## Good Road Work United States Government is Doing

On the corner of Fourteenth and B streets, southwest, just opposite the bureau of engraving and printing, where Uncle-Sam's money is made, and across the way from the new Agricultural department, where the scientists are making new plans for the farmer, stands a building which has much to do with the United States of the future. It is not connected with the Department of Commerce and Labor, but it affects every merchant and every one who works with his hands. It affects the factories, the farms, and, in short, every man, woman and child in the country. It is the office of public roads, where Uncle Sam is planwing how to better our highways. It is not an automobile institution. It is working for the plain people and its motto is good roads from the farm to the market. Such roads will cut down the prices of all farm products. They should reduce the cost of living and put money into our pockets.

Uncle Sam's Roadmaster. Have you any idea how much we lose from bad roads? The scientists estimate that the cost is over \$2,060,000 a day, or, in round numbers, about \$300,600,600 s year. I have had a long talk with Logan Waller Page, who has charge of this road work, and who perhaps knows more about our roads than any other man in the country. He is a civil engineer. who graduated at Harvard a decade or so ago, and who for a time acted as geologist and director of the testing laboratory of the Lawrence scientific school there. He was on the Massachusetts highway commission, and then became chief of the division of tests in the Department of Agriculture, after which he was made the director of the United States office of public roads. The improvement of the roads practically began with him, and the great work that is now

Our Highways vs. Europe's. According to Mr. Page we have about the worst roads of any civilized country on earth. Europe is gridironed with magnificent highways, and in France, Germany and England one can ride for miles without striking a stone or puddle. Said Mr. Page:

golde on is under his management.

"The cost of hauling over our country reads is now about 23 cents per ton to whole industrial system." the mile. In the European countries as long as eighteen years ago the cost had been reduced to 10 cents, and it is much lower today. On some of the roads going into London, by the motor cars now where on the continent for from onehalf to one-third its cost in the United

A Saving of Millions.

roads handled more than 800,000,000 tons cent can be called first class." of freight which originated on their reto and from the cars. A great deal of it Page?" was made up of the products of the farm cost of hauling in Europe, and the sav-

would be \$250,000,000. We have more than 25,000,000 draft animals, which are worth more than \$2,000,have 500,000 farm wagons manufactured sch year. The wear and tear upon them runs high into the millions

Quick Transit and High Prices.

"And then look at the money which road improvement?" I asked. farmer makes by getting his crops the market on time. Wheat and cothave rapid changes of prices. / In hel. If the man got his grain to the sarket while the prices were high he lid well, but if the bad roads kept mm back he had to take a low figure.

"This loss from bad roads prevails all over the country, but especially in the with. I have just returned from a long ffip through that region and have made study of some of the conditions. Let show you what good roads would do corn and cotton, which, together with eco, are the staple crops of the The southern roads are worse than those of other parts of the country, and the average cost of hauling is, refore, far more. The average cost of taking corn to the station the United sates over is about 7 cents per hundred, thite in eleven of the southern states is more than 15 cents per hundred. se eleven states produced last year ,000,000 bushels of corn, and if it had en hauled to the market the total fleight cost would have been over \$11,-000,000. Now, suppose that four-fifths of this corn were consumed on the farms, and that only 150,000,000 bushels were as pimples, blotches, liver apots, moth ed. in that case the cost of hauling smid have been more than \$14,000,000, nd if it could have been hauled as cheaply as in other states of the union -half of that amount, or more than 17,000,000, would have been the saving or be corn haul alone.

