GOOD ROADS.

Very Ably Discussed By State Geologist J. H. Pratt.

"A good road is one that is good 365 days in the year."

The absolute necessity of a system of good roads which will is practically thrown away. make it possible not only for every citizen of this State to market his products at the least is being realized by all thoughtful citizens.

and Economic Survey has collect- lina Geological and Economic ed data relating to road work in Survey, pages 72-128). the State during 1911, and some, of this data will be of interest, be immediately eliminated, yet it cause of their integrity and busiand profit to those who are interior is felt by all thoughtful citizens ness ability. ested in studying and finding a that steps should be taken to solution for this problem.

Road Mileage.

Number of miles of public road infinitely small in comparison. in the State 48.235

Number of miles of improved road (macadam, sand-clay, gravroad built during 1911

Road Revenue.

1911 for roads

By Whom Spent.

This money is spent, as a rule, by the county commissioners, but in special cases, by township commissioners, county road commissioners, or township road commissioners.

Maintenance.

It is a matter of common knowledge that the present sys-

UNG DISEASE. After four in our family had died f consumption I was taken with frightful cough and lung trouble, ut my life was saved and I gained DR. KING'S

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tem of road maintenance, carried

Cost of Bad Roads

cost, but lessen the present enor- present system of bad roads is road go to pieces. mous tax which each citizen who annually costing the people travels the highways of North (principally the farmer) over for State aid in the form of engilog drag. Carolina now pays to bad roads, \$12,000,000 increased cost of neering assistance and for testhauling a similar load over an ing road materials. improved road. (See Economic The North Carolina Geological Paper No. 27 of the North Caro-

gradually do away with this bur- law which provide for the organdensome indirect tax even if it is ization of the road force of the necessary to impose a direct tax, county on a business like basis,

Defects of Present System.

el or specially surfaced) 3,4495 selected for carrying on the road to whom he would be responsible Number of miles of improved work in the majority of the coun- for the quality of the work done. 1,0921 ties are untrained for this kind Such a Superintendent should Amount of special tax collect- construction, and maintenace carry on the county work ed for roads during '11 \$1,466,354 The idea has prevailed that any-efficiently. Amount of free labor (rate one could build a road, and that at \$1 per day per hand) and of the roads could be maintained by the form of engineering assistanconvict labor (valued at cost of the poorly directed and desultory ce. An appropriation of \$50,000 a keeping and guarding con- work of free labor. In a great year to the High way Department \$916,000 many cases where roads have of the State Geological and Eco-Value of bonds issued during been built with money raised nomic Survey would be sufficient \$857,000 by bonds or special tax, they at the present time to meet the Total amount spent in North have not been properly built and requirements from the counties Carolina during 1911, money and have cost too much, principally for such assistance. The advan-\$3,239,357 because they were not built by tages of this form of State Aid trained and experienced road would be: engineers.

great many of the so-called afford to employ. public roads of the State were before being surfaced, should be relocated, as the location of a road is the permanent part of it, never have to be done again. In road location it has been the experience in other States that better results can be obtained is a tendency for the county politics rather than controlled by the factors which should determine the location of a road.

(3) Lack of Uniformity in County Road Laws. Quite a number of the counties have special road laws at the present time, and in most cases the provisions of these laws do not admit of systematic and effective road work. They were framed by men unversed in the art of road building, and hence the laws are not practical. The result is that there is a very dissimilarity in the road laws of the various counties, and it is believed that f they were more homogeneous much better and more economical results would be attained. By having a uniform road law applying to all the counties of the State, with just enough variations to adjust it to varying local physical conditions, it would be possible to work out a systematic method of road administration and construction which would insure more economical and efficient results to the State as a whole.

on in many counties by free is principally the result of the capable judges of the work done, counties are more or less inlabor, results in nothing of per- time - honored, but inefficient, (See Economic Paper No. 27 of terested in seeing the road commanent value and seldom affords method of free laborstill in exist- the North Carolina Geological pleted as a whole. (See Econoeven temporary relief from bad ence in many of the counties, and Economic Survey, pages mic Paper No. 27, pages 131conditions; so that the enormous Every road has to be maintained, 129-130.) amount expended for this pur- regardless of the surfacing ma- 4. In every county general 7. State Aid to counties in pose (at least \$800,000 per year) terial. The minute a road is scheme for road work should in- connection with the the issuance It has been estimated that the will begin to wash away and the sand-clay, and gravel) but of all mic Paper No. 27, pages 132-148. DR. CHAS. L. MARTIN

Suggested Remedies.

Commission, non-political, the While such a condition cannot members to be chosen, be-

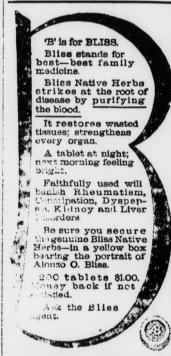
2. Have a uniform wounty road having a Road Superintenden whose ability for 'such an office would meet with the approval (1) Administrative. The men of the State Highway Engineer. of work. Technical skill is ab- have under him supervisors, foresolutely essential in road location, man, etc., such as are needed to

3. State Aid to the counties in

a. A better class of engineers (2) Improper Locations. A than the individual county could R.

b. A saving in engineer's exif each county employed its own engineer total cost for such work in 100 counties would amount to and once done right it would at least \$150,000 per year, and without as good results.

c. Each State engineer would be efficiently supervised, whereas the county engineer is responthrough State engineers. There sible only to county authorities, and in most cases such authorengineer to be biased by local ities have not the expert know-



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(4) Lack of Maintenance. This ledge which would make them way. In such roads all the

finished maintenance should be-cluded a provision for constant of bonds, the State to lend its gin, or it will not be very long maintenance, not only of the im- credit to the county in accordance before the surfacing material proved surface roads (macadam, with the plan outlined in Econothe dirt roads, through the time- This method of financing roads (5) Inadequate appropriation ly and constant use of the split is also discussed by Mr. W. S.

labor tax.

general supervision of the Coun- gical and Economic Survey. ty Road Superintendent. Use In brief the plan is this: The

Laffargue

PIANO

Durability of Construction.

Cataogue Free.

Write Department S.

132.)

Wilson in a paper read before 5. Do away with the free the North Carolina Good Road Association, whose proceedings 6. Use all county convicts in are give in Economic Paper No. 1. Have in each county a Road a county chain gang under the 30 on the North Carolina Geolo-

all State convict on a state road county as a rule has to pay 5 per 506 force to be employed in building cent on its bonds; the State can links of state roads where the readily obtain money at 4 per FOR SALE-Several farms near counties are not in a financial cent. Let the county issue its Winston-Salem. All kinds of city position to build such links, as bonds and let them be taken in portions of the Central High- over by the State at 5 per cent then issue the same amount of bonds at 4 per cent and the difference in interest of 1 per cent which the county pays to the State in excess of what the State has to pay, will, when placed at compound interest, retire the bonds without the county's paying anything additional.

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