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NORTH CAROLINA CLUB STUDIES

THE ORANGE SOIL SURVEY tal employed.

The Orange County Soil Survey will soon begin. It will be made by Messrs. Hardison and Brinkley who are now finishing up their work in Halifax county. These surveys are directed by Dr. B Kilgore, director of the Federal Experiment Station in Raleigh.

This will be the last of a series of economic and social surveys made in Orange beginning in the spring of 1915, as follows: (1) A Sanitation Survey by the U. s Public Health Service and the State Health Board, (2) A Farm Home Survey, (3) A School Survey, (4) A Church and Sunday School Survey by the University in cooperation with the Federal Office of ity in cooperation with the Federal Farm Demonstration Office.

and Social will be based on these six sur- is large. eys. It will be ready for issue as soon as the last two survey results are avail-

TRAINED AT THE UNIVER-SITY

charge of R. B. Hardison of Anson, A. B., class of '07, on the part of the United earners. Alabama decreased in the tates Government, and L. L. Brinkley, number of establishments, while South class of '07, of Wilson, on the part of the

In the Federal Soil Survey three of the five inspectors for the entire United states received their training in laboraory and field work, under Professor Collier Cobb. These are W. E. Hearne, S., 1900, of Chapel Hill, T. D. Rice, Ph. B. 1900, of Florida, H. H. Bennett, S. 1903, of Wadesboro.

orking in the Soil Surveys of the Fed- of cotton goods produced. ral Government are Carolina men.

DOCTOR MANGUM IN STANLY

Dr. Charles Staples Mangum of the University medical faculty has offered his services to the State Board of Health in the anti-typhoid fever campaign in North Carolina and in a few days goes to Albemarle to direct the work through the month of August.

Doctor Mangum has just closed his ummer school engagement at the University, following the year's work with a summer course that kept him busy another six weeks For his vacation he has planned still harder work. He will go to Albemarle to aid Stanly county in stamping out typhoid through the vaccination campaign and the end of this engagement will find him at the beginning of another school year.

This is but another phase of the University Extension work, an activity in another direction which is making the institution more and more powerful. It has taken an active part in the moonlight school movement. It is behind the post-graduate medical course now being given in 12 towns in North Carolina and is joining hands with the State Board of Health in fighting disease. Dr. Ed Graham's administration is indubitably turning up things. - Greensboro News.

NORTH CAROLINA LEADS THE SOUTH IN INDUSTRIAL DEVELOPMENT

shows North Carolina ahead or nearly so states is inspiring.

In manufacturing industries North Carolina is, all told, the best developed state in the whole South. If you are in doubt about it, look at the facts.

North Carolina leads the South (1) in the average number of wage earners, 136,844, (2) in the primary horse-powers from 34 to 66; brick, tile, and potte y North Dakota. employed, 508,235, (3) in the total in value added by the processes of manu-general construction shops, from 11 to Their farms are large, they have more amount of wages paid, \$46,038,000, (4) facture, \$119,470,000, and, (5) in the per 16; cotton mills from 212 to 293; flour work animals, more livestock of other cent of increased value due to manufact and grist mills from 234 to 293; hosiery kinds, and more improved farm machinture, 26 per cent.

dishments was 5,507. Only Virginia had spring bed factories from 9 to 29; foun- out the year, and (2) by re-enforcing spring bed factories from 9 to 29; foun- out the year, and machine more-and only one more!

a little ahead of us in the amount of capi-

But the value of our mill and factory products was \$289,412,000, and we were ahead of Virginia in this particular by \$25,000,000, Louisiana by \$33,000,000, Georgia by \$36,000,000, Kentucky by \$59,000,000, Tennessee by \$77,000,000, Alabama by \$113,000,000, and South Carolina by \$150,000,000. We were behind Texas alone, big as she is, by only \$71,-000,000. We were too far ahead of the other Southern states to bother with com-

Gains in Every Particular

The total value of our manufactured products increased \$72.551,000 between 1909 and 1914. Here is an increase of Markets and Rural Organization and, (5) 33.6 per cent; in which particular we A Farm Practice Survey by the Univer- outstripped every other Southern state except Oklahoma which is just beginning a vigorous industrial development. Her A bulletin on Orange county: Economic output is sma'l but her per cent of gain

The value added in the processes of manufacture in North Carolina was \$119,-470,000; in which particular we outstripped every other state in the South.