What Bad Bonds Mean to Cotton. The loss on the cutton crop is very outh greater," continued Mr. Page. "At 15 cents per 100 the cost of hauling is about 50 cents per bale, and as the averana distance each load is taken is about eleven miles, the time consumed is one it costs about \$2.50 to get each load to the market. The cotton crop of last year wan just under 12,000,000 bales, and to make a long story short we figure that the transportation cost of taking it to the sinnery and then to the railroad, in cisding the soot of hauling the seed, was about \$10,000,000. If the roads were as good as the average this sum would be cut down one-half, making a saving of \$2,000.000. But this is in the south. Simliar conditions prevail in many parts of the north, and altogether the loss on our



LOGAN WALLER PAGE

make plans for the construction, main

Uncle Sam's Roadways.

in use, it is less than 4 cents, and by gether something like 2,500,000 miles of the minister of public works, and if any wagon freight can be hauled almost any- roads of one kind or another. We have part of the system is wrong he knows however, is of a character not worthy for the whole United States. "Can you give me some idea of the of the name road. Some of it is little rate, the roads of every state and county saving that good roads would bring?" | better than a rock pile, and others are should be under competent engineers, ex-"Not accurately," replied Mr. Page, wide tracks through ditches and swamps, perienced in road construction and mainbut I can show you some figures which Of the whole only seven miles in each tenance. These men should have auwill convince you that it will run into 100 can be said to have any improve thority to make the plans for the roads, the hundreds of millions of dollars. Ac- ments whatever, and on the most of it and to improve them subject to the dicording to the report of the Interstate the improvements are such as to be un- rections of the higher authorities, and Commerce commission in 1906, our rail- worthy of note. Altogether not 2 per they should be paid enough so that they

spective lines. All this had to be taken deal as to improving our roads, Mr. many of the states, and in those coun-

"So we are, but a vast amount of the make better roads." and the forests, and it is estimated that money spent does no permanent good. least 200,000,000 tons of it had a haul The ordinary way of handling the roads nine miles at a cost of 23 cents a is through a road superintendent or super-That bill alone would represent visor, who is usually a politician and wagon freight bill in half, or to 11% digging out the weeds from the sides and This gives unskilled and irresponsible to the fruit crop is enormous, and are contracting for highway improveit is so with every crop of the farmer. ment. First a gravel road may be made Take the wear and tear on the horses. and the contractor will make his profit off that. Then another vote of the people may change the gravel to macadam. 600,000. Better the roads and the work could and a third tearing up may change it to be done with half the number, making brick. Millions of dollars are now being a saving of \$1,000,000,000 in capital. We appropriated for roadways by the various counties and states, but in many cases the money is being unwisely spent.' How Highways Should Be Managed.

"What would be the best system of

"If we could have a general road organization such as that of some of the countries of Europe it would create a 1907 the range of wheat at Minneapolis revolution in our public highways. Take from 76 cents to \$1.19 per bushel, France, for instance. Its roads are all d there was a difference in the selling under the department of public works, prices of corn at Chicago of 24 cents per at the head of which is a cabinet minis-

> How to Absorb An Old Complexion

(From Popular Monthly.) A girl signing herself "Discouraged," writes she has "tried everything" for her "coarse, borrid, muddy complexion" and asks, "Is there no really effective remedy?"

Doctoring your complexion with stuff that comes out of jars and bottles is liable to make it more unsightly. The only sure way to rid yourself of a bad complexion is to remove it-take off the offensive skin. Ordinary mercolized wax, securable at your druggist's, will do this. Apply at night, as you would cold cream; wash off in the morning The wax absorbs the dead and dying outer skin, revealing the clear, soft, healthy and beautiful skin underneath. Naturally all surface defects go, too, patches, freckles and blackheads. The treatment causes no discomfort. one can tell you are using it, the old skin coming off so gradually.-Adv.



day. The average load is a little more than three bales or 1,700 pounds, so that **FERULLO** and His Famous Band at Land Show Today and All Week

ganization and each district its road employes down to the road cantoneer who has charge of two or three miles of road-"What is the extent of our roadways?" way, for which he alone is responsible. "I suppose you mean the United States The system is such that every road in over," said Mr. Page. "We have allo- France is under the direct control of enough altogether if placed end to end, Just who should remedy it and who is to reach 100 times around the earth and responsible. Some such organization have some to spare. Much of this length, might be made in the various states, or can devote their entire time to the work. "But I thought we were doing a great Such engineers are now employed in ties, which are bonding themselves to

