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INTERNATIONAL UNION OF AMERICAN REPUBLICS

BULLETIN  
OF THE INTERNATIONAL UNION OF THE  
AMERICAN  
REPUBLICS

VOL. XXIX

Nos. 1-3

JULY-SEPTEMBER, 1909



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1909



INTERNATIONAL UNION OF AMERICAN REPUBLICS

BULLETIN  
OF THE INTERNATIONAL UNION OF THE  
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REPUBLICS

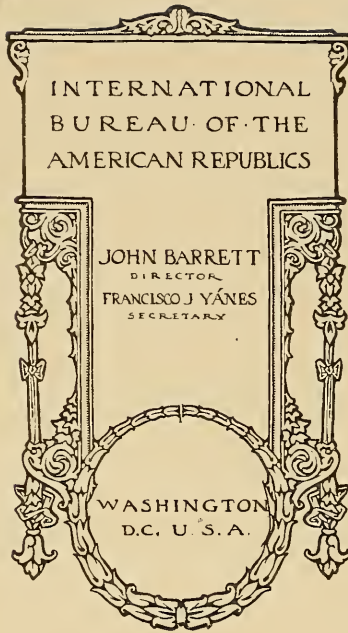
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1909

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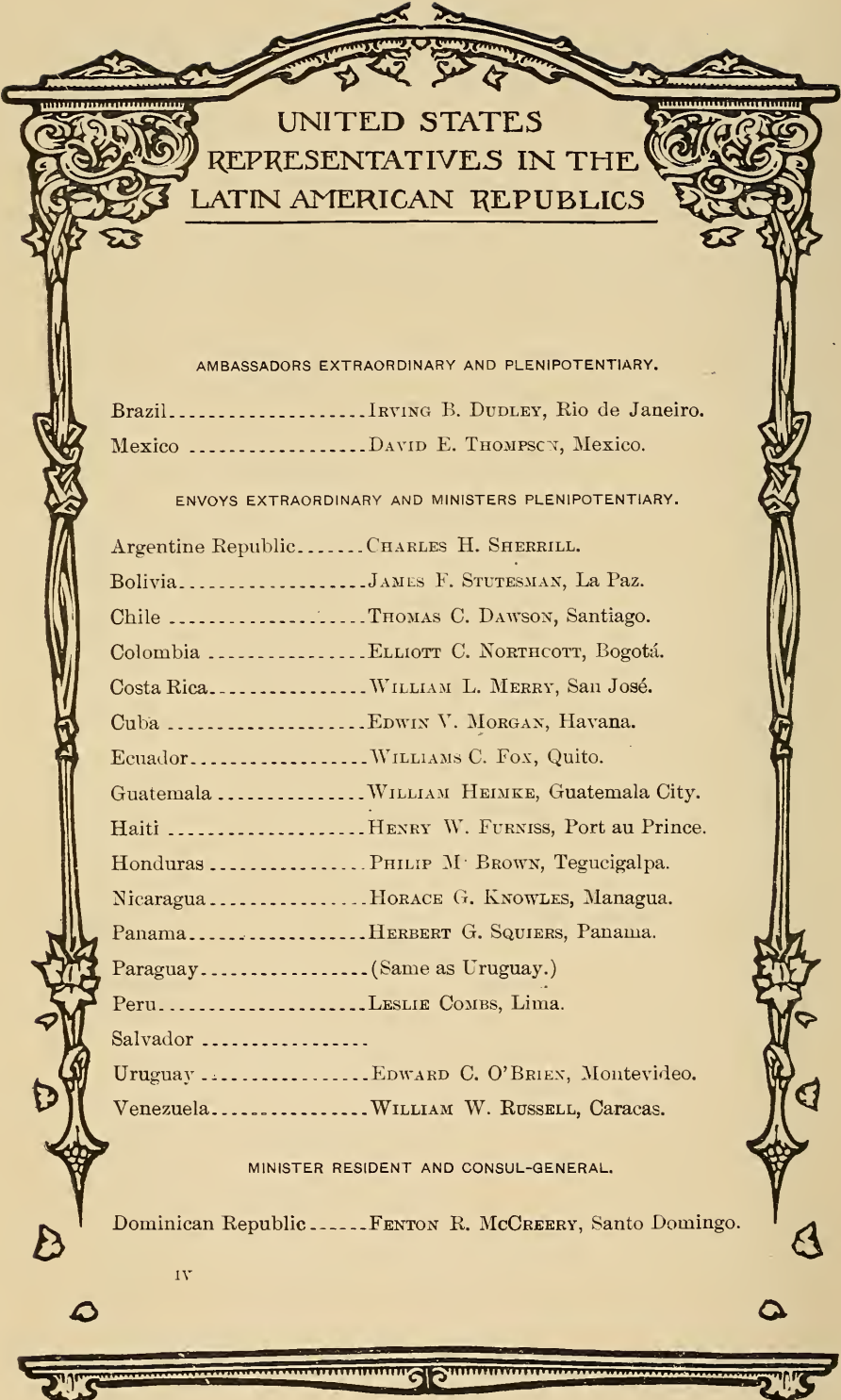
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[Paraguay has at present no representative on the Governing Board.]

<sup>a</sup>Absent.

III



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## METRIC WEIGHTS AND MEASURES.

### METRIC WEIGHTS.

Milligram ( $\frac{1}{1000}$  gram) equals 0.0154 grain.  
Centigram ( $\frac{1}{100}$  gram) equals 0.1543 grain.  
Decigram ( $\frac{1}{10}$  gram) equals 1.5432 grains.  
Gram equals 15.432 grains.  
Decagram (10 grams) equals 0.3527 ounce.  
Hectogram (100 grams) equals 3.5274 ounces.  
Kilogram (1,000 grams) equals 2.2046 pounds.  
Myriagram (10,000 grams) equals 22.046 pounds.  
Quintal (100,000 grams) equals 220.46 pounds.  
Millier or tonneau—ton (1,000,000 grams) equals 2,204.6 pounds.

### METRIC DRY MEASURE.

Milliliter ( $\frac{1}{1000}$  liter) equals 0.061 cubic inch.  
Centiliter ( $\frac{1}{100}$  liter) equals 0.6102 cubic inch.  
Deciliter ( $\frac{1}{10}$  liter) equals 6.1022 cubic inches.  
Liter equals 0.908 quart.  
Decaliter (10 liters) equals 9.08 quarts.  
Hectoliter (100 liters) equals 2.838 bushels.  
Kiloliter (1,000 liters) equals 1.308 cubic yards.

### METRIC LIQUID MEASURE.

Millimeter ( $\frac{1}{1000}$  liter) equals 0.27 fluid dram.  
Centiliter ( $\frac{1}{100}$  liter) equals 0.338 fluid ounce.  
Deciliter ( $\frac{1}{10}$  liter) equals 0.845 gill.  
Liter equals 1.0567 quarts.  
Decaliter (10 liters) equals 2.6417 gallons.  
Hectoliter (100 liters) equals 26.417 gallons.  
Kiloliter (1,000 liters) equals 264.17 gallons.

### METRIC MEASURES OF LENGTH.

Millimeter ( $\frac{1}{1000}$  meter) equals 0.0394 inch.  
Centimeter ( $\frac{1}{100}$  meter) equals 0.3937 inch.  
Decimeter ( $\frac{1}{10}$  meter) equals 3.937 inches.  
Meter equals 39.37 inches.  
Decameter (10 meters) equals 393.7 inches.  
Hectometer (100 meters) equals 328 feet 1 inch.  
Kilometer (1,000 meters) equals 0.62137 mile (3,280 feet 10 inches).  
Myriameter (10,000 meters) equals 6.2137 miles.)

### METRIC SURFACE MEASURE.

Centare (1 square meter) equals 1,550 square inches.  
Are (100 square meters) equals 119.6 square yards.  
Hectare (10,000 square meters) equals 2.471 acres.

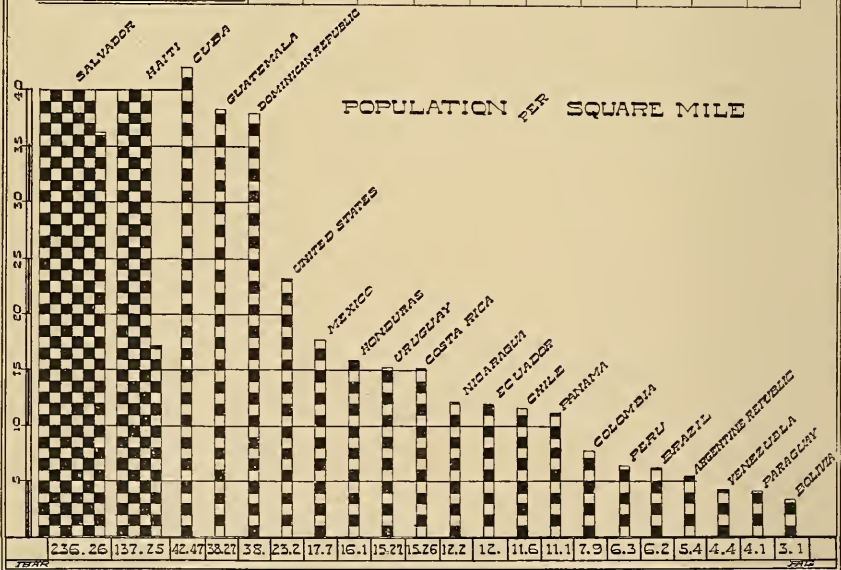
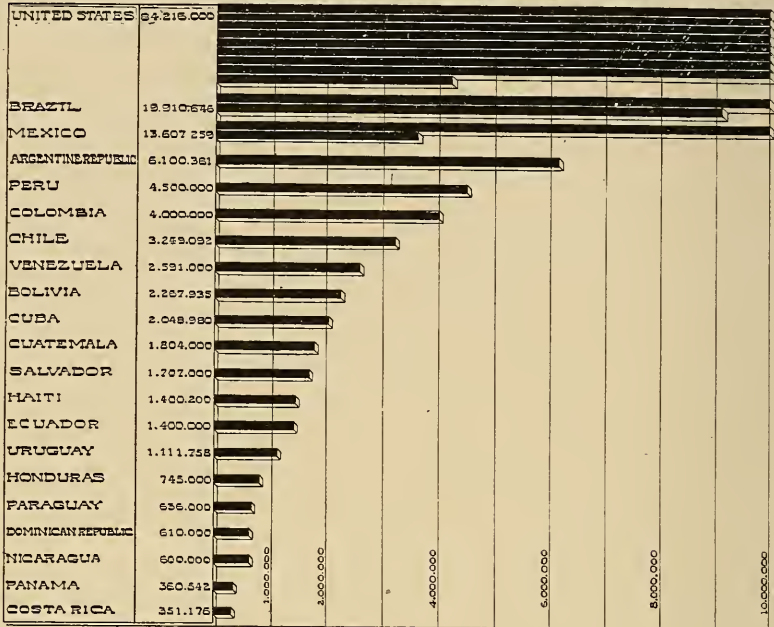
The metric system has been adopted by all of the twenty-one republics constituting the International Union of the American Republics.

## WEIGHTS AND MEASURES.

The following table gives the chief weights and measures in commercial use in Mexico and the republics of Central and South America, and their equivalents in the United States:

Denomination.	Where used.	United States equivalents.
Are.....	Metric.....	0.02471 acre.
Arobe.....	Paraguay.....	25 pounds.
Arroba (dry).....	Argentine Republic.....	25.3171 pounds.
Do.....	Brazil.....	32.38 pounds.
Do.....	Cuba.....	25.3664 pounds.
Do.....	Venezuela.....	25.4024 pounds.
Arroba (liquid).....	Cuba and Venezuela.....	4.263 gallons.
Barril.....	Argentine Republic and Mexico.....	20.0787 gallons.
Carga.....	Mexico and Salvador.....	300 pounds.
Centaro.....	Central America.....	4.2631 gallons.
Cuadra.....	Argentine Republic.....	4.2 acres.
Do.....	Paraguay.....	78.9 yards.
Do.....	Paraguay (square).....	8.077 square feet.
Do.....	Uruguay.....	2 acres (nearly).
Cubic meter.....	Metric.....	35.3 cubic feet.
Fanega (dry).....	Central America.....	4.263 bushels.
Do.....	Chile.....	2.575 bushels.
Do.....	Cuba.....	1.599 bushels.
Do.....	Mexico.....	1.54728 bushels.
Do.....	Uruguay (double).....	7.776 bushels.
Do.....	Uruguay (single).....	3.888 bushels.
Do.....	Venezuela.....	1.599 bushels.
Frasco.....	Argentine Republic.....	2.5096 quarts.
Do.....	Mexico.....	2.5 quarts.
Gram.....	Metric.....	15.432 grains.
Hectare.....	do.....	2.471 acres.
Hectoliter (dry).....	do.....	2.838 bushels.
Hectoliter (liquid).....	do.....	26.417 gallons.
Kilogram (kilo).....	do.....	2.2046 pounds.
Kilometer.....	do.....	0.621376 mile.
League (land).....	Paraguay.....	4.633 acres.
Libra.....	Argentine Republic.....	1.0127 pounds.
Do.....	Central America.....	1.043 pounds.
Do.....	Chile.....	1.014 pounds.
Do.....	Cuba.....	1.0161 pounds.
Do.....	Mexico.....	1.01465 pounds.
Do.....	Peru.....	1.0143 pounds.
Do.....	Uruguay.....	1.0143 pounds.
Do.....	Venezuela.....	1.0161 pounds.
Liter.....	Metric.....	1.0567 quarts.
Manzana.....	Costa Rica.....	1½ acres.
Marc.....	Bolivia.....	0.507 pound.
Meter.....	Metric.....	39.37 inches.
Pie.....	Argentine Republic.....	0.9478 foot.
Quintal.....	do.....	101.42 pounds.
Do.....	Brazil.....	130.06 pounds.
Do.....	Chile, Mexico, and Peru.....	101.61 pounds.
Do.....	Paraguay.....	100 pounds.
Do.....	Metric.....	220.46 pounds.
Suerte.....	Uruguay.....	2,700 cuadras. (See Cu- adra.)
Vara.....	Argentine Republic.....	34.1208 inches.
Do.....	Central America.....	33.874 inches.
Do.....	Chile and Peru.....	33.367 inches.
Do.....	Cuba.....	33.384 inches.
Do.....	Mexico.....	33 inches.
Do.....	Paraguay.....	34 inches.
Do.....	Venezuela.....	33.384 inches.

