the terrace so the water can run out into some road or drain. Just watch your terraces and use good judgment in correcting any deficiency they may have and make them effective; and managed properly they are much more effective in preserving land from washing than anything you can get to take their place. You can get a hillside plow, but think you can manage with the one you have by following above directions.

If you can irrigate four acres of land you should certainly do so. You can make a living upon four acres properly irrigated, made rich and then planted in right kind of crops, such as onions, Irish potatoes, cabbage, beans, or even corn. You can easily make over 100 bushels of corn per acre. You can do better than this, you make two crops—100 bushels of oats and then 100 bushels of corn. With plenty of manure and water when you need it, we can hardly estimate the yield of an acre of Southern soil. You want to build you a cement reservoir to hold the water, or dig you out one in the side of the hill; and have you a flood-gate opening into a ditch that will convey the water to your four acres; then arrange so you can turn it down your furrows when you need it. It may be necessary to level or grade your four acres to get the right fall; if so do not hesitate to do it. Never stand back upon a permanent improvement that will pay you handsomely and be handed down as a rich legacy to coming generations. We think any man ought to consider it a favored privilege to be in a position to do such work. We like to think and talk of immortality, and we know of no better way to attain it than by doing some permanent work that will live and bless the human when we are gone. Nothing we can conceive of will accomplish this better than an irrigation plant, and and we say to all who have the facilities to make use of them as soon as possible, and not put it off.

#### \$100.00 Reward.

OUR NEW DISCOVERY MEDICINE COMPANY of Laurens, S. C., has manufactured and sold thousands of bottles of OUR NEW DISCOVERY within the last three (3) years with an absolute GUARANTEE with each bottle for all Blood and Skin Diseases, Nervousness, Liver and Kidney Troubles, and offers \$100.00 reward to any person who will prove that they have ever failed or refused to comply with the terms of the Guarantee. Sold by Crawford Bros.

## How to Keep Turnips and Beets Through the Winter.

### Southern Cultivator:

The turnip crop is one of great value. We do not claim for it a great fattening quality as some other feed, but it puts the stock in a good state of health and gives variety and tones up. It is an easy crop to grow on fairly rich land with plenty of good guano. And to keep them in winter they need no home—only a hill in the field where they are grown. Throw on trash of some kind and bank them with plenty of fine dirt so the bank will not freeze through to the turnip. Take all the top off before hilling; put no other shelter over; let rain and snow fall on hill. Never put up turnips until they have done growing. When the weather begins to freeze the land then gather the larger turnips and the smaller ones. Let them stand for spring salad with out any cover over the tops left in the ground.

It may not be known to every person that turnips make a fine kraut. They are put up as cabbage kraut. After the hull is taken off chop fine and do not put too much salt—just as you would cabbage kraut.

This has been my way of putting away turnips for many years past and have every year made it a success.

Brother farmer, let us grow more roots. Now to the beet crop. They are put up in like manner as the turnips. Take them up before a freeze and break off the tops and hill in an outdoor place without shelter. As the winter increases in cold add plenty of dirt.

Every farm should be an experiment station in stock feeding—how to keep stock fat in a less costly manner; and the first great thing is health. Too many stock become dyspeptic for want of variety in feed.

R. R. MOORE,  
Chatham Co., N. C.

### Notice to White Teachers of Lancaster County.

I especially request all White Teachers in Lancaster county to meet at Lancaster Court House at 11 o'clock a. m., Saturday Dec. 9th, for the purpose of organizing a Teachers Association, and for discussing important questions affecting the schools in this county. I most earnestly urge that every Teacher in the county be present at this meeting.

W. M. MOORE,  
Co. Supt. Ed.

### The First National Bank of Lancaster, S. C.,

Solicits accounts of individuals, firms and corporations, and offers to depositors every facility and courtesy consistent with sound banking. Interest allowed on time deposit. Safety deposit boxes for rent. Correspondence solicited.

