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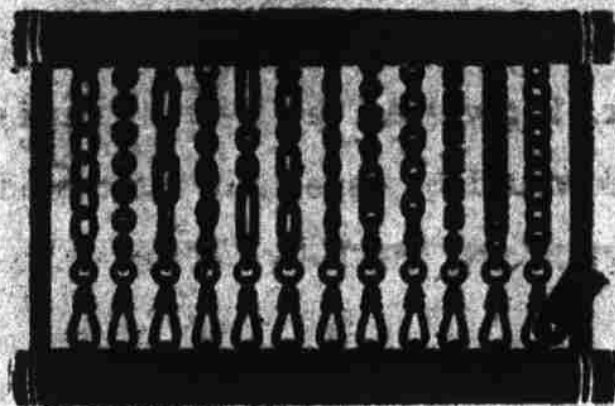
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VOL. XXXVIII, NO. 48

LUMBERTON, NORTH CAROLINA, MONDAY, JULY 22, 1907.

WHOLE NO. 2271

## R. F. SIMMONS & COM'NY GOLD FILLED CHAINS

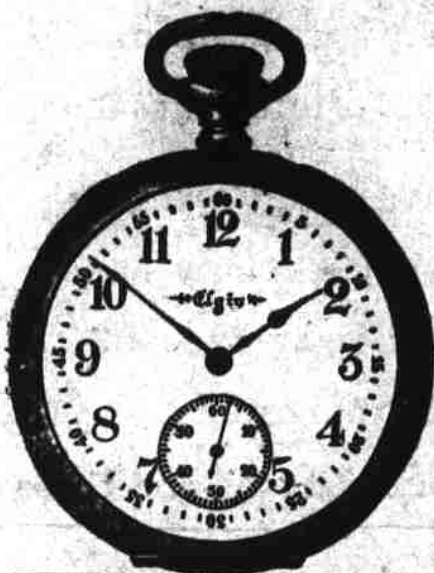


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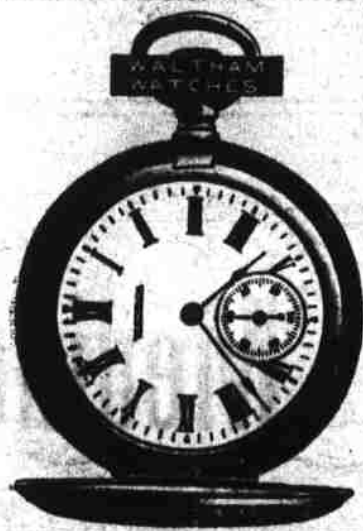
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Success often comes  
late in life, but for bar-  
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have.

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### FARMERS INSTITUTES.

Many People Attend the Farmers' and Women's Institutes Held at Raft Swamp and Barnesville—Interesting and Helpful Talks Made by Practical Men and Women—Outlines of Some of the Speeches—A Pleasant and Profitable Occasion.

The farmer's Institute held at Raft Swamp, this county, on Thursday of last week was attended by a large number of people, 500 being a conservative estimate, perhaps, and the day was spent in an enjoyable and profitable manner. The Institute for men was held in the school house, Mr. E. F. McRae, of Maxton, chairman of the County Farmer's Institute Committee, presiding. Dr. Tait Butler, of the State Department of Agriculture; Col. R. J. Redding, of Griffin, Ga., formerly director of the Georgia Experiment Station, and Mrs. N. A. Layton, of White Oak, Bladen county, were the speakers. The Institute for women was held in the church by Mrs. Walter Grimes and Mrs. F. L. Stevens, of Raleigh. Morning and afternoon sessions of both Institutes were held, dinner being served on the grounds.

Dr. Tait Butler was the first speaker at the meeting for men. His subject was "How Shall we Use Our Corn Stover and Cotton Seed to Get the Most out of Them?" We give below the main points brought out in his talk.

#### CORN STOVER.

Taking the whole corn plant, 46 per cent. is ear (grain and cob), and 54 per cent. is stover (stalk, blades and shucks), but as animals are able to use as feed a larger percentage of the grain than of the stover, the feeding value of the corn plant is: ear 51 per cent., stover, 49 per cent.

PULLING CORN FODDER IS EXPENSIVE, WASTEFUL, AND DOES NOT PAY.

In experiments made to test the effect of pulling fodder on the yield of weighed shelled corn per acre, the following results have been obtained:

Georgia—Pulled, 23.9 bushels per acre; untouched, 27.3 bushels per acre; loss, 3.4 bushels per acre.

Florida—Pulled, 28.2 bushels per acre; untouched, 31.1 bushels per acre; loss, 2.9 bushels per acre.

Mississippi—Stripped, 35.5 bushels per acre; topped, 29 bushels per acre; untouched, 43.5 bushels per acre; loss, 8 and 14.5 bushels, respectively, per acre.

Alabama—Two trials, loss 4 bushels per acre.

Average loss 6 bushels per acre.

#### FODDER OBTAINED.

Georgia, 270 pounds per acre; Florida 580 pounds per acre; Mississippi, 936 pounds per acre, (tops included). Average, 595 pounds per acre.

