Travel and Transportation in Biggest South American Republic

COUNTRY ON EVE OF GREAT BUILDING ERA

Has Not One-Tweflth of the Mileage of the United States. Territory Greater Than That of This Country and Has Far More Good Land in Proportion Than Here

The Great Chute to Santos-Strange catures of Travel in Tropical Mountains-On the Government Railways—A Big Company Managed By Americans—ln the Heart of the Amazon Valley. (Copyright, 1915, by Frank G. Carpen-

WASHINGTON, D. C. During the past few months I have traveled over the most important of the railway systems of Brazil. I have seen the best part of the trunk line that goes from Rio de Janeiro to Montevideo, and have gone north, west and south over the roads that radiate from the city of Sao Paulo. I went from Santes to Sao Paulo over a line that produces more revenue per mile than any other on the western hemisphere It is only 124 miles long, but its divi-dends on its common stock are 14 per cent, and it pays a good rate on the preferred stock and bonds. That rail yay is one of the best managed in all Bouth America. There are few roads better built, and few that have cost so much or paid so well. The line is a broad gauge, and its average cost, including the terminals, has been more than 415,000 pages with than \$150,000 per mile. The gross in-dome now approximates \$40,000 a mile, and the traffic is bound to increase.

The Santo Sao Paule road is the great ceffee chute from the plantations to the see. Along the Atlantic shores of Brazil runs a range of mountains two or three thousand feet high. Back of these mountains are great plateaus, the products of which have to be carried down to the seaconst. It is only here and there that there are passes in the mountains, and it is where those passes occur that the chief railroads are. They have been built from the norts to the interior to built from the ports to the interior to earry out the crops. This was the rea-son for the Sao Paule railway. It was to take the coffee down to the steam ers, and today. I venture, it transports perhaps half of all the coffee consumed by the world.

During the past season the road has been carrying from ten to twelve mil-lien pounds of coffee a day, and that down grades that render ordinary railreading out of the question. The drop from the plateau to the sea is about 3,000 feet, and the most of this drop eccurs within a distance of less than six miles. It is only on the plateaus and coast levels that ordinary lecomotives and ordinary trains can be used. The great climb is made in cars used. The great climb is many in that run on cables from station to sta-tion much like the old cable street railways of the United States.

I took the train at Santos and was carried over a flat plain to the foot of the mountains, where the cars were at tached to the cables. We crossed a storp ancent over four planes of equal length, the gradients being of 8 or 10 per cent to the mile. When we arrived at the mountains the lecometive was was supported and guided by I wheels placed between the rails,

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fail, and there were brakes, automatic and otherwise, that gave us additional security. There were engine houses at the four stations and a car house at the bottom. I asked as to the maximum weight of the trains that were hauled up the incline and was told that it was about 146 tons. The usual train consists of six cars. These weight 114 would girdle the world about ten times. tons and the locomotive brake weighs Our first road was built in 1830, and thirty one tons. The time taken on the incline is eight minutes, and the ordinary day's service provides for about 5,000 tons up and down. The road is now double tracked and there are plans for making a new road along the same

I venture there is no American trunk line that has better improvements than the Sao Paulo railway, and none which has cost so much in such a short dis-tance. The grade is so steep and the rainfall so heavy that the roadway has been lined with drains and gutters from bottom to top. The gutters are of brick. and they are as beautifully constructed as those of a city park. The bricks are covered with tar to prevent the vegetation f.om springing up between them.
The concrete work is equal to that of
the Panama canal. In places the streams, flowing down the mountains, are carried under the track in pipes or is open work of concrete; and here and there long terraces of stone uphold the embankments. The culverts are as well finished as though they were in the streets of a city, and there are abutments and waterspouts that look

The terminals of the road are of the same nature. The station at Sao Paulo is one of the finest in South America. The cars are finished like the Pullmans of the United States, and the engines are polished as though they were

The ride over the Sao Paulo railway is through some of the most beautiful scenery of the tropics. Leaving Santos en your way to the mountains you at the mountains the lecomotive was pass through a dense jungle of vegeta-taken of and the cars hauled up by a tion like that at the foot of the Hima-reps consisting of six strands of steel layas. Everything is intensely tropi-ure wrapped about a hemp cord. This cannot see more than twenty feet from the track. Here and there tall paims and it was moved by engines at the rise above the other growth, and there several stations. Behind our train was a special locomotive to prevent our varieties. The orchids seem to choose speedy descent if the wire ropes should the dead trees as their homes. They wrap themselves around the gray limbs and make then green again. The same conditions obtain all the way up the On my way I saw millions of orchids and I could have gotten a ragon load at any stop within a few yards of the track. They were free and I could have had all I wished for the asking. Some of the trees are bent lown with the weight of the orchids. The trunks and branches are ground togethed with creepers and vines.
I went from Sao Paulo to Rio de Ja-

