OXFORD PUFLIC LEDGER, FRIDAY NOVEMBER II, 1910

ABOUT GOOD ROADS.

this Respect.

By Hon, Logan Waller Page., in "Southern Good Roads."

med up as follows:

on these roads, both in money and labor, was a fraction over \$79,000, of a single section of the road. He over the other two units. 000 in 1904, or about \$1.05 per cap. keeps the ditches open, carefully land, with only 150,000 miles of year, or about fourteen times as much per mile.

Same as 30 Years ago.

According to our road census, we have less than 40,000 miles of stone surfaced road, or about 2 per cent United States is, considering area, conductors prepare estimates of ritory they lead. population and wealth, at the necessary expense for the next year. A striking feature of the Saxon produced few appreciable results.

When we turn to the subject of road administration in the United States, we find that about half of the states are operating under prac- ent time 23,656 miles of national sents a much larger sum. ticaly the same road laws as prevail routes which cost \$303,975,000 to The state roads are cared for by on the part of these petty officials. routes connecting the important cen miles of road. With few exceptions, no system of ters of a single department and dis- in the case of the minor roads, accounting is in force, so that an secting the national routes. 3rd. the direct responsibility is borne by intelligent idea may be obtained as Highways of grand communication the authorities of the county. They to the disposition of the road tax: little less important than the pre-levy the cost of maintenance and and no definite lines of authority vious class. 4th, Highways of public collect the revenues. The communiare established such as would guar- interest traversing a single canton ties engage the road employes for antee the wise and equitable conduct of the work. This is the system which prevailed in all the states until less than twenty years ago. It is, therefore, easily understood why, at the present time, the concrete results in the matter of road building are sc few, are confined to a comparative- penditure for the year 1905 to 1906 ly recent period, and are located in those states which have broken away form the inadequate and ineffective system which I have just described. It can also be understood why, at the present time, road work in those states which have clung to the old methods, and the old system, is conducted in a was eful, intermittent and wholly inclusive manner, productive of no. good results.

rordissements are under engineers, government aids in the maintenthe latter being equivalent in rank ance of the highways by a contribu-Matters Pertaining to Highways in to non-commissioned officers in the tion proportioned to the sum raishe United Staes as Compared arn." The sub-divisions are under ed by the imperial taxation levied With Foreign Countries-Ameriors and ordinary conductors. Next As to skilled supervision it may

ca is Greatly Behind Europe in in line come the foremen of con- be said that no qualifications are struction gangs, the clerks employed required by law to be possessed by at beadquarters, and finally the the new in charge of road building cantonniers or patrolmen, each hav- and maintenance, but it is the gen-The Present road situation in the ing from four to seven kilometers erai practice in the important dis-United States may be briefly sum- lighway under his immediate super- tricts to appoint experienced engivision. This great administrative neers for this work. The English In mileage, we have the most tre- machine working in complete har- system lacks strong central control mendous system of roads which any mony with definite lines of respon- in each county there being four country has ever possessed since sibility clearly established, accom- different classes of government unit: the world began. According to a pishes results with the precision namely-the county boroughs, the careful road census, the length of and regularity of a great clock tick- urban districts, the rural districts all of our roads amounts to 2,155, ing off the seconds of time. Proba- and rural parishes. While the coun-000 miles. The most liberal es- | bly the most important unit in this ty council exercises some control timate of our annual expenditure great army of workers is the can- over the rural districts and the rutonnier or patrolman who has charge ral parishes, they exercise none

How Germany does it.

ita. At the same rate, this would fills holes and ruts with broken Germany, Germany is a federabe an expenditure of about \$90,000, stone, removes dust and deposits tion of states, and it follows that 000 a year at the present time. Eng. of saud and earth after heavy rains, road administration is conducted trims the trees and bushes, and separately by each state of the emroad, spends about \$80,000,000 a when ordinary work is impossible pire. The imperial government exhe breaks stone and transports it to ercises very little control over the points where it is likely to be highways, and does not in any way needed. He brings all matters re- contribute to the expense of their quiring attention to the notice of construction and maintenance. The his chief. Each cantonnier carries Eingdom of Saxony may be taken a little book in which the chief can-las a representative state of the tonnier notes his instructions and German empire. In Saxony, the high of the total milage; we have 108, checks up the work accomplished, ways are divided into state roads, 000 miles of gravel road, or about The conductors go over the line at country roads and private ways. The 5 per cent of the total mileage, regular intervals and direct the state roads comprise those which Small as our annual expenditure chief cantonnier and all reports have been built by the state and are for roads has been, it has aggrega- are transmitted to the central au- maintained by the state. The counted, during the 30-year period from thorities, so that any day or any try roads are generally termed 1870 to 1900, a total of upwards hour the exact condition of every "communicating roads," and are of \$1,800,000,000. We may, there-foot of road throughout France may built and maintained at the expense fore, say that road building in the be ascertained. Every year the of the parishes through whose ter-

same point at which it stood thirty under three heads-namely; main- road system is the practice of plantyears ago, and the seventeen hun- maintenance, heavy repairs and new ing of fruit trees along the roads, dred and odd million dollars have work, and the parliamentary, ap- the fruit yielding a considerable repropriations are based upon these venue. About \$40,000 a year is obtained from the fruit grown along state roads, while the amount ob-