# POPULATION OF THE AMERICAN REPUBLICS








GENERAL JUAN VICENTE GOMEZ,  
PRESIDENT OF VENEZUELA.



# BULLETIN

OF THE INTERNATIONAL BUREAU OF THE AMERICAN REPUBLICS



VOL. XXIX.

JULY, 1909.

NO. 1.

THIS issue, the July number of the MONTHLY BULLETIN, is devoted exclusively to the carefully compiled annual review data, for the year 1908, covering the twenty Latin-American Republics of the International Union. The usual editorial comment, booknotes, magazine references, Latin-American notes, historical dates, and special articles are omitted to give space for this review. There was such a large demand last year for the corresponding résumé for 1907 that an extra effort has been put forth by the International Bureau to make the report for 1908 complete, succinct, and accurate. To review the material conditions of twenty nations is no small task, and the compilation must necessarily omit much of interest and value or exceed the inexorable limitations of space, but sufficient facts are included to answer the great majority of questions concerning Latin America which are continually sent to the Bureau from all parts of the world.

Some mistakes or errors may have been accidentally or unintentionally incorporated in the text, but these will be corrected in a subsequent issue if pointed out. The data, moreover, of some countries are much more comprehensive than of others, but this is no fault of the Bureau, for a special effort has been exerted to get the latest and fullest information from every country. Unfortunately, however, it has been so difficult to secure up-to-date reports from a few governments that the résumés thereof are not as timely and complete as might be wished.

Viewed as a whole, it is the best general survey of its kind of the Latin-American Republics which has yet been prepared by the Bureau, and the reader who wishes to be informed about the progress and material development of Pan-America will find in these pages much of real educational and practical value.

It is a source of regret that this review can not contain also a statement of the work of the International Bureau during 1908, as compared with that of 1907 and 1906. Notable facts in this connection are the remarkable growth of interest throughout the United States in Latin America; the great increase in the correspondence of the Bureau and in the demand for its publications; the marked improvement and popularity of the BULLETIN; and the large number of manufacturers, students, writers, statesmen, travelers, and men of all callings who are seeking an endless variety of information concerning these wonderful lands.

# LATIN AMERICA IN 1908

## A REVIEW

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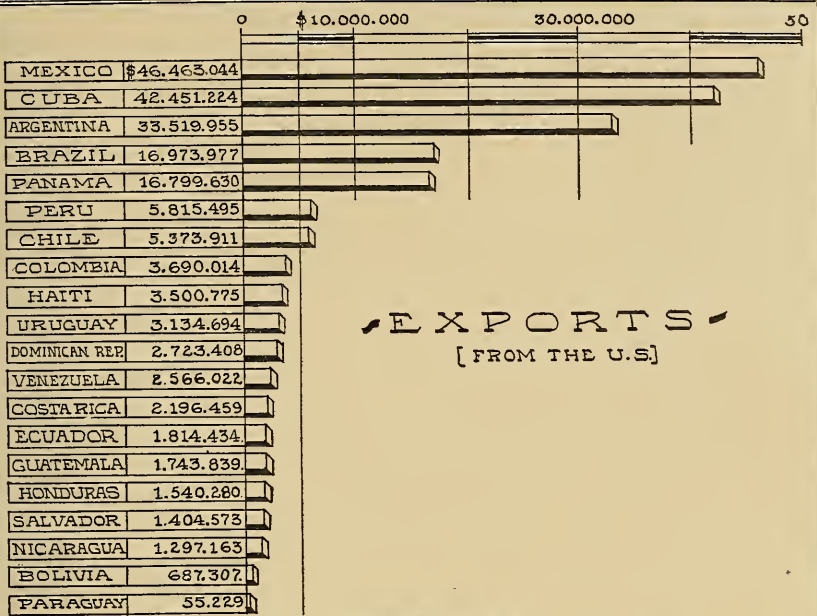
**T**HE spirit of internationalism in its broadest application was the pervading characteristic of relations between the various countries of America during 1908.

The year was marked by numerous gatherings of the representative elements of national life both in Latin America and the United States, and on all occasions indications of a unanimity of sentiment and community of interest were markedly displayed.

Of paramount importance was the carrying into effect of the various conventions of the Washington Peace Conference of 1907 entered into by the Republics of Central America. In accordance with these conventions, the Central American Court of Justice held its first session in May, 1908, at Cartago, Costa Rica, the first judicial decision being rendered in December. On September 15 the Central American Bureau was inaugurated in the capital of Guatemala for the furtherance of reciprocal interests among the nations of Central America, and with the assembling of the First Central American Conference at Tegucigalpa, Honduras, in the first month of 1909, additional emphasis is given to the intention of the nations interested to embrace all feasible means for the development of their material possibilities.

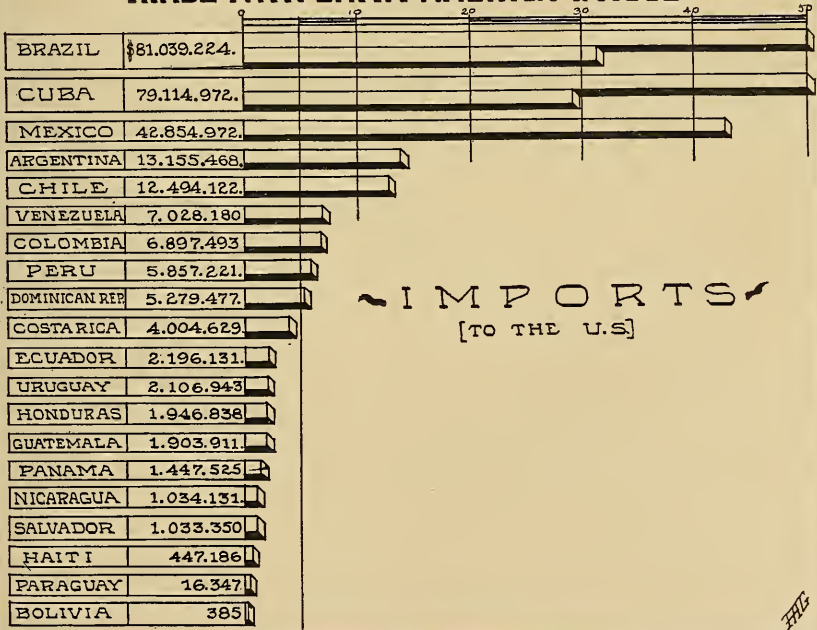
The participation of Pan-America was a feature of the Lake Mohonk Conferences of 1908 and 1909, and active interest was indicated in such industrial assemblies as the International Fisheries Congress, the Irrigation Congress, the Trans-Mississippi Commercial Congress, the Rivers and Harbors Congress, and the Conservation Congress, all of which were held in the United States and attended by delegates from the Republics to the south.

In the field of science, the Fifth Pan-American Medical Congress meeting in Guatemala City during August was an event of note, and the gathering of savants of the Western Hemisphere in Santiago de Chile in December, for the purpose of holding the First Pan-American Scientific Congress, marked the entry of the United States into the realm of intellectual activity covered by the four Latin-American Scientific Congresses previously held. As a compliment to this cooperative action, Washington was selected for the next meeting place of the Congress, in 1912.



**EXPORTS**  
[ FROM THE U.S. ]

**UNITED STATES -  
TRADE WITH LATIN AMERICA IN 1908**



**IMPORTS**  
[ TO THE U.S. ]

Intellectual stimulus has been aroused through the holding of students' congresses, and the year 1908 was marked by an increased number of Latin-American students in United States' universities as well as by a vastly augmented interest on the part of the United States in the applied educational methods of Latin-American countries.

Not the least contributing factor in this interest is the better knowledge being daily acquired through the tide of travel which is setting toward Latin America and for which improved communication facilities are largely responsible.

With the assembling of the Fourth International Conference of American States in Buenos Aires in 1910, the common interests of the American nations will be still further accentuated, and the results of the previous meetings at Washington, Mexico, and Rio de Janeiro reported on in the light of recent events demonstrating the status of America as a whole in world affairs.

#### TRADE OF AMERICA IN 1908.

	Imports.	Exports.	Total.
Argentine Republic .....	\$272, 972, 736	\$366, 005, 341	\$638, 978, 077
Bolivia .....	16, 323, 000	17, 514, 000	33, 837, 000
Brazil .....	177, 450, 000	220, 475, 000	397, 925, 000
Chile .....	97, 551, 421	116, 489, 411	214, 040, 832
Colombia .....	13, 513, 892	14, 998, 744	28, 512, 636
Costa Rica .....	5, 629, 405	7, 757, 525	13, 386, 930
Cuba .....	85, 218, 391	94, 603, 324	179, 821, 715
Dominican Republic .....	5, 127, 463	9, 486, 344	14, 613, 807
Ecuador .....	6, 950, 256	8, 346, 371	15, 296, 627
Guatemala .....	5, 811, 586	6, 756, 143	12, 567, 729
Haiti .....	4, 701, 160	3, 478, 848	8, 180, 008
Honduras .....	2, 829, 979	1, 834, 060	4, 664, 039
Mexico .....	110, 800, 000	121, 370, 000	232, 170, 000
Nicaragua .....	3, 000, 000	4, 500, 000	7, 500, 000
Panama .....	7, 806, 811	1, 757, 135	9, 563, 946
Paraguay .....	3, 929, 724	3, 731, 745	7, 661, 724
Peru (estimated) .....	25, 000, 000	27, 750, 000	52, 750, 000
Salvador .....	4, 240, 560	5, 787, 677	10, 028, 237
United States .....	1, 116, 449, 681	1, 752, 833, 247	2, 869, 282, 928
Uruguay .....	34, 618, 304	37, 280, 523	71, 899, 327
Venezuela .....	9, 778, 810	14, 560, 880	24, 339, 640
	2, 009, 703, 679	2, 887, 316, 268	4, 847, 019, 947

The aggregate of trade for the various countries composing the International Union of American Republics during 1908 was \$4,847,019,947, against \$5,415,798,197 in the preceding year. This loss of over \$550,000,000 is attributable to well-known economic causes which affected commercial centers throughout the world.

In the total for the year the share of the United States is represented by \$2,869,282,928, composed of imports, \$1,116,449,681, and exports, \$1,752,833,247, as compared with \$3,346,596,025, composed of \$1,423,169,820 and \$1,923,426,205 for imports and exports, respectively, in 1907, a decrease of \$477,313,097 being indicated.

Latin America figured in the grand total for \$1,977,737,019, showing a decline of \$89,647,589 in the trade volume as compared with the previous year.

NOTE:-

\* ESTIMATED

YEAR

ARGENTINA 366,005,341.

BRAZIL 220,475,000.

MEXICO 121,370,000.

CHILE 116,489,411.

CUBA 94,603,324.

URUGUAY 37,280,523.

PERU \* 27,750,000.

BOLIVIA 17,514,000.

COLOMBIA 14,998,744.

VENEZUELA 14,560,830.

DOMINICAN REP 9,486,344.

COSTA RICA 7,757,526.

GUATEMALA 6,756,143.

ECUADOR 6,346,371.

SALVADOR 5,787,677.

NICARAGUA 4,500,000.

PARAGUAY 3,731,745.

HAITI 3,478,848.

HONDURAS 1,834,060.

PANAMA 1,757,135.

HONDURAS 2,829,879.

NICARAGUA 3,000,000.

PARAGUAY 3,929,724.

SALVADOR 4,240,560.

HAITI 4,701,160.

DOMINICAN REP 5,127,463.

COSTA RICA 5,629,405.

GUATEMALA 5,811,586.

ECUADOR 6,950,256.

PANAMA 7,806,811.

VENEZUELA 9,778,810.

COLOMBIA 13,513,892.

BOLIVIA 16,323,000.

PERU \* 25,000,000.

URUGUAY 34,619,804.

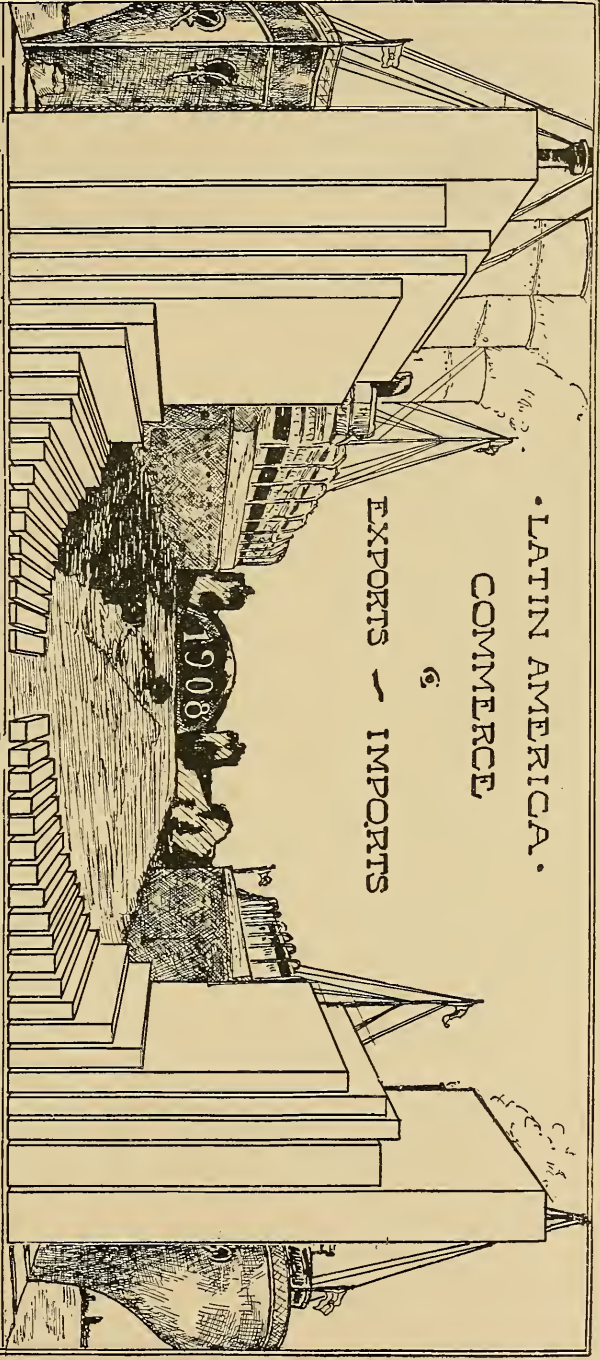
CUBA 85,218,391.

CHILE 97,551,421.

MEXICO 110,800,000.

BRAZIL 177,450,000.