Government Road Work. "What kind of roads does your office make?"

re than \$422,000,000, and other freights who knows nothing about roads. In many perimental roads here and there over the adapted to the country which applies for fund. Alabama has made extensive apand hauling would run the sum to \$500,- cases he patches up the highways in front country, to show the people what good them. 600,000 or over. Now suppose we cut the of the farms of his principal constituents. roads are and how they should improve cents a ton, which is still far above the throwing them to the center. In many have built in the neighborhood of 300 how roads should be made, and to show places the road taxes are paid in labor. such roads in thirty-four different states, them the importance of good roads. We These roads are of the various kinds best are now equipping a certain number of Indeed, it is impossible to overesti- workmen, and in other places the roads suited to the several localities. Some are cars with models of roads and specimens mate our loss by bad roads," continued are let out by contract, which often of macadam, some are of brick, some of of road materials as well as of bridges, "The Fruit Growers' Asso- means graft. In some of our towns the gravel or sand-clay and burnt-clay, while culverts and other such things. These clation of Oregon lost in one year by streets have been torn up and relaid others are of shell and others are ofled cars will be sent over the country, stopdamaged fruit from the Willamette val- again and again, and the same will be and cement roads. In this work the gov- ping here and there to instruct the peoowing to bad roads, \$300,000. The the case with roads of the counties which ernment furnishes the engineering su- ple as to what good roads are gird how pervision, and prepares the plans, speci- they should be made. They will be dition to this we test road materials and belt.

of the colleges who have passed our ex- the Alabama appropriation for roads aminations. After working with us a comes from the convict labor fund. I see short time they are in great demand over no reason why convicts should not be the country, where road improvement is worked on the roads. In such cases they now going on. Many of them are em- do not compete with free labor as in the ployed by the states or by cities and prison factories, and the open-air work counties, where the salaries are larger should be healthy." than those paid by the government." What the States Are Doing,

The conversation here turned to the work of road improvement now going on and the material at hand. It is cheaper throughout the states, when Mr. Page to build good roads in the south than

half of the states of the union have throughout the year. The most of the adopted the principle of giving state aid southern soil is good for the purpose. to road building. New York has author- There is plenty of gravel and sand-clay, ized the issuance sof \$50,000,000, to be and we can make macadam roads there spent at the rate of \$5,000,000 a year, cheaper than in the north. In Louisiana the various counties to supply an equal a macadam road can be made for \$1,800 a amount. A great deal of such im- mile, and the average cost in nine differprovement is going on in the south, ent states of the south is less than \$4,000 Virginia has appropriated \$250,000 per mile. In Butler county, Ohio, year to be spent under the state high- where they are now making bituminous way department, and Louisiana will levy macadam roads, the cost is \$7,000 a mile, a tax of one-fourth of a mili on all of while in Massachusetts the average mac-"We are making object lesson and ex. tenance and administration of roads her taxable property as a highway adam costs \$8,000 per mile. The averpropriations, and Maryland will spend York is more than \$9,000, and Ohio, this year \$1,250,000 in the same way, which has many brick roads, has re-At the present time the sixteen southern cently let out a contract for the constates have available for road expenses struction of five miles of such roads near about \$40,000,000, which is just double Ravenna, which will cost altogether more the amount devoted to such purposes in than \$70,000 or over \$14,000 per mile. 1904. Indeed, the south has become highly Good roads cost all the way from a few interested in improving its roads,"

Working the Convicts, "I understand that many of the southern states are working their roads with

"Yes, and I think with great profit. In fications and estimates of the work. The handled somewhat after the method of Virginia the state convicts are employed through his laboratories. The bureau has ocality pays the other expenses. In ad- the grain exhibition cars of the corn in road building, and the supervising en- a large force of chemists, engineers and gineers say that the convict labor is even other scientists, who are planning out and advise the people as to what roads are "In addition to these things, the office more effective than paid labor. Georgia testing materials for the roads of the the best for their special localities. We of public roads is a training school for has nearly 5,000 prisoners at work on its country. They are always experiment-

What Good Roads Cost.