neiro over the Contral railway of Brazil. This read is owned by the federal govrament. It is about 1,300 miles long. and it carries byer 25,000,000 passengers a year. It goes northward from the capital up the Rio Sao Francisco to Pirapora, a distance of about 600 miles, and

washington, and the trip takes twice as long and cost twice as much. Leaving Sao Paulo you travel all the way through the highlands. You pass through the highlands. You pass through the highlands with trees, and in places the scenery is not unlike the rolling parts of Ohio and Pennsylvands in the distance the trees look much fire ours, but when you come closer you see palms and bushoos and closer you see palms and bamboos and

other tropical growth. The more level land is devoted to farming. Here there are feaced fields with gates leading into them. The farmhouses are of brick covered with stuceo. They are mostly small, those of the common people being of only one story and not more than fifteen feet square. There are many ant hills. At first you think they are hillocks, made in the course of cultivation. They rise to a height of two and three fect and

are often as regular as though they were made with the plow and the boe. Now and then the railway crosses a coffee plantation. The trees cover the sides of the hills; their leaves are of such a bright green that they seem to be varnished. The plants grow well

and produce abundantly.

That part of Brazil is well watered The road creases many streams. The air is full of meisture, and clouds hang low over the mountains and nestle in the laps of the hills. The scenary is beautiful.

peantiful.

Much of the country is devoted to pasture, and entile and nules are seen feeding in grans that tickles their helities. There are great fields of corn and now and then one of grain where the

which goes through the central portion shocks stand up as in the states at harvest time. The town houses have gardens surrounding them. There are orchards of oranges and lemons as well

as of peaches and pears.

Along the track you pass now and
Along the track you pass now and then clumps of bamboo. There are oft-The crowds that come to the trains are typically Brazilian. They are dark-faced and sallow. Some are negroes, and on the whole the crowd is not unlike that at any depot in our southern states. The most of the people dress in struct the great general staff of the

the rolling stock comes from our coun well as military men. The try, and the cars have their seats on Premier's reply that both sides of aisles like our cars at the size and effechome. The entrances are at the ends, tiveness of the staff and there is often a washroom in the was being gradually middle. The engines are Baldwins im increased did not ported from Philadelphia. On the train intircly satisfy the to his my conductor was a negro as extremists. Ger-black as any you will find in the Konge. many's efficiency He spoke English as well as Portuguese,

and was very polite.

My ticket from Rio to Sao Paulo cost to its general me over 4 cents a mile. The amount staff, as no one was over 32,000 reis, or a little less than here denies. But the \$10. This did not include my sleeper general staff is an in-or baggage. The sleeping car rates are tegral part of Geror baggage. The sleeping car rates are about \$6 per night, and my trunk, which weighed 150 pounds, was charged for at the rate of \$6. No baggage is carried free in Brazil. We had our meals on the train. They were served table d'hote style, at \$1.33 a plate, with an extra price for hard drinks. At most of the stations are restaurants, and at almost every stop coffee is served. The coffee comes in cups the size of half an legg shell. Each cup costs 2 cents.

is greater than the United States proper, and it has far more good land in pro-portion to its size. Acre for acre, it portion to its size. Acre for acre, it tions were given to Field Marshal will produce more food than the United Six John French, General Ian Hamil States, and, cultivated intensively, it ton, and the other expedition comcould feed and clothe the whole world. Nevertheless, it has only about 18,000 miles of railways is operation, and something like 2,000 more in projection or construction. It has not one twelfth as much truck as we have, and it is at the beginning of its railway era.

The United States is already grid-ironed with tracks, and we have, all told, a mileage of about 250,000 the first one in Brazil was not opened to traffic until twenty years later. most of the railways of Brazil have been constructed within the past ten years, and from now on they will rapidly grow. At the time the European war broke out there were a number of new lines under way that have since been stopped for lack of funds.

In 1918, Brasil hought about \$9,000,000 worth of freight cars of the United States and Europe. Last year she bought only \$1,000,000 worth, and this year her purchases will be practically nothing. She imported \$11,000,000 worth of steel rails in 1914, and she is now buying nowe. Some of her large enter-prises, for instance, the Brazil Railway of railroad construction

At the close of the war the roads will e pushed just as rapidly as money can found to pay for the construction Until new the capital for the public works of this continent has come from Europe. A large part has been from England, and another large part from France and Belginm. The Sao Paulo road, of which I have written, is owned n London, and the Brazil Railway Company, although it is managed by citizens of the United States, depends almost entirely upon Franco-Belgium capital. This company has a capital of \$50,000,000. It is incorporated in the State of Maine. The Germans own a short railroad in Santa Catharina, and the roads operating in the central states have been financed for the most part by Brazilians.