ARGENTINA 272,972,736.



• LATIN AMERICA •

COMMERCE

EXPORTS — IMPORTS

1915

Imports into all of Latin America during 1908 amounted in value to \$893,253,998, against \$1,000,297,852 in 1907, the indicated decline for this branch of trade being \$107,043,854.

On the other hand exports, with a total valuation of \$1,084,483,021, show a gain of \$15,578,701 over the figures for 1907, when Latin-American merchandise was shipped abroad to the value of \$1,068,904,320.

From the foregoing statement it is seen that in spite of certain adverse conditions in the financial world the demand for articles of Latin-American origin created a trade balance in favor of the producing countries to the extent of \$191,229,023, in which sum the exports for the year exceeded the imports.

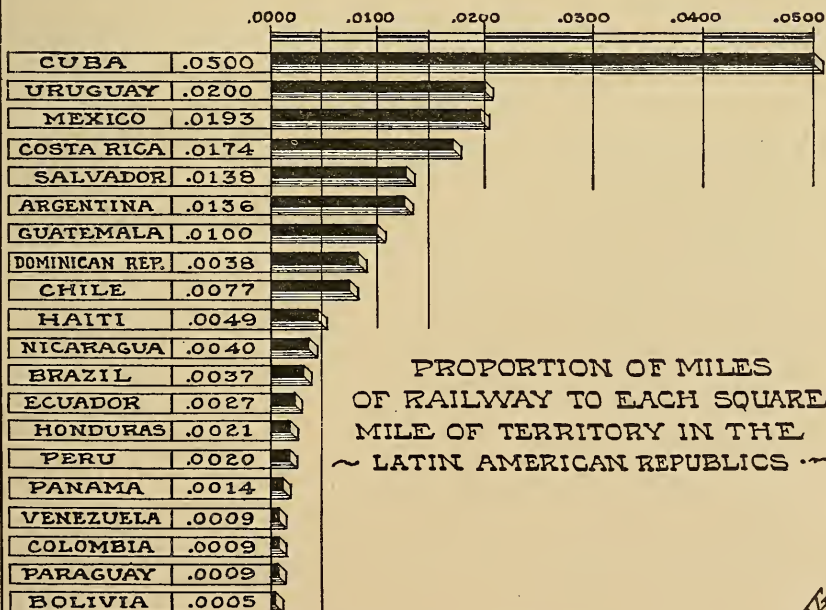
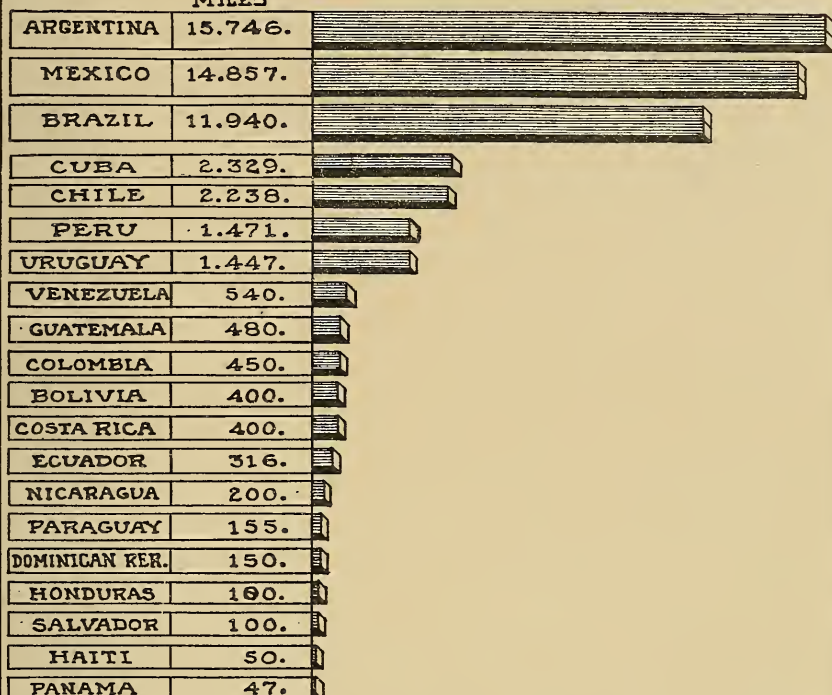
In the year's trade total for Latin America, the United States share was \$468,216,455, as compared with \$558,279,201 in 1907, receipts of Latin-American merchandise figuring on the trade lists of the country for \$271,498,425 and shipments of United States goods to those countries being represented by \$196,718,030, as compared with imports worth \$317,726,133 and exports \$240,553,068 in 1907.

With Central America, trade values in 1908 aggregated \$36,352,328, against \$45,087,355 in the year previous; with Mexico a total of \$89,318,016 is recorded, as compared with \$124,698,413; with South America, \$209,029,069, a decline from \$233,293,351 in 1907; with Cuba, \$121,566,196, against \$144,973,116; with Haiti, \$3,947,961, compared with \$4,366,273; and with the Dominican Republic, \$8,002,885 in 1908 and \$5,860,693 in 1907.

In considering the figures given above, adverse conclusions must not be drawn as to the value of the Latin-American field of trade. The falling off in the exchange of commodities for the year 1908 with the United States, as already suggested, was due almost entirely to unfavorable and unusual economic conditions. The reliable measure of such value is determined by comparing the statistics of the present with those of ten years ago, and here a great increase is shown. The outlook, moreover, for the coming year is good, and there is an awakening, largely due to the efforts of the International Bureau, among business men in both North and South America to the possibilities of trade exchange heretofore undeveloped which must have a beneficial effect on Pan-American commerce.

# RAILWAY MILEAGE OF - LATIN AMERICA -

MILES



PROPORTION OF MILES  
OF RAILWAY TO EACH SQUARE  
MILE OF TERRITORY IN THE  
~ LATIN AMERICAN REPUBLICS ~

# ARGENTINE REPUBLIC

The Argentine Republic, the third largest of the American Republics, is situated between latitude  $22^{\circ}$  and  $56^{\circ}$  south and longitude west of Greenwich  $53^{\circ}$  and  $57^{\circ}$ , being bounded by the Republics of Chile, Bolivia, Paraguay, Brazil, Uruguay, and the Atlantic Ocean. It has an area of 1,135,840 square miles, equal to about one-half the total area of the United States of America, and a population of 6,100,361, or 5.4 per square mile, as against 23.2 in the United States of America.

Stretching over  $34^{\circ}$  of latitude, the country presents a variety of climate and products, ranging from tropical in the north to arctic in the south, but the larger part of its territory lies within the temperate zone. The broad, fertile plains extending from the Atlantic to the foot of the Andes, occasionally broken by a series of low mountains, afford excellent pasturage for thousands of cattle, and nearly all cereals, especially wheat, corn, and oats, are successfully cultivated. Other industrial articles produced in export quantities are hides and skins of all kinds, and the valuable quebracho wood and its extract. Sugar, cotton, tobacco, and grapes are largely grown, but mostly for home consumption. The mountains contain rich deposits of silver, copper, and gold, which are as yet exploited to a limited extent only.

## HISTORICAL SKETCH.

The Spanish navigator, JUAN DE SOLIS, in search of a passage to the Pacific Ocean, was the first European to explore the Rio de la Plata, in the year 1508 and again in 1515. SEBASTIAN CABOT subsequently explored the country, sailing up the Parana and Paraguay rivers in 1526.

PEDRO DE MENDOZA was appointed Governor of the country by the Spanish Crown in 1536, and founded what is now the city of Buenos Aires. The settlement was, however, destroyed by the Indians, and it was not until the year 1576, when JUAN DE GARAY became Governor, that any serious attempt was again made to colonize the country. The Province of Uruguay, as the entire territory was then called, was placed under the jurisdiction of the Viceroy of Peru, but in 1776 the La Plata country had become of sufficient importance to warrant the establishment of a separate viceroyalty, and Don PEDRO DE CEVALLOS was appointed Viceroy of the Rio de la Plata Provinces.

In the year 1805 Great Britain, then at war with Spain, attempted to seize the city of Buenos Aires, which had become an important



trade center, but the British troops were unsuccessful, and in the following year they temporarily abandoned the contest. Within less than a year, however, the attempt was again made to capture the city, the British being again and finally defeated on July 6, 1807.

The war for independence from Spanish rule began on May 25, 1810, Don MANUEL BELGRANO, General SAN MARTIN, and Admiral GUILLERMO BROWN being among the distinguished patriots engaged in the struggle. The Spanish troops were defeated both by water and by land on June 22, 1814, and were obliged to abandon the fort of Montevideo, their last stronghold in the La Plata Provinces.

A constitutional Assembly, which convened at Tucuman, formally declared the independence of the "Provincias Unidas del Rio de la Plata" (United Provinces of the La Plata River), on July 9, 1816, and vested the executive authority in a Supreme Director; Don JUAN MARTIN DE PUEYRREDON being elected to that position. The title of Republic was subsequently changed to that of Argentine Republic and later to Argentine Confederation and finally, in the year 1860, to Argentine Nation, which is now its official designation. In the year 1824 the executive power was vested in a President of the Republic, and Don BERNARDO RIVADAVIA was inaugurated as the first executive of this office on February 7, 1825.

The incorporation of the territory now constituting the Republic of Uruguay into the Argentine Confederation resulted in war with Brazil. This war began on December 10, 1825, and lasted until 1827, when a treaty of peace was concluded, on February 20, whereby the independence of Uruguay was guaranteed.

Among the great men of the Argentine Nation may be mentioned Don BARTOLOMÉ MITRE, author, statesman, soldier, and patriot, who commanded the allied forces in the war with Paraguay; Don DOMINGO FAUSTINO SARMIENTO, the great educator, who organized the school system of the Republic; Don NICOLAS AVELLANEDA, who stimulated commerce and industries; and Don JULIO ROCA, who subdued the troublesome Indians of the Chaco and successfully averted a war with Chile which threatened to eventuate as the result of a boundary dispute.

Don MANUEL QUINTANA was inaugurated President of the Republic on October 12, 1904, but died on March 12, 1906, before the expiration of his term of office. He was succeeded by the then Vice-President, Dr. JOSÉ FIGUEROA ALCORTA, whose term of office will expire on October 11, 1910.



DR. DON JOSÉ FIGUEROA ALCORTA, PRESIDENT OF THE ARGENTINE REPUBLIC.

## CONSTITUTION AND GOVERNMENT.

The Argentine Republic is one of the five American Republics which have adopted the Federal Union of States as its form of government, the others being the United States of America, the United States of Brazil, the United Mexican States, and the United States of Venezuela. All the other American Republics have a unitary or centralized form of government.

The constitution adopted May 1, 1853, modeled closely after that of the United States of America, provides for the usual three branches of government—the legislative, executive, and judicial.

The legislative power is vested in the National Congress, consisting of the Senate and the Chamber of Deputies, the former with 30 members and the latter with 120. Senators are elected by the legislatures of the States, usually called “provinces,” and in the federal district by a special body of electors, for a term of nine years, two senators being named for each province and two for the federal district. The Senate is, however, renewed by thirds every three years. Deputies are elected by direct popular vote, for a term of four years, in the proportion of one for every 33,000 inhabitants. The Chamber of Deputies is renewed by halves every two years.

The President of the Republic, assisted by a cabinet of eight ministers or secretaries of state, exercises the executive authority. The President and Vice-President are elected indirectly, as in the United States, by electors chosen by the people for that purpose, and for a term of six years. Neither the President nor the Vice-President may be elected for a second term immediately following their incumbency of the office. The Vice-President is the President of the Senate.

The judiciary is composed of a national supreme court for courts of appeals and courts of first instance. Each province has its own judiciary. The supreme court is composed of five judges and the courts of appeals of three judges each, appointed by the President of the Republic.

President.....	Dr. JOSÉ FIGUEROA ALCORTA.
Minister of the Interior.....	Dr. MARCO AVELLANEDA.
Minister of Foreign Affairs.....	Dr. VICTORINO DE LA PLAZA.
Minister of the Treasury.....	Dr. MANUEL DE IRONDO.
Minister of Justice and Public Instruction.....	Dr. S. S. NAÓN.
Minister of Public Works.....	Dr. EXEQUIEL RAMOS MEXÍA.
Minister of Agriculture.....	Sr. PEDRO EZCURRA.
Minister of War.....	Sr. General RAFAEL M. AGUIRRE.
Minister of Marine.....	Rear-Admiral ONOFRE BETBEDER.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is ₧72,000 (\$36,000) per annum.

## INTERIOR GOVERNMENT.

The Argentine Republic is divided into 14 provinces, 10 territories, and 1 federal district, the provinces being autonomous in their in-

terior government, while the executive authority in the territories is vested in a Governor appointed by the President of the Republic. The federal district is administered by an intendente, or mayor, who is likewise appointed by the President, and assisted by a municipal council elected by the people.

The following are the political divisions of the Argentine Republic:

Federal district of Buenos Aires, capital of the Republic.

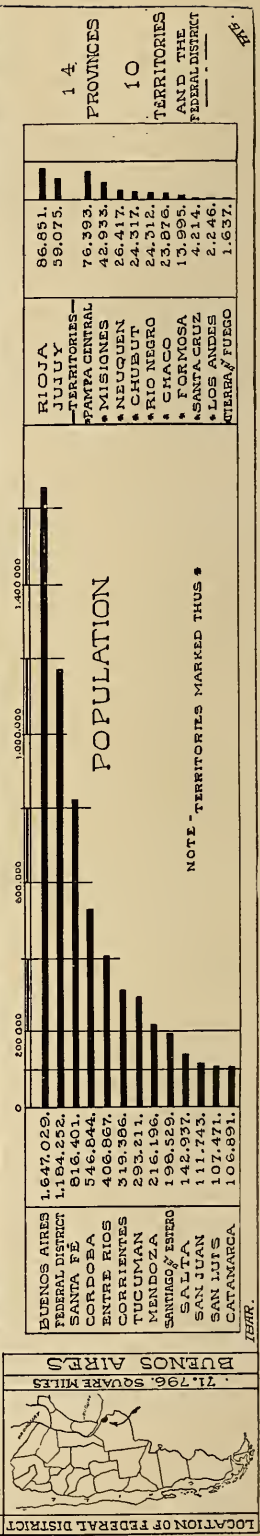
Province of—	° Capital.
Buenos Aires.....	La Plata.
Catamarca.....	Catamarca.
Cordoba.....	Cordoba.
Corrientes.....	Corrientes.
Entre Rios.....	Parana.
Jujuy.....	Jujuy.
Mendoza.....	Mendoza.
Rioja.....	La Rioja.
Salta.....	Salta.
San Juan.....	San Juan.
Santa Fe.....	Santa Fe.
Santiago del Estero.....	Santiago del Estero.
San Luis.....	San Luis.
Tucuman.....	Tucuman.
Territory of—	
Chaco.....	Resistencia.
Chubut.....	Rawson.
Formosa.....	Formosa.
Los Andes.....	San Antonio de los Cobres.
Misiones.....	Posadas.
Neuquen.....	Chos-Malal.
Pampa Central.....	General Acha.
Rio Negro.....	Viedma.
Santa Cruz.....	Puerto Gallegos.
Tierra del Fuego.....	Ushuaia.