Our five year increase in the number of industrial establishments was 11.7 per cent. Virginia, Kentucky, Georgia, and The soil survey of Orange county is in Mississippi suffered a decrease both in the number of establishments and of wage Carolina and Florida decreased in the number of wage earners during this fiveyear period.

OUR INDUSTRIAL LEADER-SHIP

North Carolina leads the South in the number of textile mills, in the amount of raw cotton consumed, in variety of cot-A large proportion of all the men now ton mill products, and in the total value

> North Carolina leads the South in furniture manufacture and in other tim- the state. ber working industries. And she leads the whole United States in the manufacture of chewing and smoking tobacco.

The leading industries of North Carolina are based on her own home-produced materials-cotton, tobacco, and timber. She consumes in her own mills all the and more. Her tobacco factories are seated in the center of great tobacco North Carolina industries are base on own forests, at a cost less than the aver- L. Rogers. age in ten of the great furniture making states, and \$7 per thousand feet less than the average for the country at large.

North Carolina leads the South in the average number of wage earners in her mills and factories. The number in 1914 was 136,844. the only other southern states having more than a hundred thousand operatives were Georgia with 104,000 and Virginia with 102,000.

Prosperity in North Carolina does not consist in the annual production of crude wealth alone-crops, livestock, livestock products, minerals, timber, and the like. No state that is occupied in producing raw materials merely or mainly has the largest chance to accumulate wealth in large totals.

But North Carolina takes a hundred and sixty-nine million dollars worth of cotton, tobacco, and timber, her own products mainly, and increases their value by one hundred and nineteen mil-The Federal Census of Industries lion dollars in the processes of manufacture in her own mills and factories.

In this particular she outranks every

WONDERFUL EXPANSION

every particular. In the ten-year period states named, the crop values produced from 1904 to 1914 our bakeries increased ranged from 5783 in Kansas to \$1,378 in works from 107 to 139; carriage and wagon factories from 125 to 137; car and they produced large values per worker. and knitting mills from 40 to 74; cotton- ery per farm. They economize labor (1) The number of manufacturing estabdry and machine shops from 70 to 136; human power with horse and machine Our capital invested was \$253,842,000. marble and stone works from 22 to 64; power. Georgia, Louisiana, and Texas were each fertilizer factories from 27 to 41; and our Our farms are too small in average

ONCE-A-MONTH SERMONS Dr. Archibald Johnson

Once a month preaching is the next thing to no preaching at all. The fact that under the present plan of twelve Sunday services a year, and no pastoral work at all, our country churches have survived, proves that they were divinely established. No worldly enterprise could live for six months in the slip shod and stupid way we manage our churches.

It is by the foolishness of preaching that men are to be saved, and multiplied millions have seen the light through the once a month service; but how much we have lost in opportunity and in the joy of service, and how many other millions we have allowed to perish because we slept when we should have been at work, the Lord alone knows.

Our churches in the country are our plant beds and from them we have drawn our leaders in all lines of service. With the meagre and pitiful means of growth and power these churches have enjoyed, they have managed somehow to produce the men who have moved the world! What a mighty contribution they could have made to mankind if they had keen half way managed!

1,364 to 2,652. Miscellaneous factories increased from 288 to 441.