As it is now, the government owns or leases about 7,000 miles of the present system, and many of the other roads have been built by the aid of government guarantees an interest on onds issued for constructing the lines and in others it gives also concession The Brazil Railway Company has received a grant of some millions of acres toward the construction of new lines in southern Brazil, and it has now under lease or in actual ownership more than a half million sere of forests, six million acres of possible farms and more than eight million acres said to be excellent pasture.

The Brazil Railway Company is es perially interesting to the United States. It works under an American charter and its president is Mr. Pereival Farquhar, of New York. The finanrial complications created by the war have thrown the company temporarily into the hands of receivers, but it is believed that it will weather the storm and yet be one of the great railway systems of the hemisphere. It is now the largest system in Brazil and one of the largest in South America. It consists of a consolidation of a number of from Rio southward to Sao Paulo, form the older railroads of Brazil, together ing the trunk line between the two chief with many extensions that have been cities of the republic.

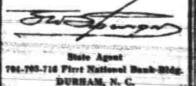
The distance from Sao Paule to Rio porated in 1906. Its main track als about as far as from New York to ready covers parts of the rich states of

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Ivor Herbert asked Premier Asquith in the House of Commons whether any steps had yet been taken to recon army, he expressed the popular im-patience of the country over this ques-The travel is comfortable. Much of tion, which is worrying civilians

> in the war is largely traceable

small scope in peace times. Brazil is one of the great railway has been considerable looseness in countries of the future. Its territory the British way of managing campaigns, as critics point out. It is said that only the most general instrucmanders. They were told little cise than to inflict the greatest possible damage on the enemy by means that appeared best to their judgment. The policy of the British staff here

tofore has been, in accord with Brit ish tradition and British prejudice, to give all possible latitude to the commander, trusting him either to succeed by his genius, or at least to muddle through. Wellington's comparison of his own campaign to an improvised harness made of rope, easy to patch up, and Bluecher's to a per-fect set of harness which depends for success on not breaking, still holds

vocated a general staff on the Teu-tonic plan for Great Britain, just as they have fought for conscription. Their professional bias leads them to believe that the empire's safety and power demands the military system. But the mass of the people, on the contrary, are content with a small army of subordinate influence in time of peace, backed by a militia system. They accept the staff idea either as Company, have gone into the hands of a war measure or because they have receivers, and it will need the advent only a vagu idea of its meaning. At of peace abroad to rejuvenate the era any rate, they believe it will prevent more blunders of the Dardan

> not assume the power and influence of the German by a considerable mar-gia, it will undenbtedly bring about a greater co-ordination of one branch of the service with another, and of each expedition with the armire of the allies. No important movements will be under-taken on snap judgment, like the se-called Gallipel: "gamble," and the individual judgment of commanders will be subordinated to general plans of tion worked out with the allies

more than a thousand miles. The com pany also owns the Madeira-Mamor railroad in the wilds of the Uppe pening up of Paraguay will be accombe developed by it.

roperties associated with the Brazil failway Company is the Madeira and Mamore railway. This road is located far in the backwoods of Brazil. It is situated thousands of miles up the Amazon, in the heart of a wilderness that produces a large part of the rub-ber of the world. It is only 236 miles long, but its location is such that it opens up thousands of miles of river navigation. It goes around the falls of the Madeira river, into which flow the three mighty streams known as the Mamore, Beni and the Madre de Dios, all of which originate on the easters slopes of the Andes, and are navigable for long distances above the falls.

into the Amazon, and thence a thousand miles down the Amnzon out to the sea This road is now completed, and its arnings in 1913 were more than \$1,

the construction, and they have had a large number of American dectors in At the beginning of the work about

less than 8 per cent, and a new regime of tropical essitation was inaugurated. The government is anxious to extend the road from its southern terminus to Liberalta on the Beni river, and thus open a trade route of great importance to Bolivia. The latter republic has authorized the building of a railway from its capital at La Pas to some point on the Bent, and the two roads will give an eastern outlet for the trade of the high platean of the Andra. Bolivia has other plans for the building of malroads through its eastern testifary, which is union with those of Brazil will result in opening up the wast undeveloped and to a large on tent uncertifier and to a large on the Andra from Argentina to Colombia.

Figanic U. Campun The.

true to a considerable extent, or did in the earlier stages of the war. Professional soldiers have long ad-

elles type.
While the general staff will probably

yans railway, which operates there and in Minas Gernes, having a leagth of Amazon, and it has projects to build lines into Matto Grosso and Paraguay, sponsors for the national highway from creating a vast system that will be of incalculable value to the republic. The North Carolina is much interested in which convicts are at work.