#### ARMY AND NAVY.

Under a law enacted in 1901, military service in the Argentine Republic is compulsory. All able-bodied citizens must serve from their twentieth to their forty-fifth year, nominally for a period of twenty-five years, although the actual service rarely extends beyond one year. There are two reserve corps—the National Guard, comprising all citizens between the ages of 28 and 40 years, and the Territorial Guard, composed of citizens over 40 years of age. Those under 28 and over 20 serve for one year with the colors. Naturalized citizens are exempt from military duty for a term of ten years after their naturalization.

The Republic is divided into five military districts, each with a district commander. In case of mobilization each district must provide two divisions, making a total of ten divisions of 12,000 men each. This does not include the National or Territorial Guards.

BUENOS AIRES 117,776 Sq.M.	*SANTA CRUZ 109,141 Sq.M.	*CHUBUT 93,427 Sq.M.	*RIO NEGRO 75,924 Sq.M.	SALTA 62,184 Sq.M.	CORDOBA 62,159 Sq.M.	MENDOZA 56,502 Sq.M.	*PAMPACENTRAL 55,320 Sq.M.	*CHACO 52,741 Sq.M.	SANTA FE 50,915 Sq.M.	CATAMARCA 47,531 Sq.M.	NEUQUEN* 42,545 Sq.M.
41,401 Sq.M.	39,764 Sq.M.	34,546 Sq.M.	33,715 Sq.M.	32,579 Sq.M.	28,724 Sq.M.	28,503 Sq.M.	23,051 Sq.M.	19,976 Sq.M.	11,282 Sq.M.	8,925 Sq.M.	8,299 Sq.M.
*FORMOSA	SANTIAGO DEL ESTERO	RIOJA	SAN JUAN	CORRIENTES	ENTRE RIOS	SAN LUIS	*LOS ANDES	JUJUY	MISIONES	TUCUMAN	MIRIAFUGO



AREA AND POPULATION OF THE PROVINCES AND TERRITORIES OF THE ARGENTINE REPUBLIC.

On a peace footing the Argentine army consists of 1,560 officers and 16,000 men.

Education of army officers is provided for at the Military College at San Martin, a short distance from Buenos Aires, where ample opportunities for a thorough training are afforded, while the Naval



CAVALRYMAN, ARGENTINE REPUBLIC.

The cavalry branch of Argentina's standing army consists of eleven regiments. The men are expert horsemen, and this branch of the national service appeals to them. The mounts are of small stature, strong, hardy, and high spirited, but very tractable.

Academy, located in a beautiful park, in the suburb of Flores, provides education for officers of the naval service.

The Argentine navy consists of 4 armored cruisers of the first class, of 6,840 tons each, the *San Martin*, *General Belgrano*, *Pueyrre-*

*don*, and *Garibaldi*; 3 ironclads, the *Almirante Brown*, of 4,200 tons, the *Libertad*, and *Independencia*, of 2,300 tons each; 2 monitors, *El Plata* and *Los Andes*, of 1,535 tons each; 4 cruisers of the second class, the *Buenos Aires*, *9 de Julio*, *25 de Mayo*, and *Patagonia*, of 4,700, 3,560, 3,200, and 1,530 tons, respectively; also 3 destroyers, 2 torpedo cruisers, 24 torpedo boats, 1 school-ship, 5 transports, and a number of auxiliary vessels.

The officers of the navy number 493, including engineers, while the number of enlisted men varies from 5,000 to 6,000, according to the number of conscripts recruited annually.

## THE ARGENTINE REPUBLIC IN 1908.

The year 1908 was one of steady progress and prosperity in the history of the Argentine Republic. Agriculture, which forms the basis of the nation's wealth, made signally prosperous returns; the wheat crop was the largest ever harvested; linseed exports made a new record; and though maize suffered somewhat from the effects of drought, large shipments were reported, and in the status of oats on the export returns, a gain of 150 per cent was reported. The pastoral industries also made satisfactory returns, exports of frozen meats showing considerable advance over the preceding year, though shipments of live cattle still remain in an unsatisfactory condition.

The producing capacity of the country is steadily increasing, and in cereal production its status is evidenced by the fact that as a corn exporter the Argentine Republic took first rank in 1908, occupying the place formerly held by the United States. In the production of this foodstuff the country ranks third, and as a wheat grower fifth. It is first as an exporter of frozen meat and second as a shipper of wool.

In the number of its cattle the Republic holds third place among the nations, being ranked by India and the United States. Russia and the United States exceed it in number of horses, and Australia alone has a greater number of sheep.

The large trade balance of the country is ample indication of the year's prosperity, exports showing a great advance over the preceding year and an excess, as compared with imports, of nearly \$100,000,000. The decline in imports, as compared with 1907, is due largely to decreased receipts of railway material, of which the companies laid in large quantities prior to the operations of the Mitre law, which unified the privileges accorded to the corporations.

Industrial advancement is indicated by the increased number of mills and factories in operation; immigration figures surpassed all previous records; railroad connections were extended; and financial conditions generally were satisfactory.

## FOREIGN AFFAIRS.

Among the affairs of importance in the administration of the foreign policies of the Government no event of the year takes rank over the general arbitration treaty with Brazil, which was promulgated in November. The Republic also participated in the Refrigeration Congress held in Paris in October, and the recommendations and reports of the Argentine delegates on pasteurization, shipment, and distribution of milk were well received. The dairy industry is attracting attention throughout the country, and Argentine butter is taking its place on the export lists of the country.

Buenos Aires has been selected as the place of meeting for the next Congress of Americanists, adjourned in Vienna in September, 1908. The conference will be held in 1910, the year of the centennial celebration of the country's independence.

The exposition of national industries, scheduled in connection with the centennial festivities, is to make a feature of transportation methods, all nations being invited to participate in a display of railway equipment and land transport generally.

The same year and place has been selected for the Fourth International Conference of the American Republics, for which active preparations are going forward throughout the republics interested.

The work of the Carnegie Institute is to be continued in the Argentine Republic under the direction of Prof. LEWIS BOSS. The assistance rendered by the Argentine Government has greatly aided in the advancement of this work.

Progress in matters of public utility during the year was very satisfactory. Numerous concessions granted were to increase existing railway lines, to supply new harbor accommodations at Buenos Aires, and for water and drainage works.

## FINANCE.

The financial situation remains satisfactory, the national revenues being ample for the ordinary requirements, and the public debt service was promptly met without recourse to the credit available at the Argentine National Bank. At the close of the year the total liabilities of the Government were \$378,500,000. The Province of Buenos Aires successfully floated a loan for the completion of a reclamation project by which a large area of arable land will become available.

The report of the Minister of Finance showed treasury receipts for the year amounting to \$112,000,000 derived from customs receipts and internal-revenue taxes. Import duties figured in the receipts to the extent of nearly \$57,000,000, divided among Buenos Aires, Rosario, La Plata, and Bahia Blanca in the order named. All of these ports,

with the exception of Rosario, showed an increase in imports over 1907. The expenditures reached a total of \$103,000,000, leaving a surplus of \$9,000,000.

The budget for 1909 as approved by the National Congress provides for expenditures of \$25,907,777 gold and ₧198,344,400, with estimated revenues of \$67,820,433 and ₧100,639,516. Bank deposits in the Republic on January 31, 1908, aggregated \$23,538,215 and ₧811,026,530, while the cash on hand on the same date amounted to \$47,570,137 and ₧230,161,400. The Government gold reserve for the conversion of national currency amounted to \$126,482,515.76, an increase of \$21,368,644.26 over 1907.

The capital of the Bank of the Argentine Nation was increased by a law authorizing the issue of bonds to the amount of \$17,177,000 gold, secured by the general revenues of the Republic.

British capital continued to figure prominently in various enterprises to the extent of £243,000,000, railways proving the principal attraction for investors. with government bonds in second place.

#### COMMERCE.

The Argentine Republic was one of the few countries of the world reporting advanced trade values for the year 1908, a gain of over \$56,000,000 being reported. The immense grain crops of the year, which swelled the exports of the country, accounted for this gratifying result. The total valuation of the foreign commerce of the Republic for 1908 was \$638,978,077, as compared with \$582,065,052 in 1907. This increase is to be credited entirely to the side of exports, amounting to \$366,005,341, as compared with \$296,204,469 in 1907, a gain of \$69,800,972; while imports worth \$272,972,736 declined by \$12,887,947, the figures for the previous year having been \$285,860,683. Only for one year has the reported trade balance of \$93,022,605 been exceeded, when in 1905 the exports were greater than imports by over \$117,000,000.

The countries of origin for imports during the year under review, with the respective valuations furnished by each in comparison with the preceding year, were as follows: Great Britain, \$93,371,396, a decline of \$4,564,347; Germany, \$37,847,076, a decline of \$7,964,094; United States, \$35,597,004, a decline of \$3,245,273; France, \$26,476,917, an advance of \$1,008,891; Italy \$24,913,248, an advance of \$910,007; and Belgium, \$12,753,373, a loss of \$3,143,477. From the above figures it will be noted that the three ranking countries decreased their sales, while the two next in order increased their shipments. Great Britain holds first place, with 34.2 per cent, while Germany and the United States follow, with 13.9 and 13.2 per cent, respectively.



1908

1912

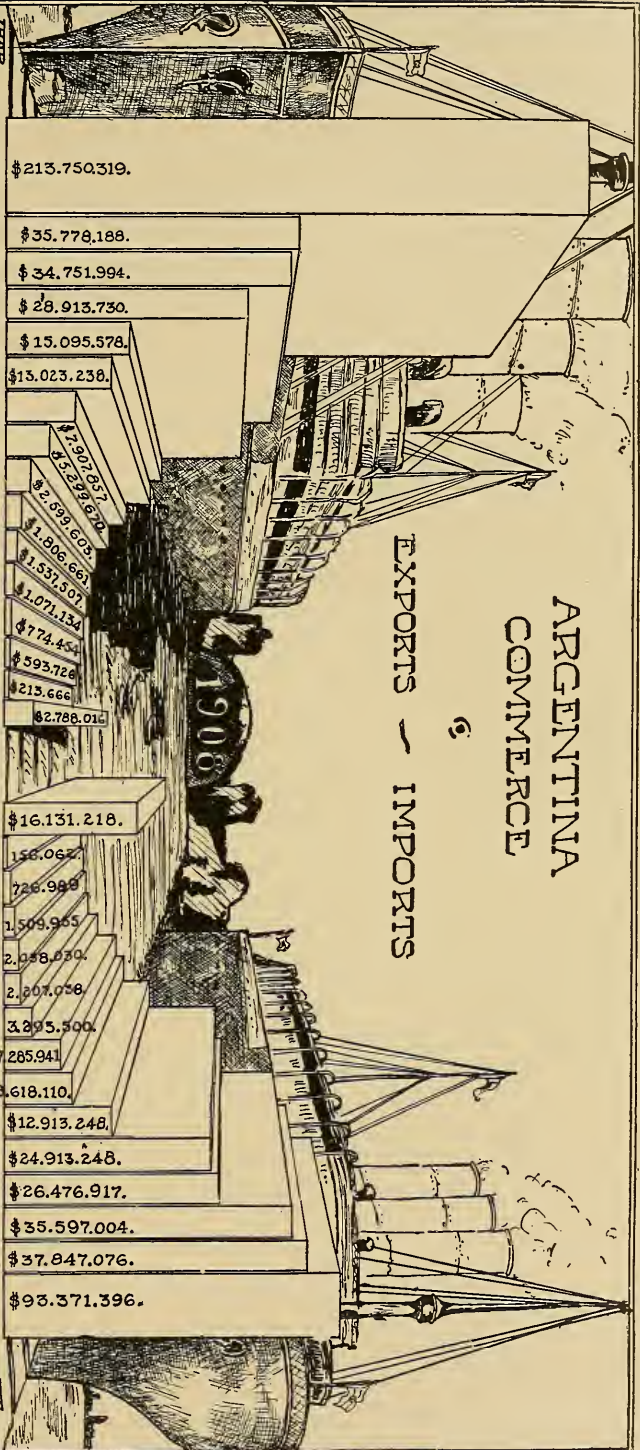
GREAT-BRITAIN  
 BELGIUM  
 GERMANY  
 FRANCE  
 BRAZIL  
 UNITED STATES  
 ITALY  
 NETHERLANDS  
 SPAIN  
 CANADA  
 CHILE  
 AUSTRIA-HUNGARY  
 URUGUAY  
 BOLIVIA  
 PARAGUAY  
 OTHERS  
 OTHERS  
 BOLIVIA  
 CHILE  
 PARAGUAY  
 NETHERLANDS  
 URUGUAY  
 AUSTRIA-HUNGARY  
 BRAZIL  
 SPAIN  
 BELGIUM  
 ITALY  
 FRANCE  
 UNITED STATES  
 GERMANY  
 GREAT BRITAIN

\$213,750,319.  
 \$35,778,188.  
 \$34,751,994.  
 \$28,913,730.  
 \$15,095,578.  
 \$13,023,238.  
 \$2,927,897.  
 \$2,299,632.  
 \$1,906,608.  
 \$1,537,661.  
 \$1,071,134.  
 \$774,454.  
 \$593,726.  
 \$213,666.  
 \$2,788,016.  
 \$16,131,218.  
 \$156,062.  
 \$726,988.  
 \$1,509,965.  
 \$2,098,030.  
 \$2,207,058.  
 \$3,295,500.  
 \$7285,941.  
 \$8,618,110.  
 \$12,913,248.  
 \$24,913,248.  
 \$26,476,917.  
 \$35,597,004.  
 \$37,847,076.  
 \$93,371,396.