There are in France at the pres- tained from the country road repre-

ed in England when America was I wild. There are 315,898 miles of a commission of engineers. The a Colony. This system of road ad- tocal highways built at a cost of Kingdom is divided into seventeen ministration provides for the pay- 3300,800,000 of which the state road districts, in each of which ment of read taxes partly in labor invaished \$81,060,000 and the in- here is a road inspector and road and localizes the work to an ex- terested localities \$227,740,000. The masters, who are employed constanttreme degree, by placing in authority points of France are classified into by throughout the year. Each road the district or township road over- in - casses: 1st, national routes, master has about thirty-seven miles seers, or road supervisors, no re- reversing the various departments of road under his direction, and a quirement being made to insure and connecting important centers road force of about fifteen men; skill of knowledge of road building of population. 2nd. the department each man caring for two and a half



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Not on Sound Basis.

been placed on a sound and pract- devolves entirely on local authoriical basis, or steps taken in that ties, these numbering about 1900. direction, in about half of the sta- Jurisdiction over the roads is vesttes of the union, comprising the ed in, first country boroughs; New England States, New York. 2nd, the county councils; 3rd, the Pennsylvania, New Jersey, Dela- urban district councils: 4th, the war, Maryland, Virginia, West Vir- rural district councils. The county giaia, Ohio, Michigan, Illinois, Wis- boroughs are certain large towns sas, California and Washington, entitling them to the privilege of These states have adopted in princi- self-government. In these the mainple or practice, or both, the system tenance of the highways devolves states, notably Kansas, Missouri county councils. and West Virginia, have provided of these states, appropriations have been made from the state treasuries, or the aid of the state convict force has been given toward carrying on road work throughout the various counties. It is not possible in a short pa-

per to enter into a discussion of the various system of state aid in effect in this country. Suffice it to say that the principle of state aid and supervision constitutes the germ of the only road administration which has proven successful in other countries.

This movement is gaining headway at a very rapid rate, and, when we consider that it has been little more than a decade and a half since its inception, the fact that half of the states have adopted it in principle and have actually expended from state treasuries considerably over \$56,000,000, we may well

and connecting remote villages and the continued care of the highways.

French Road Figures.

careful calculations.

The English Roads.

England,-There are at the present time 149,759 miles of road in England, from which the annual examounted to \$78,039,000.1t is,therefore, evident that the annual expenditure per mile of road amounts to about \$520. In view of the fact that most of the principle roads of England have already been constructed would appear to be devoted in a large measure to maintenance. It would seem that a system which requires an annual outlay of \$520 per mile for the entire milage must be ineffective and costly. The ex-

planation of this is found perhaps in the fact that in England the Road administration has either maintenance of the public highways consin, Minnesota, Missouri, Kan- which hold charters from the crown of centralizing under a state high- entirely upon the borough of town General Analysis-It is apparent

Revenues are provided by district maintenance. England is the most for skilled supervision in the coun- taxes except for the main roads, striking example of extreme localities, through the appointment of for the maintenance of which a zation, and it is a significant fact county highway engineers. In most county levy is made. The national that England is also the most strik-

groups of houses with the more im-portant roads. The technical supervision, however, is exercised by the road masters C. D. RAY, of the state force.

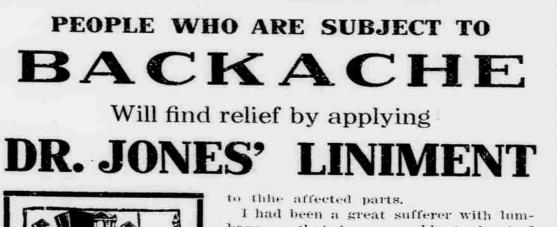
Strict provisions are made requiring skill and special knowledge

respective borders. The roads are classified into state roads-built and maintained at the expense of the respective cantons; community roads-built and maintained by the communities; and side, or auxilas, connecting main lines of state or community roads.

Each canton has at the head of its road system and engineer with capable assistants. In the canton of St. Gall, which may be taken as representative, there are under the control of the engineers five inspectors, or road masters, who are assigned to certain districts in the canton. The engineers and their assistants must have an academic education, and possess a diploma from the Polytechnic Institute.While the road masters are required to have a good technical education.

Conclusion Drawn.

way department the conduct of all council. In counties, the mainten- from the foregoing that while the or part of the road work of the ance of the highways devolves upon units of administration in European state, thereby securing uniformity urban councils in the urban districts countries range all the way from in methods, economy in administra- and rural councils in the rural dis- the localism of England to the hightion, and skill in supervision. In tricts. The only exception to the ly centralized system of France, some of the state highway depart- control of the urban and rural dis- through varying degrees, skilled suments, the work is educational and trict councils is in the case of main pervision is provided by all of the investigative, with a view to ulti- roads which are highways between systems, as well as an ample cash mately giving these departments ad- great towns, and the maintenance revenue sufficient to enable the ministrative powers. Some of the of these roads devolves upon the cagineers to carry out adequately their plans for improvement and



bago so that I was unable to bend, I had to get down on my knees when reaching for anything. A friend recommended Dr. Jones' Liniment and the tle cured me.

first application gave relief. One bot_

before road officials are appointed. ing example of lack of uniformity construction, is that of France, ad- for maintenance. Certainly the in-Little Switzerland's Method. in road work and of excessive ex- mittedly the most highly centrali- ference must be plain that central-Switzerland. The road system penditure in proportion to mileage, zed of all the road systems. France, ization makes for economy and efof Switzerland is local in character. It is also significant that the most with a total mileage of about 2 1-3 ficiency in the administration of the the various cantons having juris- perfect road system conceded to be times that of England, expends public roads. diction over the roads within their such by all authorities on highway about the same amount annually

(continued on page 7).

Oxford, N. C.