We have fewer agricultural implement works, and fewer tobacco factories, but around twice the the output in both cases. Also fewer woolen and worsted mills but a larger production. Boot and shoe, turpentine and rosin manufacture seem to be about the only dwindling industries in

Our cotton goods increased from \$47, 254,000 to \$90,744,000; hosiery and other knit goods from \$2,484,000 to \$8,892,000; tobacco factory products from \$28,088,000 to \$57,861,000; lumber and timber mill products from \$19,489,000 to \$39,632,000: cotton-seed oil mill products from \$3, cotton she produces from year to year, 749,000 to \$15,269,000; and our fertilizers from \$3,099,000 to \$10,308,000.

use more wood than any other state in the 1914 Federal Census, put at our disthe Union, but it comes mainly out of her posal by the Census Director, Mr. Sam

LESS LAND BETTER CULTIVATED

Almost every day we run upon the opinion that what the South needs most is issue Mr. S. H. DeVault presents a table that throws light on this subject.

In trying to puzzle out the causes for the small per capita country wealth in farm properties in North Carolin and other cotton-belt states, we have come to conclude that what we need is not smaller farms but larger farms-larger farms better equipped with improved machinery, and better stocked with farm animals; with larger operating capital, and better organization for producing and marketing farm products with fair ad-

Cultivated Acres Per Farm Worker

A farm worker in North Carolina in 1910 cultivated upon an average only bird's-eye view of the thirteen southern other Southern state, Texas included, big 14.5 acres; but in Kansas, Nebraska, South and North Dakota the averages ranged from 109 to 156 acres per farm

Our farm workers produced crop values North Carolina shows gains in almost averaging only \$236 each, while in the

We produced large values per acre;

UNIVERSITY SCHOOL OF EDUCATION LETTER SERIES NO. 86

THE BIENNIAL TEST Low Salaries

saying it again has little effect.

by all who have listened to any non-teacher speaker at educational meetings. Only the other day at a great educational meeting a non-teacher speaker declared with great energy that he hoped to live to see the day when teachers should be well-paid for their great work with the children of the land. This kind of talk sounds mighty good but it always ends with the saying of it so far as practical results are concerned.

Something Worse

Low salaries are bad enough but there is something worse and it ought to be

faithful teachers in our school. Nothing does more to nag, to discourage, and to humiliate our teachers than the fact that Teachers are the best praised people in every other year they are hauled up bethe world, and they are the poorest paid fore the county superintendent or some people in the world. That they are the other examining person and re-examined poorest paid people who work for the as teachers, and this too in spite of the fact public has been said so many times that that his work with them as superintendent has given him more information as That they are the best praised is known to fitness than any examination can give. **Profitless Examinations**

A study of the records will show that precious little is accomplished by these biennial examinations so far as raising the standard of scholarship is concerned. The prevailing low salaries do not attract and will never attract many of the best educated men and women into the teacher's profession, and too often the teachers of the year before have to be retained regardless of how they show up in the hurried examination.

Humiliating Torture

Why humiliate our teachers by subjectremedied and remedied at once. It ought ing them to this biennial examination? to be referred to time and again in the Can't something be done to place teaching press and in public speech until the peo- on a plane with the other professions? ple do the fair and just thing by the Who stands in the way?

part. These crops yield the largest aver- properties ranges from \$47 in Dare, the age values per acre, but the labor cost of lowest in the state, to \$560 in Alleghany, production leaves too small a margin of the highest in the state. Here also the profit and reduces to a minimum the the larger the per capita acreage the chance to save and accumulate farm greater the per capita wealth retained.

\$3.386 in Iowa.

per farm worker in the United States a lessening chance to buy and use farm ranges from 11.9 acres in South Caro'ina machinery profitably. Farm tenancy and to 156.2 in North Dakota. In North small farms may mean larger yields per Carolina our average was 14.5 acres and acre, but they also mean smaller yields rank 45th.

which has 673,000 farm workers on 9,- animals. 000,000 cultivated acres; and South Carc- In 1910, our farms without sheep numina 511,000 farm workers on 6,000,000 improved acres.

tivates three times as much land as Mississippi, and nearly five times as much land as South Carolina.