1908

EXPORTS — IMPORTS

ARGENTINA  
 COMMERCE



A classification of the imports for the year gives textiles and manufactured goods the first place with a total of \$49,911,338, followed by transport appliances and vehicles, \$30,700,337; iron and manufactures of, \$30,075,484; pottery, ceramics, etc., \$24,897,435; foodstuffs, \$23,549,097; building materials, \$21,182,426; agricultural implements, \$15,839,838; wines and liquors, \$13,279,781; and mineral and vegetable oils, \$11,051,723. A comparison of these figures with those for the previous year shows the following gains: Pottery and ceramics, \$4,264,645; oils, \$2,966,952; foodstuffs, \$2,615,908; textiles, \$2,563,830; metals (other than iron), \$1,064,495; chemical and pharmaceutical products, \$1,000,658; and wines and liquors, \$646,042. On the other hand, a decline was noted in the following: Vehicles, \$21,620,413; iron, etc., \$3,085,655; agricultural implements, \$2,701,731; and building materials, \$1,837,967.

A review of the export values, as compared with 1907, shows Great Britain to have received \$78,324,723, a decline of \$24,608,571; Belgium, \$35,778,188, an advance of \$6,186,055; Germany, \$34,751,994, a decline of \$1,671,062; France, \$28,913,730, a decline of \$8,848,316; Brazil, \$15,095,578, an advance of \$1,077,147; United States, \$13,023,238, an advance of \$2,082,802. While Great Britain is credited with 21.4 per cent of the export values, it must also be borne in mind that 37 per cent of these figures represent grain shipments subject to distribution in accordance with subsequent orders, most of which finds a sale in British markets. Belgium follows with 9.8 per cent; Germany, 9.5; France, 7.9; Brazil, 4.1, and the United States, 3.6.

A classification of the exports into six general divisions show agricultural products worth \$241,677,164, a gain of \$77,585,543 over 1907; live-stock products \$115,118,457, a decline of \$8,701,748; forest products \$6,347,234, an increase of \$1,004,877; fish and game \$498,612, an increase of \$330,947.

Exports of cereals showed a gain over 1907, wheat taking the lead with 3,636,294 tons, an increase of 955,492 tons; corn coming second with 1,711,804 tons, an advance of 455,492 tons; linseed third with 1,055,650 tons, or 291,914 tons more than the previous year, while oats, although fourth with 440,041 tons, showed a gain of 296,475 tons over 1907. This is accounted for by the fact that the United States, owing to a short crop, was a large importer of Argentine oats, receipts being reported of 4,000,000 bushels in twelve months. Argentine corn also figured in the country's trade lists for 200,000 bushels. Wool exports showed an increase of 20,728 tons over 1907, the total shipments for the year amounting to 175,538 tons; frozen beef reached a total of 180,915 tons, an increase of 42,593 tons; while in jerked beef there was a decline of 3,999 tons, amounting to only

6,650 tons in 1908. Hay showed a decrease of 14,799 tons, the exports of this article reaching only 32,078 tons, while quebracho wood and quebracho extract amounted to 254,571 tons and 48,162 tons, respectively, an advance over the previous year of 8,057 and 19,967 tons. In shipments of hides there was a healthy increase, and of those exported in 1908, the United States took 1,466,143, Germany 1,200,696, and Italy 654,716. Exports of sheepskins showed a gratifying increase, 76,371 bales being exported as against 59,260 in 1907. France was the principal consumer, taking 55,262 bales, and the United States 7,669.

In pastoral products the following articles showed the increased valuations recorded: Frozen and chilled meats, \$5,275,000; tanned sheepskins, \$281,600; butter, \$206,000; tallow and melted fat, \$1,224,000; margarine, \$205,000; goatskins, \$300,000; bones, \$296,000; while the following articles decreased in the amounts stated: Live animals, \$314,000; hair, \$136,500; hides, \$900,000; sheepskins, \$2,600,000; wool, \$12,000,000; jerked beef, \$405,000; meat extract, \$411,000.

The increased valuations noted for agricultural products were: Oats, \$6,104,000; barley, \$436,000; linseed, \$12,923,483; maize, \$11,902,886; wheat, \$46,114,863; flour, \$436,400; bran, \$146,500; and various seeds, \$410,000. The only considerable decrease was \$170,000 in hay and \$808,000 in canary seed.

From investigation of the trade lists of other countries, it is found that five countries—Great Britain, Germany, Belgium, the Netherlands, and Brazil—take more than 90 per cent of the Argentine shipments of wheat, flax, maize, and quebracho, other countries merely supplementing short crops or supplying temporary necessities.

Shipments of live stock during the year comprised 4,032 steers, 37,951 wethers, 3,487 horses, and 1,042 mules. Steers and wethers showed an increase of nearly 2,000 each, Brazil taking over one-half of the steers and Belgium practically all of the wethers. Horses decreased by nearly 1,000 and mules by 14,500. South Africa and Brazil still lead in the import of Argentine horses, 1,255 and 1,228, respectively, being credited to the two countries.

The Republic has done much to cement firmer trade relations with countries heretofore occupying unimportant positions on its trade list, as is shown by increased imports from Italy, Spain, Austro-Hungary, France, the Netherlands, and Chile.

#### INDUSTRIES.

The paramount importance of agriculture among the industries of the Republic is demonstrated by the trade returns for the year 1908. The production of cereals for the year was estimated at about 5,250,000 tons. The crops for the year were: Wheat, 5,263,705 tons; lin-

seed, 1,100,700 tons; and oats, 492,770 tons. Corn exports represent practically the entire crop of 1,711,804 tons.

The general area of cereals under cultivation in 1908 was 39,500,000 acres, the area under wheat, linseed, and maize and oats being 15,000,000, 3,835,000, 7,434,000, 1,393,000 acres, respectively.

The agricultural area under cultivation in 1908, as compared with 1895, has increased 216 per cent. A large portion of this increase is due to the increase in the cultivation of wheat, the area of which shows an increase of 195 per cent as compared with 1895. During the same period the linseed area increased 295 per cent, and the maize area 138 per cent. A phenomenal increase is noted in the cultivation of oats. The cultivation of alfalfa has also largely increased during the past decade, and it is estimated that the 1,782,000 acres of alfalfa under cultivation in 1895 increased to over 10,000,000 in 1908. Viticulture has also largely increased, and the area now under this cultivation is estimated at 140,000 acres.

Under careful government regulation and the application of the latest and most approved scientific methods the Republic maintained its place among the countries of the world engaged in stock raising. This is especially true with regard to cattle, as the last returns from seven provinces showed \$536,800,000 invested in this industry. A recent agricultural and pastoral census of the Republic showed live stock in the following quantities: Cattle, 29,116,625; horses, 7,531,376; mules, 465,037; donkeys, 285,088; sheep, 67,211,754; goats, 3,245,086; and hogs, 1,403,591, representing a total valuation of \$645,000,000. Annual expositions of live stock held at Palermo, in the vicinity of the capital, show a constant improvement in breeding and selection of stock, and the promulgation of the executive decree of May 8, 1908, enforcing rigid quarantine regulations in regard to imported live stock, clearly indicates the attitude of the Government in the protection of one of the country's principal industries.

The Republic now occupies first place among the countries of the world as a purveyor of frozen meat, though the industry is as yet practically in its infancy, and with the cheapest and most excellent raw material in the world at hand in inexhaustible quantities it will undoubtedly reach proportions greatly in excess of the present. This industry in 1907 represented over \$35,000,000 and gave employment in various establishments to nearly 5,000 workmen. In the beef-salting factories of the River Plate region the cattle slaughtered numbered 1,426,800 in 1908. Uruguay furnished 754,300; Brazil, 425,000; and the Argentine Republic, 247,500. This field has attracted the attention of United States capitalists, and the packing interests are said to be investing large sums in Argentine establishments.

The sugar output, of which the Province of Tucuman is the producing center, amounted to nearly 120,000 tons which, although

not entirely satisfactory, showed a considerable increase over previous years. Domestic consumption is 140,000 tons necessitating importations to the extent of some 20,000 tons to meet the demands of the home market. The wine industry, at the beginning of 1908, represented capital aggregating \$59,000,000 with an average annual output of 1,890,000 hectoliters valued at \$12,500,000. This industry also is as yet in its infancy. In the Provinces of Mendoza and San Juan the vintage for the past year was placed at 1,200,000 barrels.

The recent industrial census taken in the Republic showed tobacco manufacturing to be one of the most prosperous and flourishing industries of the country, occupying third place. The bulk of the imported leaf is used in the manufacture of fine cigars and cigarettes, the tobacco grown in the country being employed largely for smoking tobacco. During the five years, from 1903 to 1907, inclusive, imports of tobacco aggregated 10,468 tons, of which 2,925 tons were imported in 1907. There are 77 tobacco factories in the country, of which 46 belong to foreigners. These represent an investment of \$3,440,272 and a yearly output valued at \$12,783,158.

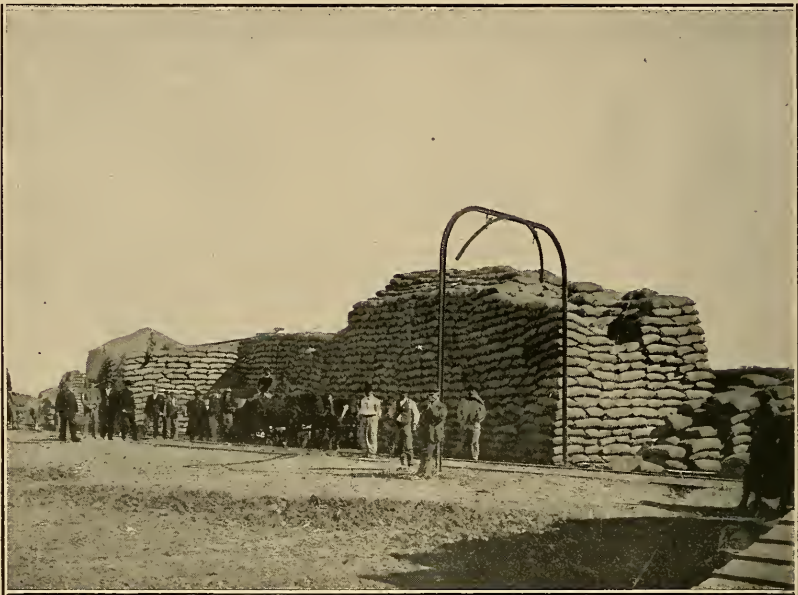
Nearly \$7,000,000 were spent during the year in importations of textile goods, the twine and sacking used in harvesting figuring largely in the total. Much of the material heretofore imported can be produced to advantage in the country where the large areas of easily accessible and fertile lands should attract capitalists and stimulate the cultivation of fibrous plants, thus giving an impetus to an industry of great profit to the country. This matter has already been taken up in a small way in the town of Brugo, Province of Entre Rios, where the manufacture of twine, cord, and sacking has been commenced. The article produced competes advantageously with the products of foreign looms.

Progress in silk culture, another of the infant industries of the Republic, for the year 1908, while not entirely satisfactory, is full of hope for the future. The raw material produced has been pronounced by European experts to be of excellent quality, and the Government assists in spreading a knowledge of the possibilities of this industry. A total of 11,500,000 mulberry trees is reported in the Republic, of which Santa Fé has 5,200,000, Cordoba 4,500,000, Entre Rios 1,500,000, and other provinces 250,000.

At the beginning of 1908 the wheat milling industry showed a total of 350 establishments of which 47 commenced operation during the previous year. As a result of the modern methods employed in most of the mills the yield of flour increased from 64.5 per cent in 1895 to 68.3 in 1907.

The cultivation of maté is being fostered by the Government, and 50,000 plants have been purchased for distribution to settlers on easy terms with full instructions as to their cultivation.

Many causes contribute to the noticeable lack of interest shown in the exploitation of the mineral resources of the Republic, chief of which are lack of available capital, difficulties of transportation, and the high price of fuel. Official statistics show gold exports from 1903 to 1907 to have reached a total of \$1,910,912, or a yearly average of about \$382,000. Copper figured prominently in the mineral productions and marble showed a steady increase from 1895 to 1901, after which it remained stationary. Salt is mined in quantities insufficient for local consumption and other mineral deposits exploited in a small way. The future of this branch of industry is bright, however,



WHEAT AWAITING TRANSPORTATION, ARGENTINE REPUBLIC.

The production of wheat in the Republic is about five and a half million tons a year, of which over four million tons are exported, mostly to Europe.

as many of the precious metals abound in the Republic, requiring only the necessary capital to develop them and add to the resources of the nation.

Industrial companies and public-utility corporations reported a prosperous year; capital so employed represented an aggregate investment of \$133,199,631, with a total yearly output of \$267,322,462 and a working force of 118,315 workmen.

The most important industrial enterprises, other than agricultural and pastoral, from the point of view of capital, are meat packing and refrigerating plants, \$31,136,973; breweries, \$16,950,000; flour mills, \$11,357,022; paper mills, \$6,489,000.

Of the public-utility corporations in the capital, the seven street-railway companies represented a total mileage of 608 kilometers, with

5,778 operatives and 1,665 cars. The city lighting represented an output of 28,105,103 kilowatts of current, and for private consumption three gas companies furnished 37,000,000 cubic meters of gas. The royalties accruing to the municipality of Buenos Aires for the last quarter of 1908 from the German electric company amounted to \$181,245 on a basis of 6 per cent for the period indicated. Other public utilities in contemplation are an underground railroad, the enlargement of the port of Buenos Aires by the construction of a deep-water canal to connect with the Parana de las Palmas River, to cost \$47,000,000, and a custom-house at Buenos Aires to be erected at an expense of \$1,650,000.

Real-estate transfers recorded during the year amounted to \$98,811,621, as compared with \$88,627,961 in 1907, while mortgage transactions covered 6,577 properties, representing 3,844,059 square meters, held as security for loans aggregating \$42,246,289.

Land companies in the Republic had a prosperous year, as is shown by their yearly reports.

The public domain of the Republic in March, 1907, was 203,798,650 acres available for settlement and which the Government holds at \$1 per hectare.

#### RAILWAYS.

The Argentine Republic is practically covered with a network of railways, which extend in every direction and connect the capital with all points north and south, and the ports of Bahia Blanca, Rosario, Parana, Santa Fe, and San Nicolas with the interior. The railway extending north from Buenos Aires via Rosario, Santa Fe, Tucuman, Salta, and Jujuy connects with the Bolivian Railway, and will, when completed, establish direct communication with the capital of Bolivia. The Buenos Aires and Pacific Railway, between Buenos Aires and Mendoza, makes connection with the Transandine Railway at the latter point, which railway, when completed, will establish the much-needed railway connection between Chile and Argentina.