These figures indicate that on an average 6 bushels of shelled corn per acre were sacrificed for 595 pounds of fodder, and the labor and cost of pulling thrown in.

One acre of corn yielding 25 bushels of shelled corn will

give an average of over one ton of stover (stalks, leaves and shucks). To harvest an acre and shuck the corn and shred the fodder costs from \$3.00 to \$3.50.

Feeding Value of Timothy Hay and Shredded Corn Stover Compared.

#### DIGESTIBLE NUTRIMENT.

	Protein	Carbohydrates	Fats
One Ton Timothy Hay,	56 lbs.	599 lbs.	21 lbs.
One Ton Corn Stover	64 lbs.	646 lbs.	14 lbs.

As stock will probably waste 15 per cent more of stover than Timothy hay, the latter is that much more valuable for feeding.

#### COTTON SEED.

Cotton seed have two values which the farmer should consider—a feeding value and a fertilizer value.

#### FEEDING VALUE.

100 pounds of cotton seed, 116 pounds of corn.

100 pounds of cotton seed meal, 150 pounds of cotton seed.

100 pounds of cotton-seed meal—175 pounds of corn.

Cotton seed at \$16.66 per ton, or 25 cts. per bushel; cotton seed meal at \$25 per ton, and corn at 40 cts. per bushel, are about equally cheap for feeding purposes.

#### FERTILIZER VALUE.

One ton of cotton and seed contains:

75 pounds of ammonia at 16 2/3 cts.,	—\$12.50
4 pounds of phosphoric acid at 4 1/2 cts.,	—1.80
24 pounds of potash at 5 1/2 cts.,	—1.32
Total,	\$15.62

If cotton seed be fed to cattle and the manure saved with reasonable care, 75 per cent of their original fertilizer value may be retained in the manure, in other words, when cotton seed are fed to cattle and the manure saved with reasonable care, a ton of cotton seed will give \$11.13 worth of manure at the prices paid for mixed commercial fertilizer; that is, by feeding cotton seed to cattle, we can get a fertilizer value of \$11.13 per ton or 16 2/3 cts. per bushel, and a feeding value of \$16.66 per ton or 25 cts. per bushel when corn is worth 40 cts. per bushel, or a total value for our seed in feed and fertilizer of \$27.79 per ton or 4 2/3 cts. per bushel.

#### FRUIT GROWING.

Mr. N. A. Layton, a successful farmer of Bladen county, followed Dr. Butler with a talk on fruit growing. We regret that we failed to get a good report of Mr. Layton's interesting and instructive talk. He spoke of the importance of location, good drainage, how to get trees, varieties of fruits, the scuppernong grape and how to propagate and cultivate, fertilization and cultivation of orchards, pruning and spraying, grafting and budding, telling how and when to do these things, and then he took up canning fruit for family use in off years.

We give below an outline of two addresses by Col. R. J. Redding, of Griffin, Ga. Col. Redding was born and raised a farmer and followed it as a means of livelihood for 20 years. For two years of his early manhood he was engaged in the practice of law, but he tells us he reformed and was converted, and returned to his

first love, giving up the practice of law, and has since given his entire time to practical agriculture, and for the last 30 years of his life to the studying of methods of experimentation with a view of improving the agricultural South. He gave up the position as director of the Georgia Experiment Station last June, after holding the position for seventeen years.

#### COTTON CULTURE.

Col. Redding sought to impress upon the farmers the essential importance of producing cotton at the lowest possible cost. He insisted that the farmer could not control the price, but he had the cost largely within his power. He stated in his opinion for a good many years past, not including the last year or two, a very large percentage of the cotton planters have been producing cotton at a loss. He stated, in addition, that taking all the farmers together, the average cost of the ten crops down to 1902, inclusive, was fully equal to the average market value.

The second point made was the importance of rotation of crops. Col. Redding insisted that cotton should not follow cotton, but that a regular system of rotation should be adopted. He made it clear that the only way to secure immunity from the many insects and fungus pests of cotton was to disappoint the insects by planting cotton on a different field the next year. His system of rotation is as follows: First year, commencing with cotton, to be highly fertilized; second year, corn, to be moderately fertilized. The corn crop to be harvested by cutting down stalks about a week later than the time for pulling fodder, and shocking same and shredding it when dry. The land should then be sown to oats, or other small grain, which should be harvested in June of the third year, to be followed by cow peas, the vines of which should be made into hay.

He also gave the fertilizing formula as best for the cotton planter, to wit:

1,000 pounds acid phosphate, (14 per cent) 675 pounds cotton seed meal; 75 pounds, muriate of potash.

He advised the application of five or six hundred pounds per acre, and that the fertilizer should be applied from one to two weeks before planting time, and bedded on.

The speaker gave no encouragement to the practice of inter-cultural fertilizing, that is, dividing the fertilizer in two or more applications. It should be stated that the formula above given, would analyze about 970-270-270 or relatively 10:3:3.

One point that he made that was particularly interesting was the importance of adding a small quantity of nitrate of soda in the furrow with the planted seed, say about 25 pounds to the acre. This has the effect of producing very prompt germination and growth of the seedling plants. The speaker also laid particular stress upon the importance of securing and maintaining a full

(Continued on 8th page.)

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