In general the smaller the average of cultivated acres per worker, the smaller little as a rule for livestock. the per capita production of crop values, smaller farms better cultivated. In this and the smaller the per capita accumulation of wealth.

in North Carolina in 1910 ranged from acres in Alleghany. But notice also that of small farms cultivated by tenants.

made with simple hand tools for the most the per capita country wealth in farm

The simple fact is, we have too many As a result the per capita country farm workers in North Carolina for the wealth in farm properties in the South acreage under cultivation; too small an ranges from \$231 in Alabama to \$830 in average of crop wealth produced per farm Oklahoma; against \$2,111 in Kansas and worker, and too little accumulated country wealth in consequence.

Averages in the United States Farm Tenancy a Radical Evil

Increasing farm tenancy means a steady The average number of acres cultivated decrease in the average size of farms, and per worker.

In only three states was the average Permanent farm prosperity does not lie smaller than in North Carolina: in Rhode in the direction of smaller farms, smaller Island which has less farm land in acreage per worker, smaller yields per cultivation and fewer farm workers than worker, along with increasing farm ten-Wake or Robeson county; Mississippi, ancy, and deficiency in meat and milk

bered 239,000; without cattle of any kind, 67,000; without milk cows, 78,000; With 354,000 farm workers, Iowa cul- and without swine, 55,000.

A Spendthrift System

Tenants are usually crop farmers mere-They give themselves to hand-made cash-crops on small farms. They care And so we create enormous crop wealth from year to year and retain little of it; (1) because we cultivate too few acres per farm worker, (2) because the labor cost reduces Averages in North Carolina cash-crops are raised on a basis of expenprofits to a minimum. (3) because our The acres cultivated per farm worker sive credit, and (4) because our cotton and tobacco wealth leaves the state to pay for food and feed crops we neglect to nine-tenths of an acre in Dare to 36.2 raise at home under the southern system

AVERAGE CULTIVATED ACRES PER FARM WORKER

Based on the 1910 Census Report upon Agriculture and Occupations

i	10	S. H. DeVAULT, University of North Carolina.						
Š	Rank State		Acres per Rank State				Acres per	
l			Worker	10-			Worker	
I	1	North Dakota	156.2	25	Pennsylvania	3/19	35.9	
Į	2	South Dakota	126.7	26	West Virginia		34.5	
ı	3	Nebraska	120	27	Kentucky		31.7	
Ī	4	Kansas	109	28	Delaware		30.6	
į	5	Nevada	85	29	Maine		30.3	
ł	6	Iowa	83.2	30	Texas		29.5	
I	7	Minnesota	70.3	31	Maryland		28.9	
ļ	8	Montana	67.7	32	Virginia		27.7	
ļ	9	Illinois	62.3	33	New Hampshire		26.7	
ì	9	Washington	62.3	34	Tennessee		23.4	
Į	11	Missouri	54.2	35	New Jersey		22.5	
ł	12	California	52.7	36	New Mexico		22.1	
ı	13	Oregon	52.2	37	Connecticut		21.1	
	14	Wyoming	50.7	88	Arkansas		17.3	
	15	Colorado	50.6	38	Georgia		17.3	
	16	Oklahoma	50.3	40	Arizona		16	
	17	Indiana	49.3	41	Massachusetts		15.8	
	18	Idaho	49	42	Louisiana	1-0-7	15.5	
	19	Obio	45.9	43	Florida		14.9	
	20	Wisconsin	40	44	Alabama		14.6	
	21	New York	39.5	45	North Carolina		14.5	
	21	Michigan	39.5	46	Rhode Island		14.2	
	23	Utah	36.6	47	Mississippi		13.4	
	24	Vermont	36.5	48	South Carolina		11.9	