At present there are in operation in the country 15,476 miles of railways, representing a capitalization of over \$788,964,416. Nearly 1,000 miles were added in 1908. Receipts from operating roads during the year are estimated at \$101,391,000 and expenses at \$61,368,000, leaving a profit to the companies interested of \$40,023,000. The number of passengers carried was 48,593,600, and freight transported amounted to 31,930,600 tons.

The majority of these lines are owned and operated by private companies, although three of the lines, viz, the Central Norte, Argentino del Norte, and the Andine railways, are owned and operated by the Argentine Government. These last have a total mileage of 1,838 miles.

Buenos Aires, the capital, is the center of the Argentine railway system, and from this city, trunk lines extend to the city of Rosario, 186 miles; to the city of San Juan, capital of the Province of San Juan, 745 miles, which line also connects with the city of Mendoza, tapping the fertile wine district, as well as with the Transandine Railway; to the city of Cordoba, the capital of the province of the same name, known as the city of churches and universities, a distance of 433 miles. Another trunk line extends from Buenos Aires in a southwesterly direction, connecting all the more important points in the Province of Buenos Aires with the capital, and extending into the Territories of Neuquen and Pampa, 785 miles long.

From Rosario a trunk line extends to the cities of Salta and Jujuy, in the extreme north, connecting at Tucuman, the center of the sugar industry, with a total length of 810 miles. This line runs through the grain belt of the Argentine Republic, of which Rosario may be called the center, handling the largest percentage of the grain exports, and second only to Buenos Aires in its total foreign trade. From Corrientes, the capital of the province of the same name, a railway, 330 miles in length, extends in a southeasterly direction through the Province of Corrientes and the fertile region of the Province of Entre Rios, as far as the cities of Concordia and Gualeguaychu, a branch line connecting with the city of Parana, on the Parana River.

The progressive spirit of the nation is shown by the fact that during the past year Congress granted concessions for the construction of new railway lines representing nearly 3,125 miles of railway, the building of which will involve an expenditure of nearly \$25,000,000, and for which the President has been authorized to issue bonds. Existing lines were extended and connections established via Rosario with the northern limits of the Province of Santa Fe, and a French company has begun work on a line to connect with the railroad between Rosario and Point Belgrano, which will tap a rich section of land suitable for agriculture and stock raising. To the south also the work of extending existing mileage showed progress, and the appointment of two committees for the survey of new railroad lines in that direction gave ample assurance that the Government was fully alive to the immense possibilities of Patagonia. Improvement of fluvial navigation also figured in the government project for the betterment of the national transport, an appropriation of \$3,850,000 having been made for that purpose.

#### STEAMSHIPS.

The principal port in the Argentine Republic, at which most of the foreign vessels enter and clear, is the port of Buenos Aires, while Rosario de Santa Fé is the second in size. Bahia Blanca and La



Plata, in the Province of Buenos Aires, are also accessible for ocean-going vessels and have considerable import and export trade.

Five steamship lines ply between ports of the United States and Buenos Aires, viz, the Lamport & Holt Steamship Company, the Prince Line, the Norton Line, the Houston Line, and the United States and River Plate Steamship Company. Of these only the first-named company has a regular passenger service between New York and Buenos Aires, steamers leaving New York once a month, making the run in twenty-four to twenty-six days. The other four lines have only foreign boats, with limited passenger accommodation in this service, leaving New York or New Orleans at irregular intervals, and occupying from twenty-eight to forty days in the voyage. First-class passage on the Lamport and Holt steamers ranges from \$190 to \$250 one way, while the rates on the other four steamship lines vary from \$125 to \$160.

An excellent service, for both passengers and freight, is, however, maintained with all European ports, there being three Italian, two French, two English, two German, one Spanish, and Danish line with regular weekly or biweekly service between the ports of Genoa, Bordeaux, Marseilles, Liverpool, Hamburg, Bremen, Barcelona, etc., and Buenos Aires. These steamers take from fifteen to twenty-five days for the trip, the passenger rates varying from \$135 to \$250 one way. The Royal Mail Steamship Company and the Hamburg South American Steamship Company have the fastest and most elegantly equipped steamers in this service, and usually take from sixteen to eighteen days between Southampton and Buenos Aires, while the Italian liners make the run from Genoa to Buenos Aires in about the same time.

The Pacific Steam Navigation Company's passengers are transhipped at Montevideo (whence these steamers proceed directly to the West Coast), at which port the White Star Line's steamers also touch, establishing communication with Australia and New Zealand.

With Rio de Janeiro and all Brazilian ports connection is made by the Lloyd Brasileiro steamers, while the Hamburg South American Company has established a regular line of steamers, flying the Argentine flag, between Buenos Aires and all points south as far as Puerto Gallegos.

Three lines of steamers ply between Buenos Aires and Montevideo, making the run in one night, and regular service is maintained by the Mihanovich line, recently acquired by an English syndicate, between Buenos Aires and points on the Parana, Uruguay, and Paraguay River as far as Asuncion, the capital of Paraguay, five days being required for the entire trip.

The shipping for the year showed arrivals of vessels numbering 2,232, representing a total tonnage of 4,888,741 tons, which as compared with 1907 is an increase in steam tonnage of 998,978 tons, and of sailing vessels 10,931 tons. Of this total tonnage the United States was credited with 4,074 tons, represented by four small sailing vessels.

#### WATERWAYS.

The Argentine Republic has been endowed by nature with a number of excellent waterways, some of which form the means of transportation and communication for several provinces, and connection with Paraguay and Bolivia, as well as with Uruguay and the interior of Brazil.

There are a number of interior ports, such as Concordia, Concepcion del Uruguay, Corrientes, La Paz, San Nicholas, Parana, Santa Fe, and Campana, all of which afford good anchorage for ocean-going vessels.

Among the rivers are the Uruguay, navigable up to the city of Concordia for large steamers; the Parana, navigable for ships of 12 feet draft as far as the city of Corrientes; the Paraguay, navigable for vessels of 12 feet draft as far as the city of Asuncion, in Paraguay, and for light-draft vessels almost in its entire length of 1,800 miles; while the Pilcomayo and the Bermejo are both navigable for short distances.

The Rio Negro is likewise navigable for vessels of light draft for a considerable length, as are the Chubut, Senguer, Deseado, Rio Chico, Santa Cruz, and Gallegos rivers. These afford the means of transportation for the southern provinces and territories.

Five companies operating river steamers establish communication between the different ports and cities on the Paraguay, Uruguay, and Parana River, as well as on the estuary of the mighty La Plata, or River Plate, formed by the confluence of these three rivers, which is 150 miles wide at its mouth in the Atlantic Ocean near Montevideo, and extends for some 200 miles inland, narrowing down to only 35 miles wide, where the Parana and Uruguay empty into it.

A number of picturesque lakes are to be found in the southern part of the country, among which Lake Nahuel Huapi, which has a total area of 309 square miles and on which there are 26 little islands. Other lakes of importance are San Martin, Viedma, and Argentino, all of which are notable for their scenic beauty, and are navigable for small craft.

Among the port improvements in contemplation by the Government are included the widening of the channel at Rosario, the construction of a ship canal at Buenos Aires, irrigation works on the Tercero River, and the construction of a port at the mouth of the

Quequen Grande River. In addition to the foregoing, Congress has authorized a special loan of \$420,000 for dredging the Gualaguaychu River and \$175,000 for the construction of a road bridge over the Tunuyan River.

#### POSTS AND TELEGRAPHS.

The postal service of the country at the close of 1908 included 2,377 offices, handling mail matter aggregating 705,000,000 pieces and parcels to the number of 2,020,000, and showed receipts amounting to \$8,328,988.67, an increase of 7 per cent over 1907. The telegraph system at the end of the same year showed a mileage of 15,900 miles, transmitted 10,840,000 messages over 30,500 miles of wire, gave employment to 9,457 persons, and showed receipts amounting to \$2,476,140.11. New lines covered 240 miles, and the Government is at present considering the laying of a direct cable line with Europe. The erection of new buildings for the use of the postal and telegraph systems as contemplated by the Government in the Province of San Juan involved an expenditure of ₧250,000 and ₧50,000 is to be spent for the extension of existing telegraph lines in that district.

The Argentine Government has established a number of wireless stations along the coast, which have been operated with flattering success.

The tide of immigration still flows toward the Republic. The figures for 1908 showed 303,112 arrivals, an increase of 46,607 over the preceding twelve months. Five pastoral colonies are to be laid out by the Government, under agreement with a German syndicate, in the territory of Santa Cruz, of which a proportion will be reserved for immigrant families to be introduced directly from Germany by the company.

#### EDUCATION.

Public instruction in the Argentine Republic is divided into three classes—primary, secondary, and higher education. Primary education is compulsory and free for children between 6 and 14 years of age. There are 5,250 public schools for primary instruction in the Argentine Republic maintained by the Federal Government, aside from the numerous schools supported by the provinces. The schools in the capital and in the territories are under the supervision of a National Council of Education, which occupies a handsome building in the city of Buenos Aires.

Secondary education is not compulsory, but it is practically free, there being only a small fee charged for registration, etc. Sixteen lyceums and 35 normal schools, situated in all the larger cities of the Republic, provide for secondary or preparatory education.

The national universities at Cordoba and Buenos Aires and the provincial universities at La Plata, Santa Fe, and Parana provide

higher education, with faculties for law and social sciences, medicine, exact, physical, and natural sciences, and philosophy and literature.

A National School of Commerce, situated in the city of Buenos Aires, instructs expert accountants and translators, while a School of Mines (in the city of San Juan), the Agrarian and Veterinary School at Santa Catalina (Province of Buenos Aires), the Viticultural School at Mendoza, the National School of Pilots, and the commercial schools at Cordoba and Bahia Blanca are either maintained or subsidized by the National Government.



PRESIDENT MITRE SCHOOL, BUENOS AIRES, ARGENTINE REPUBLIC.

This commodious and well-equipped edifice was specially constructed by the Federal Government for use of the primary and grammar grades. The public school system of Buenos Aires is under the control of a school board, and primary instruction is obligatory.

A number of scholars from each province are annually sent abroad at the expense of the Government to complete their studies at the various colleges and universities of the United States, England, Germany, France, and Italy, there being at the present time 30 of these students in the various universities and colleges of the United States.

Numerous private schools established in every section of the country also provide educational advantages.

The Industrial School of Buenos Aires, which has recently removed to new and extensive quarters, is also maintained by the National Government. It has elaborate workshops, and provides

for the teaching of all trades and crafts, being equipped with all the necessary machinery and appliances.

The National Conservatory of Music and the School of Drawing, as well as the School of Art, are other institutions enjoying the official support of the Argentine Government, while a number of libraries are open to the public. The National Museum of History, the Museum of Fine Arts, and the Museum of Natural History at Buenos Aires and the famous Museum of La Plata are other interesting institutions.

The Government maintains agricultural stations at Tucuman, Bella Vista, San Juan, and Terna. A well-kept botanical garden, situated in the Park of Palermo, Buenos Aires, affords opportunity for the study of horticulture, and the Zoological Garden, in which can be found representatives of all species of animals from all parts of the globe, is one of the most popular resorts of the people of Buenos Aires.

Numerous literary, scientific, industrial, commercial, and agricultural societies exist throughout the country, some of which publish bulletins containing valuable information and arrange lectures and debates, while others, such as the *Sociedad Rural*, hold annual expositions, attended by all the well-to-do Argentinians, and forming a social event of the year.

The press is well represented in the Republic, there being several newspapers printed in even the smallest towns, while in the city of Buenos Aires there are 472 publications of all kinds, 66 of which are dailies, 16 triweeklies, 44 biweeklies, 191 weeklies, and 64 monthlies, others being irregularly issued. The press of the city of Buenos Aires is the most polyglot of any city in the world, there being 412 publications in the language of the country (Spanish), 22 in Italian, 8 in French, 8 in English, 8 in German, and 1 in Arabic. The Danish, Norwegian, Swedish, Basque, Russian, Dutch, etc., colonies all have their respective organs.

"*La Prensa*," a Buenos Aires daily, holds high rank among the world's publications. Next in importance is "*La Nación*," founded in the year 1870 by the famous Argentine statesman, Don BATOLOMÉ MITRE, while "*El Diario*" is the principal evening paper. Other Spanish papers of importance are "*El País*," "*La Razón*," "*La Argentina*," "*Tribuna*," "*El Tiempo*," "*El Pueblo*," etc. The largest English dailies are "The Standard," "The Buenos Aires Herald," and "The Southern Cross." Among the English weeklies "The Review of the River Plate" and "The Times of Argentina" are the more important, both of these being devoted to the shipping and financial interests of the country. Among the weeklies printed in Spanish, "*Caras y Caretas*" deserves especial mention, being, as it is, an entirely unique production, which is extremely popular in Argentina, with a circulation of about 80,000. "*La Ilustración Sud-Americana*," a handsomely illustrated monthly, is one of the best produc-

tions of its kind, while "*La Revista de Derecho, Historia y Letras*" is a literary production of the highest order.



A PRIVATE RESIDENCE OF BUENOS AIRES.

Buenos Aires is noted for the beauty of private residences. Wealthy landowners and ranchers of the interior spend a large portion of the year in the capital, and to a large extent business management of the country is concentrated in this city, which is embellished, in consequence, with magnificent and costly private homes.

The Centennial Exposition to be held in Buenos Aires in 1910 will give the world an opportunity to observe at close range the vast possibilities of the country as well as its purchasing power.



GRAND STAND, RACE COURSE, BUENOS AIRES.



# BOLIVIA

The Republic of Bolivia, the third largest of the South American Republics, is one of the two countries on the American continent which possess no seacoast. Completely surrounded by the Republics of Peru, Chile, Argentina, Paraguay, and Brazil it extends over 709,000 square miles, equal to the combined area of Washington, Oregon, California, Nevada, Utah, Idaho, and Arizona. It has a population of 2,267,935, or 3.2 per square mile, as against 23.2 per square mile in the United States of America, and is the most sparsely populated of any of the American Republics. The vast plateau which extends in length over 500 miles, at an average altitude of 12,000 feet above sea level, and on which are situated most of the larger cities of the Republic, is the most noted topographical feature of the country.