"What does a good road cost?" I asked. "That depends much on the location in the north, for the southern wages are "Within the last fifteen years nearly lower and the working period is longer hundred to \$10,000 or \$15,000 per mile, according to their character and the materials of which they are constructed."

Roads of Oil and Cement.

Before leaving the office of public roads I took a walk with Mr. Page

many other things have made valuable discoveries as to the use of oil and cement on the roads. The ideal road of the future will be without dust, and some model roads now constructed are bound together with bitumen and other materials which make them practically indestructible. One of the most valuable discoveries of recent years as to roads and all sorts of masonry is an invention of Mr. Page, which has been patented by him, but which is given to the public without charge. This is a process of mixing a little oil with concrete or cement which makes it absolutely waterproof. Upon such concrete the water stands in globules as it does upon glass, and if the cement mixture is whitewashed on bricks they become waterproof. FRANK G. CARPENTER.

SOME SHOW FOR BACHELORS

Fifty is Just the Right Age for a Bridegroom, a Woman Says.

An interesting and unusual estimate of the proper age for matrimony is that advanced by Mrs. Vivian, head and founder of the National Society of the Daughters of California. The happlest and most successful marriages, she says, are those between the man of 50 and the woman of 35. At that age of discretion, she claims, the male has become more mellow and tolerant as well as more solvent, On the other hand she intimates that a girl of 20 is much harder to get along with than to get along without, and that there ought to be laws prohibiting people marrying before they are 30 years old.

We do not know what authority the Daughters of California have in such matters, comments Success, but we fancy that improvident young people will for the present continue to rush headlong into matrimony at assorted tender ages. When Mrs. Vivian's theory gets into working order the bachelor entering the bald, corpulent age of 50 may as well leave hope behind. If Dr. Osler doesn't get him the Daughters of California will.

## ECZEMA ITCHED SO COULDN'T STAND IT

Began by Little Pimples. Scratched Until Blood Came. Kept Getting Worse. Could Not Sleep Nights. Used Cuticura Soap and Ointment and the First Day They Relieved Itching. In 3 Weeks Eczema Cured.

"I suffered with eczema on my neck for about six months, beginning by little pim-ples breaking out. I kept scratching till the blood came. It kept scratching till the



oles breaking out. I kept scratching till the blood came. It kept geiting worse, I couldn's sleep nights any more. It sleep nights any more. It kept litching for about a month, then I went to a doctor and got some liquid to take. It seemed as if I was going to get better. The it ch in g stopped for about three days, but when it started again, was even worse than before. The exaema itched so badly I couldn's stand it any more. I went to a doctor and he

adies in the sause, so I decided to try them. I had been using Cuticura Soap, so I got me a box of Cuticura Ointment, and washed off the affected part with Cuticura Soap three times a day, and then put the Cuticura Ointment on. The first day I put it on, is relieved me of liching so I could sleep all that night. It took ab I a week, then I could see the scab come off. I kept the treatment up for three weeks, and my eczema was cured.
"My brother sot his face burned with sun-

was cured.

"My brother got his face burned with gunpowder, and he used Cuticura Soap and Cintment. The people all thought he would have scars, but you can't see that he ever had his fare burned. It was simply awful to look at be are the Cuticura Remedies (Soap and Ointment) cured it." (Signed) Miss Elizabeth Gehrkt, Forrest City, Ark., Oct. 16, 1910.

Although Cuticura Soa and Cuticura Ointment are sold by druggists and dealers everywhere, a liberal sample of each, with \$2-page booklet on the skin and hair, will be sent, post-free, on application to Foster Drug & Chem. Corp., Dept. 17B, Boston.



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