E. M. CROXTON, Cashier.  
CHAS. D. JONES, President.

### LANCASTER & CHESTER RAILWAY COMPANY

SCHEDULE IN EFFECT MAY 28, 1905.  
DAILY EXCEPT SUNDAY

WESTBOUND			
Lv Lancaster	6:30 a m	3:45 p m	
Lv Fort Lawn	6:49 a m	4:15 p m	
Lv Bascomville	6:59 a m	4:30 p m	
Lv Richburg	7:05 a m	4:45 p m	
Ar Chester	7:39 a m	5:15 p m	
Ar Charlotte—Sou. Ry.	9:55 a m	7:00 p m	
Ar Columbia—Sou. Ry.	10:15 a m		
EASTBOUND			
Lv Columbia—Sou. Ry.	6:05 a m	3:10 p m	
Lv Charlotte—Sou. Ry.	6:05 a m	6:00 p m	
Lv Chester	9:00 a m	8:15 p m	
Lv Richburg	9:40 a m	8:39 p m	
Lv Bascomville	9:50 a m	8:45 p m	
Lv Fort Lawn	10:05 a m	8:55 p m	
Ar Lancaster	10:30 a m	9:15 p m	
CONNECTIONS			
CHESTER—Southern, Seaboard, and Carolina & North-Western Railways.			
LANCASTER—Southern Railway.			
A. I. McLURE, Superintendent.			
LEROY SPRINGS, President.			

# A Slaughter Sale

In view of the fact that we are going to make some changes in our business on January 1st, we are going to make some special prices to cash buyers. Note the following and compare with what you've been paying:

2000 yards 10c Outing at 7 1-2c; 1000 yards 7 1-2c Outing at 5c; 2000 yards 6c Gingham at 5c; best Flannel-ette, all colors, 8 1-3c; nice line of 75c waist Silks, this sale 50c the yard; yd. wide Taffeta 75c yard, best grade, wear guaranteed, 98c; 52 inch Broadcloth, worth \$1.00 per yard, for only 75c. We have been selling

## Clothing and Overcoats

to beat the band, but we are determined to break all previous records. \$15.00 suits, this sale 11.00; 12.50 suits, this sale 9.00; 10.00 suits, this sale 7.50; 7.50 suits, this sale 5.00; 5.00 suits, this sale 3.75. Same slaughter price in Overcoats. Everybody knows there is an advance in the leather market of at least 25 per cent., but we continue to sell

## Shoes at Old Price

Should you need Underwear for the cold December weather, see ours. Wright's Health Underwear 85c; best 50c knit Underwear 37c; good 35c knit Underwear 22c. If your dollars are worth saving, see us before making your purchases. Yours to serve,

# Funderburk Comp'y.

5 cents will buy either 4 cakes good Laundry Soap, 10 cents bottle Machine Oil, 8 balls Sewing Cotton, and a hundred other things we can't mention here.

F. Co.

# HORSES!

## Horses, Mules, Mules!

Our Mr. Hood has just closed another deal for six car loads of Mules and Horses—180 head. Two of these cars come here, one of horses and one of mules. Think of it, 60 head to arrive in a few days, and Mr. Hood wires they are the best we have bought this season. Some closely matched teams of extra fine mare mules that weigh from 1100 to 1250 each. This is a grand opportunity to buy brood mares. Have some with extra finish and family broke.

## Buggies, Buggies.

Two solid cars to arrive this week, all kinds and styles.

## Wagons, Wagons.

Have just closed a deal for 100 more, and we have stacks of them on hand of all sizes—one, two, three and four horse with regular or broad tire. Come one, come all. Those who do not feel able or willing to buy a new vehicle can buy a second hand, as we have at least 100 second hand buggies, carriages and wagons on hand that we are going to sell regardless of the price. Don't fail to

## Come and See Us

for we are far ahead of any retail stock and vehicle dealers east of the Mississippi river. Remember our harness department. We manufacture all of our harness and have no competition.

Remember, we buy as well as sell.

# Gregory-Hood Live Stock Co.