The mountains of Bolivia abound in mineral wealth, tin, silver, gold, copper, etc., and these form the principal products of export. Coffee, cacao, tobacco, sugar cane, and other crops are successfully cultivated. The forests contain numerous species of valuable woods, best known of which are the *hevea brasiliensis* and the *castilloa elastica*, from which india rubber is gathered; the *erythroxylon coca*, the leaves of which are used for medicinal purposes; and the well-known cinchona tree, the bark of which is used for the manufacture of quinine.

## HISTORICAL SKETCH.

PIZARRO having conquered the Inca Empire, invaded the territory of what is now Bolivia in 1532, finding there a race of peaceable Indians, whom he subdued with comparative ease. He divided the country between his brothers, HERNANDO and GONZALO PIZARRO, who soon enforced the customary system of "encomiendas," whereby a certain number of Indian slaves was granted to each settler, and these unfortunates made to labor for the benefit of their oppressor. When the rich silver mines were discovered the country was rapidly settled by numerous adventurers, but so cruel and exacting became the settlers in their greed for gold and silver that the Indians revolted, and in the year 1870, led by TUPAC AMARU, the last descendant of the Incas, killed the Spanish authorities and drove some of the settlers out of the country. They were, however, ultimately overcome, and TUPAC AMARU and all of his family executed in the most barbarous manner.

The first and the last blood spent in the struggle of the Spanish colonies against Spain for independence was shed on Bolivian soil.

This contest began on March 25, 1809, when the inhabitants of La Paz deposed the Spanish authorities, and ended when independence was finally achieved in the year 1825 through the combined efforts of BOLIVAR, SAN MARTIN, and SUCRE.

The battle of Ayacucho, December 9, 1824, in which the Spanish forces were almost annihilated, practically decided the fate of Bolivia, and on April 1, 1825, General SUCRE completely routed the last Spanish forces in Upper Peru (Bolivia), compelling them to abandon the country.

A constitutional congress met at Chuquisaca on August 6, 1825, and, declaring that upper Peru should thereafter be free and independent, adopted the name of Bolivia, in honor of Gen. SIMÓN BOLIVAR, the liberator. The constitution, which had been drafted by BOLIVAR, was adopted with some amendments and formally proclaimed on November

19, 1826, General SUCRE being elected President for a term of two years. He was succeeded by General SANTA CRUZ, who, in the year 1835, involved Bolivia in the first war with Chile, which ended in 1838. Bolivia was not, however, to enjoy peace for any length of time, for under the Presidency of General DAZA, in the year 1879, war again broke out with the Republic of Chile, being formally declared by Bolivia on April 5, 1879. A treaty of peace was signed between the two countries on November 24, 1884, whereby Bolivia ceded to Chile the Province of Antofagasta.



SR. DON ELIODORO VILLAZÓN,  
PRESIDENT OF BOLIVIA.

On March 21, 1905, a further treaty was negotiated between the two countries, whereby Chile agreed to build a railway from the port of Arica to the city of La Paz, the capital of Bolivia, which will become an important outlet for the products of Bolivia.

On November 17, 1903, Bolivia ceded to Brazil the territory of the Acre for a consideration of \$10,000,000. This sum is now being invested by Bolivia in railways and other public works.

Dr. FERNANDO E. GUACHALLA was elected President for the term beginning August 6, 1904, but died before he could assume the duties of the office, and JOSÉ ISMAEL MONTOS was designated by Congress to retain the position pending a new election. Dr. ELIODORO VILLAZÓN was elected to assume the office on August 6, 1909.

#### CONSTITUTION AND GOVERNMENT.

Under the constitution, which was promulgated on October 17, 1880, the Republic of Bolivia adopted the democratic representative form of government, the people delegating their power to three dis-



tinct and coordinate branches of government—legislative, executive, and judicial.

The Legislature consists of two houses, the Senate and the Chamber of Deputies, the former consisting of 16 and the latter of 72 members. Senators are elected for six years and deputies for four years, but both houses are renewed every two years, the Senate by thirds and the Chamber of Deputies by halves. Both senators and deputies are elected by direct vote of the people.

The President and two Vice-Presidents are elected for a term of four years and may not be reelected for the term immediately following the incumbency of their respective offices.

The judiciary consists of one national supreme court composed of seven judges, the superior district courts (one in each department), the provincial courts, and parochial courts.

President.....	DR. ELIODORO VILLAZÓN.
First Vice-President, President of the Senate.....	DR. MACARIO PINILLA.
Second Vice-President.....	DR. J. MISAEEL SARACHO.
Minister of Foreign Affairs.....	SR. BENEDICTO GOYTÍA.
Minister of Development and Promotion.....	DR. JOSÉ CARRASCO.
Minister of Treasury and Industry.....	DR. A. DIEZ DE MEDINA.
Minister of Justice and Public Instruction.....	DR. D. SANCHEZ BUSTAMENTE.
Minister of Colonization and Agriculture.....	DR. ISAAC ARANIBAR.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the president is Bs 18,000 per annum (\$7,200).

#### INTERIOR GOVERNMENT.

For administrative purposes the country is divided into eight Departments, which are again divided into provinces, the latter into cantones or districts, and these again into municipalities.

The Departments are governed by a prefect, appointed by the President of the Republic for a term of four years, while the provinces are governed by a subprefect, also appointed by the President for a term of four years, as are the other authorities. A *consejo municipal* or municipal board is elected by the people for each municipal district or town, to assist the authorities appointed by the President.

The following are the Departments of Bolivia and their respective capitals:

Department of—	Capital.
Beni.....	Trinidad.
Chuquisaca.....	Sucre.
Cochabamba.....	Cochabamba.
La Paz.....	La Paz.
Potosí.....	Potosí.
Oruro.....	Oruro.
Santa Cruz.....	Santa Cruz.
Tarija.....	Tarija.

The largest city and commercial center of Bolivia is the city of La Paz, with a population of 80,000. Other cities with a population of over 20,000 are Sucre, Cochabamba, Santa Cruz, and Oruro.

## BOLIVIA IN 1908.

Bolivia's economic advance under President MONTES, whose term of office expired in 1908, was noteworthy and the continuance of his enlightened policies seems secured under the administration of President VILLAZÓN. Cordial relations were maintained with the nations of the Old and New World, and satisfactory conditions characterized the commercial and industrial position of the country.

### FOREIGN AFFAIRS.

In July, a commercial treaty with Germany was arranged providing for reciprocal favored nation treatment in all matters relating to import, export, and transit conditions. The treaty is to remain in effect for ten years unless denounced within a specified period. Other international pacts entered into are a commercial treaty with Great Britain, an extradition treaty with Belgium, and adherence by the Government to the International Telegraphic Convention of St. Petersburg, through all of which important advantages were obtained.

The evidence in the boundary question with Peru has been submitted, and the arbitral award in the case made by the Argentine President. The convention of January 30, 1908, regulating trade in transit through Peru is now in force, a custom-house at the Peruvian port of Mollendo having been constructed solely for the use of Bolivian trade.

The work of delimiting the frontier with Brazil made satisfactory progress, and the development of closer relations with that republic is to be fostered through the conclusion of a commercial treaty.

New regulations to the great advantage of Bolivian traffic have been made for the transit trade through Argentine territory. A consequent stimulus to business between the two countries will result.

In recapitulating the results of the last presidential period no fact is more noteworthy than the provision made for the outlet of Bolivian products both on the Pacific and Atlantic through treaties and conventions made and projected with the neighboring Republics of Chile, Peru, Brazil, and the Argentine.

### FINANCE.

The budget for the year 1908 showed revenues of \$8,000,000 and expenses of \$9,000,000, leaving a deficit of \$1,000,000. The revenues for 1909 are estimated at \$6,283,000.

**- BOLIVIA -**

U.S. GOLD      0      \$1,000,000.      \$2,000,000.      \$3,000,000.      \$4,000,000

GERMANY	\$4,083,012.				
UNITED STATES	3,265,651.				
ENGLAND	2,635,383.				
CHILE	1,500,031.				
FRANCE	1,064,618.				
ARGENTINA	954,440.				
ITALY	569,426.				
BELGIUM	559,470.				
PERU	470,853.				
SPAIN	129,868.				
URUGUAY	45,758.				
BRAZIL	44,818.				
PORTUGAL	22,673.				
HOLLAND	18,376.				
PARAGUAY	3,180.				
SALVADOR	626.				
AUSTRIA-HUNGARY	467.				
CUBA	261.				
CHINA	29.				
OTHERS	924,748.				

**- IMPORTS IN 1908 -**

127172

B115

Bolivia has in effect adopted the pound sterling as the monetary basis, the *boliviano* being valued at 19½d. Since the year 1905 the pound sterling has been current at this rate, now fixed by law. Monetary reform made further progress in 1908 through another act of Congress which declared silver currency simply an adjunct of gold, reserved to the Government the right to coin silver for circulation to the extent of 4,000,000 *bolivianos*. The Government secured a loan of \$2,500,000, the proceeds of which were used in the payment of the internal debt, the installation of machinery in the mint, and the erection of public buildings. A special sinking fund amounting to 603,300 *bolivianos* annually was created to meet the interest and amortization of the bonds. Under decree of the Government the exportation of gold coins free of duty was permitted and a further decree fixed the proportion of customs duties payable in gold, assessing the value of the Peruvian pound when tendered in settlement of these duties at 12.50 *bolivianos*.

On December 31, 1908, the five principal banks of Bolivia had silver coin on hand to the value of \$516,600.

#### COMMERCE.

For the past four years Bolivia has enjoyed a period of steadily increasing commercial activity. While the aggregate of transactions for 1908 did not reach the proportions of the previous year, the trade balance remained still in favor of the Republic. The trade volume totaled \$33,837,000, exports amounting to \$17,514,000 and imports to \$16,323,000. Although these figures as compared with 1907 showed a decline of \$1,454,600, the gain in imports was a notable feature of the year's transactions. The fact that, despite the decrease in value of its own products in foreign markets and resultant falling off in its exports, Bolivia was able to increase its purchasing power by over \$1,000,000 may be taken as ample evidence of its economic development.

Tin, the most important item on the list, was shipped abroad to the value of \$13,800,000, a decline of \$156,400 as compared with the previous year. Silver shipments showed an increase of \$209,400, reaching a total of \$2,802,000. Rubber shipments showed a decline amounting to nearly 50 per cent, the valuation for 1908 being given as \$1,962,000, an indicated loss of \$1,574,000. The amount shipped in 1908 was 1,640 tons, approximately 830 tons going to Great Britain, 485 to Germany, 165 to Belgium, 120 to France, and 25 to the United States. Exports of copper showed a decrease of \$531,700; bismuth, \$123,200; while gold showed a gain of \$20,600.

Bolivia's imports from the United States showed a total of \$687,307 as compared with \$1,502,622 for the previous year. This decline,

however, may be attributed to a natural result of world-wide economic conditions, from which conditions the figures for imports in January, 1909 (\$98,000), indicated a speedy recovery. Trade with Germany shows a satisfactory increase during recent years, Bolivian exports to that country, entering through the port of Hamburg, having advanced from \$1,781,000 in 1905 to \$3,404,000 in 1907.

Of the importations for 1907, Germany furnished 16 per cent, the United States 14 per cent, Great Britain 10 per cent, Chile 7 per cent, France 5 per cent, Peru 4 per cent, and Belgium and Italy 3 per cent each, with other countries in a diminishing ratio.

#### PRODUCTION AND INDUSTRIES.

It is upon her mineral wealth that the Republic mainly depends, and present conditions all point to increased activity in the exploitation of these resources through the constantly increasing foreign demand for the mine products of the country.

The mineral wealth of Bolivia, including nearly all known metals, is widely distributed and very rich and abundant. Great veins of ore containing the precious metals are found in the mountains of the Republic, and while their exploitation is carried on on a considerable scale, yet, due to the lack of labor and capital and adequate transportation facilities, they are not fully developed and in many instances remain entirely virgin. The copper mines of Corocoro and the tin and bismuth mines of the Republic are among the richest in the world.

Bolivian tin, assaying 60 per cent pure, is regulated in price by the Straits product, and the first decline in the price of the latter, reported early in 1908, resulted in a consequent reduction in the value of the country's output. The yield for the year was given as 30,000 tons, worth \$10,756,800, as compared with 28,000 tons, worth \$11,956,800, in 1907, the decreased valuation being caused by a 25 per cent decline in price.

The chief tin-mining center is Huanuni and the leader in production in 1908 was the San Salvadora mine, a small property adjoining the Llalagua. The latter has a monthly output of 400 tons. Much of the ore produced carried silver in small quantities. The Government has imposed an export duty on copper and bismuth, payable fortnightly, under the direction of the Secretary of the Treasury.

The principal mineral zones now being exploited on a large scale are: First, the extensive region which, commencing in the basin of the Inambari river, extends from the western confines of the country to Upper Paraguay, and contains within its boundaries the famous placers of San Juan del Oro, Suches, Tipuani, and a number of others equally important. The second district commences in Lipez

and continues southward through Chayanta, Sur Chichas, Mendez, Cinti, and Acero and terminates in the plains of Santa Cruz. The third zone, which is the richest and most important, extends to Carabaya Peru, and to the sources of the Madre de Dios, Acre, and Purus rivers.

From 1540 to 1750, a period of two hundred and ten years, the gold mines of Bolivia produced \$2,100,000,000. From 1750 to the beginning of the nineteenth century, the mines and placers situated in the provinces of Larecaja and Caupolican produced \$14,000,000, gold, and from 1818 to 1868 the output was 150,770 ounces of gold. The product of the other mines and placers of the nation, from the middle of the eighteenth to the latter part of the nineteenth century, is estimated at \$125,000,000. The annual gold production of Bolivia may be calculated at 17,460 troy ounces, which, at \$20 an ounce, gives a value of \$349,200. The 1907 shipments of bismuth aggregated 153 tons; of copper ingots and ore 3,469 tons; and of silver 149 tons.

Although the production of India rubber showed a very marked decline from the previous year, this industry must still be counted as one of the most important and certain sources of national wealth. The largest rubber-producing districts are located in the national territory of Colonias, the Departments of Beni and Santa Cruz and portions of La Paz and Cochabamba. The two last-named districts also cultivate cacao and coffee while the two former contribute other valuable vegetable products. Upland rice is grown to some extent in the provinces of Azero and Cordillera. A large area of the Republic is well suited to the cultivation of wheat which might be grown in quantities sufficient to meet the needs of the home market, but as yet this branch of agricultural development has been little exploited. This cereal was formerly grown to a considerable extent in the District of Cochabamba, but of late years, due to drought and other causes, cultivation has practically ceased. The present Government, impressed with the importance of stimulating agriculture in the Republic, has imported wheat of superior quality from the United States and Argentine Republic for the purpose of supplying a high grade of seed to home growers.