"It has been reported, however, that the Cocke county road commissioners are not work." plished by an extension of the present reads to the Iguazu Palls, and a conection there with the Central railway of Paraguay that now ends at Asunion. Other roads will be built into the great province of Matto Grosso, and all the rich states of southern Brazil will ville in the latter part of November and

Perhaps the most interesting of the

In the past the cargoes have been carried over the falls in large boats annod by crews of fifteen men each but the waters are so rough that many lives and much freight have been annualty lost. The railway will earry passeagers and freight around the falls and will thus give a new outlet from the Ander to the Atlantic. This will benefit not only Bolivia, but Matto Grouno as well. The boats will go from the fails down the Madeira river

700,900, although it, like the parent road, is in the hands of a receiver today. The Brazil Railway Company has erected hospitals in connection with

60 per cent of the laborers were taken down with fever, but toward the end the average sickness was reduced. the average sickness was reduced to less than 8 per cent, and a new regime

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OPEN EVENINGS

Col. Cameron Awaiting Cocke County's Action As To National Highway

Col. Bennehan Cameron, one of the where there is a fourteen mile gap to be improved. He has just received a elipping from the Knoxville Journal and Tribune which shows that that paper is urging Cocke county to co operate in the work. Col. Cameron was in Knoxmade a speech urging the improvement

Bonds have been voted. The sum of \$37,000 has been allotted to the Cocke county lap of the highway. But a division of opinion has arisen and it is proposed by some to use this money in completely improving a few miles. Col. Cameron and other advocates of the highway are asking that the whole four-teen miles beg raded so that it can be used. When he spoke in Knoxville advocating this plan he called for a show of hands on the part of those who favored his view of the matter and was gratified to find that every person present raised his hand in approval. Col. Cameron told his audience that it was up to Cocke county to keep the faith, that North Carolina was doing so and Tennessee could not afford to do less. Decision is with the Cocke county com

The uncompleted portions in North Carolina are about two miles in Madison county and five miles in McDowell coun ty, and the work of improving these

gaps is going on.
The article in the Knoxville Journal and Tribune, which was very gratifying to Col. Cameron, was as follows:
"One of the most important pieces of

road work now to be done in this state and one which would be worth thousands of dollars to Cocke county, Tennes-see, is the completion of what is probably the last gap of the road which will

connect the west and north with the for one of these counties to pick as the Carolinas. This is a fourteen mile stretch general scramble of all communities to with no passable connection through.

"Cocke county is expending \$37,000 on this road and if the road is made tpassable through to the state line it will be one fo the most traveled thoroughtfares in the South, as North Carolina will have her state highway finished from Hot Springs to Asheville by next sum mer, the only other incomplete gap to Asheville and eastern points being between Hot Springs and Marshall, on

which convicts are at work. this road in macadamizing part of this road as far as possible, which would probably take it only as far as Ded Rio. leaving the worst part between Del Rio and the state line still impassable, instead of grading it all through at once and macadamizing later. Consequently their decision in this matter is an im-Cocke county will get hundreds of tour-ists or none at all next summer, and possibly for several years.

"With the completion of hie eastern branch of the Dixie highway from Cincinnati and the Memphis to Bristol highway, both of which will be through to Knoxville will be anxious to get through the only route except that there is a chance of one through Greene county. there being a road now running from that county over which automobiles have made the trip into North Carolina near the Cocke county line. There has been some talk in Greene county of improving this road to get the tourist traffic in case the route through Cocke county is not made passable for antomobiles. There is a valuable plu mthere ready

between Newport and the state line get on the big through highways has where the new road from Hot Springs, proven that there is a second or the state is a second or the s where the new road from Hot Springs, proven that there is a general awaken-N. C., to hte Tennessee line now ends ing as to the great value to a community of the tourist traffic which not only leaves money where it passes, but ad vertises the place and raises property values as well.

"It remains to be seen whether or not Corke county will take advantage of her opportunity."

Utica Observer.

Perhaps banana meal will become a common article of diet. At may rate Kingston, Jamacia, has started into the business of making banana meal, and there the inh The town got to making banana meal because of bad conditions in the banana business. Not being able to dispose of all the bananas careful experiments ere undertaken in flour. It was discovered that 537 pounds of bananas made 138 pounds of meal. The wholesale price was put at 4 cents per pound.

The return is regarded as satisfactory.

The meal as a food is regarded with satisfaction when mixed with wheat flour. Cake and bread are made from the mixture, which is composed of the flour and meal in proportions of half and half, or in mixtures where some-what less than half of the banana flour is used. The banana meal, according to the American consul at Kingston, makes to the Carolinas by this route which is excellent ginger cakes and ginger bread As new foods are all the time being created, with greater or less success, perhaps banana meal will be one of the new ones. It has the advantage of being nutritious.

> Foreign cables report a group of Har-vard alumni gathered for its annual banquet in Paris on the night of the Harvard Yale football game at Cam-

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