Cattle, sheep, and llamas are abundant, and to foment the livestock industry of the country, on February 1, 1909, the Secretary of Colonization and Agriculture inaugurated the National Veterinary Institute.

#### RAILWAYS.

The present extent of railway in the Republic is about 400 miles of trunk lines, permitting direct travel from Lake Titicaca to Antofagasta, via Oruro, on the coast of Chile. Branch lines are being constructed from Oruro to Cochabamba and Potosi, and new lines have

been located from Potosi to Tupiza and from La Paz to Puerto Pando. Preliminary work on the railway from Brazil to the Beni region, in the northern part of the Republic, has been commenced. The road as projected will be about 308 miles in length and penetrate a country rich in rubber, cabinet woods, and other forms of natural wealth. The road from Arica, Chile, to La Paz is now under construction, work being carried on in five sections of the line, of which 335 kilometers are in Chilean territory. A joint commission was appointed to inspect the completed section of the line and to examine the construction of the remainder.

On December 1, 1908, President MONTES signed the law recently passed by the Bolivian Congress embodying the changes in the Bolivian Railway Company's concession asked for by the syndicate of capitalists interested in this enterprise. This law will permit the consummation of an agreement between the syndicate and the Antofagasta Railway of Chile and Bolivia.

Communication is carried on between Mollendo, on the Pacific, and La Paz by means of a railroad running from Mollendo to Puno, Peru, on Lake Titicaca, and from thence by boat to Guaqui, Bolivia, and by rail and tramway from the latter point to La Paz.

There is river communication from Villa Bella, Bolivia, to Para, Brazil, on the Amazon River, near the Atlantic Ocean, a distance 2,516 miles, the trip being made in three hundred and fourteen hours. From Para to Lisbon, which is distant 3,263 maritime miles, the journey is made in twelve days.

Communication is had with Montevideo and Buenos Aires by means of the Plate, the Parana, and Paraguay rivers to the Bolivian Port of Suarez, a distance of 1,740 miles, eight days being required for the journey. From Puerto Suarez to Santa Cruz, a distance of 391 miles, there is a wagon road, and from the latter place to Sucre, the capital of the Republic, a distance of 342 miles, the trip can be made on horseback in seven days.

There is rail communication from Buenos Aires to Quiaca on the Bolivian frontier, and from thence a journey of three days can be made in wagons to Tupiza, Bolivia.

The different industrial centers of the Republic are at the present time connected with each other by 1,807 miles of wagon roads.

Bolivia, being entirely landlocked, is naturally dependent on her neighbors for external means of communication. The country may be reached either by way of the west coast, with one of the many steamers calling at the ports of Mollendo, in Peru, or Arica and Antofagasta, in Chile, or via the east coast, by means of one of the numerous steamers calling at the ports of Para, in Brazil, or at Buenos Aires, in the Argentine Republic.

The principal routes to the interior of the country are as follows:

*Mollendo route.*—From Mollendo to Puno, by rail, 324 miles, twenty-two hours; from Puno to Guaqui, by steamer, crossing Lake Titicaca, 180 miles, sixteen hours; from Guaqui to La Paz, 59 miles, by rail, three hours; or a total distance of 563 miles covered in three and one-half days.

*Arica route.*—From Arica to La Paz the distance is 337 miles, which is made in seven days, as follows: Arica to Tacna, by rail, 39 miles; Tacna to Viacha, 280 miles, by mule, donkey, or llama; Viacha to La Paz, 18 miles, by rail.

*Antofagasta route.*—The total distance from the port of Antofagasta to Oruro is 573 miles, which can be covered in three days, by rail. The railway is divided into two sections—the Chilean section, from Antofagasta to Ollague, and the Bolivian section, from Ollague to Oruro, via Uyuni.

*Amazon route.*—From the port of Para, in Brazil, to Villa Bella and Puerto Acre, a distance of 2,152 miles from the former and 2,533 miles from the latter point, covered in two hundred and sixteen and two hundred and forty-four hours, respectively. The entire trip is made in vessels along the navigable rivers of Brazil and Bolivia.

*Argentine route.*—From Buenos Aires, by rail, to the Bolivian frontier town of La Quiaca, and thence by mule train to Tupiza and Tarija, a total distance of 1,850 miles. From Buenos Aires the trip can also be made by water, steamers sailing up the Paraguay River to Puerto Pacheco, Puerto Suarez, and La Gaiba, in Bolivia, being 1,553, 1,741, and 1,908 miles, respectively, distant from Buenos Aires. From Puerto Pacheco to La Paz the distance is 1,169 miles, from Puerto Suarez, 1,125, and from La Gaiba, 1,158 miles, respectively, to the city of La Paz, roads and bridle paths leading from these ports to the said city.

The time required to make the trip from New York to La Paz, via Mollendo or Antofagasta, is fifty-six days by direct steamer, or thirty-seven days with transshipment at Panama. From San Francisco to La Paz the trip can be made in forty-three days by direct steamer.

Bolivia has a net of rivers, which afford excellent means of transportation and communication, the entire length of her navigable rivers being about 12,000 miles. Of these, the Paraguay River is navigable for some 1,100 miles for steamers of 8 to 10 feet draft, the Itenes for 1,000 miles, the Beni likewise, but for steamers of 6 feet draft only, while the Pilcomayo, Mamore, Madre de Dios, Itonama, Sara, Orton, Baures, Inambary, Paragua, Pirai, Chapare, Abuna, Yacuma, and Rio Desaguadero are all navigable for light-draft vessels for distances varying from 200 to 1,000 miles.



A regular line of steamers is maintained on Lake Titicaca, situated at an altitude of 12,900 feet and having an area of 4,000 square miles, being thus not only the highest, but also one of the largest lakes on the American continent. Lake Aullagas is connected with Lake Titicaca by means of the Rio Desaguadero. The principal open ports on Lake Titicaca are Escoma, Ancoraimes, Huata, Puerto Perez, Carabuco, and Guaqui or Huaqui.

A number of steamers, launches, and other river craft afford transport on nearly all of the navigable rivers, especially on the Madre de Dios, Beni, Mamore, and their respective tributaries, while on the Bermejo River a regular line of steamers plies between the cities of Esquina Grande and Rivadavia, thus establishing connection with the Argentine Republic.

A decree dated November 13, 1908, authorizes the establishing and maintenance, for a period of ten years, of an automobile service for the carriage of goods between the points at present reached by the Central Northern Argentine Railway in La Quiaca and the towns of Uyuni, Tupiza, Potosi, and Sucre. No import duties will be levied on the importation of any material necessary for the service during the term of the concession.

#### POSTS AND TELEGRAPHS.

The postal and telegraph services showed satisfactory progress during 1908 and various improvements were marked by increased efficiency in both departments. In the postal service new offices were created in different parts of the Republic, and in the telegraphic service the reconstruction and repair of existing lines, the construction of numerous additions to existing mileage, and the opening of 5 wireless telegraph stations marked the progressive spirit of the Government.

Bolivia is a member of the Universal Postal Union, and correspondence is dispatched to all countries belonging to that Union. There are 277 postal employees and 192 post-offices in the Republic, the main post-office being at La Paz. In 1908 the number of pieces of foreign mail matter received was 988,923, and the number of pieces sent abroad during the same period aggregated 375,318.

The telegraph system of the Republic comprises 2,986 miles, 2,088 miles of which are the property of the State, operating 113 offices. Telegraph lines run to all the capitals of the Departments, and the Government has under consideration the equipment of several high-power wireless stations.

Bolivia does not belong to the Universal Telegraphic Union. Telegraphic communication is had with Peru, Chile, and the Argentine Republic, and cable communication over the lines of the Central

and South American Telegraph Company, via Iquique, the West Coast American Telegraph Company (Limited), via Mollendo, and the overland route via Tupiza and Buenos Aires.

Immigration of a desirable class is being encouraged. A pamphlet concerning the immigration laws of the Republic has been translated into German and widely distributed throughout the Empire with a view of attracting German immigrants, and a decree, under date of January 29, 1909, provided for the founding of the "Colonia Warnes" for foreign immigrants in the neighborhood of Puerto Suarez, Chiquitos Province, Department of Santa Cruz. A town covering an area of 19 hectares has been laid out in lots which, after reservation has been made of land for public purposes, will be awarded to colonists. Provision has been made for 64 families by the Department of Agriculture on the basis of an allotment of 100 hectares to each family.



GOVERNMENT BUILDING IN SUCRE, ONE OF THE PRINCIPAL CITIES OF BOLIVIA.



# BRAZIL

The Republic of the United States of Brazil is the largest of the South American countries and the second largest of the American Republics, extending over an area of 3,218,130 square miles, or about 380,000 square miles less than the United States of America with Alaska. Not including Alaska the area of the United States is about 200,000 square miles less than Brazil, which thus becomes the largest of the American countries. It is situated between latitude  $4^{\circ} 22'$  north and  $33^{\circ} 45'$  south and longitude  $34^{\circ} 40'$  and  $73^{\circ} 15'$  west, being bounded by British, French, and Dutch Guiana, the Republics of Venezuela, Colombia, Ecuador, Peru, Bolivia, Paraguay, Uruguay, the Argentine Republic, and the Atlantic Ocean. Brazil has a population of 19,910,646, equal to 6.2 per square mile, or something more than one-fourth the population per square mile of the United States of America.

Lying almost entirely within the torrid or tropical zone, the climate of Brazil is nevertheless considerably modified by the numerous high table-lands and mountain chains, as well as by its vast and extensive hydrographic system. These extensive, fertile plains produce all of the fruits of the Tropics and contain luxuriant and almost impenetrable forests. Coffee, rubber, cacao, and the excellent red dyewood known as "Brazil wood" are the principal articles of export, while cotton, sugar cane, tobacco, yerba maté, oranges, and other fruits are also extensively shipped. The forest wealth of Brazil has as yet hardly been tapped, and it is said that no other region in the world contains such a variety of useful and ornamental timber and medicinal plants. A number of precious metals and minerals are found, and it is one of the few countries possessing diamond mines.

## HISTORICAL SKETCH.

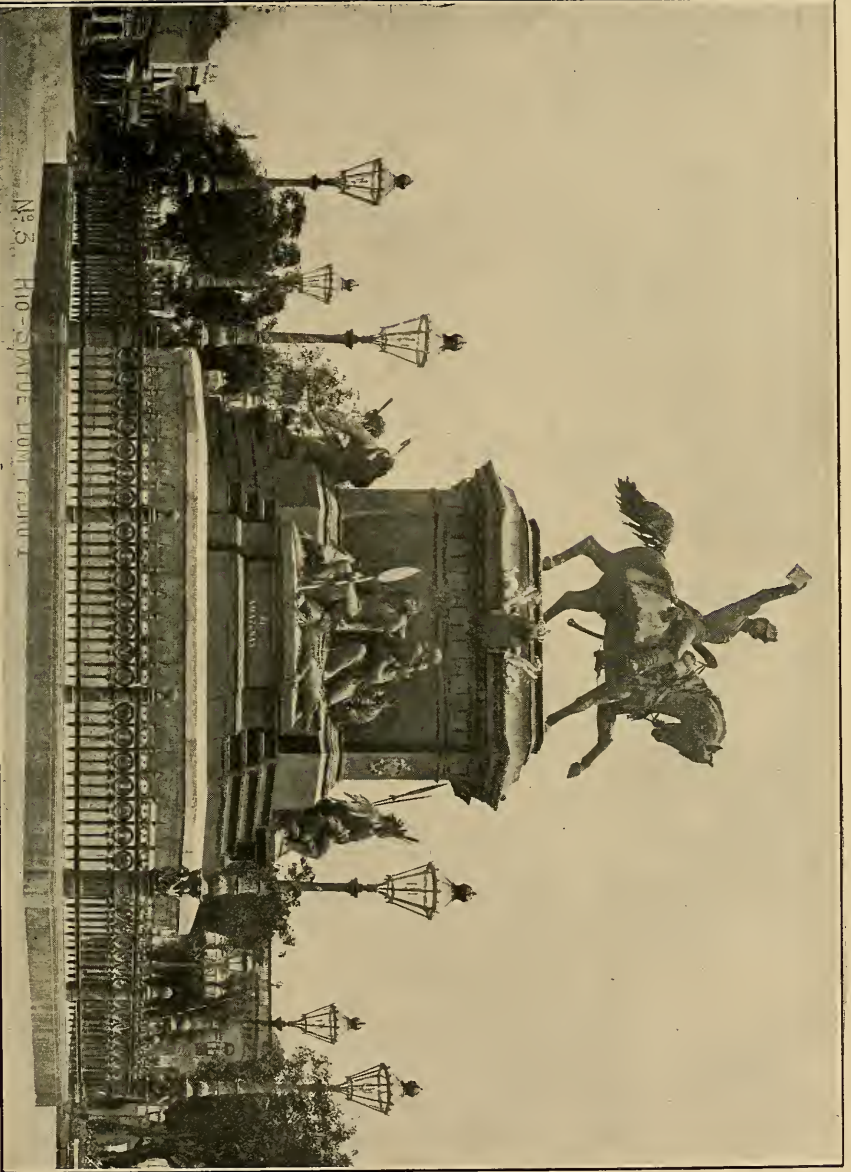
PEDRO ALVAREZ CABRAL, a Portuguese navigator, is usually given the credit of having discovered Brazil, when, on April 22, 1500, he landed not far from the present site of the city of Bahia, although several other navigators are said to have touched the Brazilian coast some years before. CABRAL named the country "Terra da Santa Cruz," or "Land of the Holy Cross," and taking possession of it in the name of the King of Portugal proceeded to explore it, but no attempt was made to settle the country until the year 1549, when THOMAS DE SOUZA was appointed governor-general. The country had then become known as Brazil from the red dyewood found in its forests, which, at that time was brought from the East and was

commercially known as "Brazil wood," which name it has retained ever since.

The Portuguese Crown divided the country, making grants of land to Portuguese nobles, who were to settle and colonize and who received a number of Indian slaves in addition to the land. With THOMAS DE SOUZA came the first Jesuits, who soon became important factors in the history of Brazil, and who succeeded in obtaining complete control over the aborigines, gathering them in their missions and colonies. To prevent the Indians being enslaved by the colonists, the Jesuits recommended and fostered the importation of African slaves, thousands of whom were imported from the African coast during the sixteenth and seventeenth centuries.

Between the years 1555 and 1640, the country suffered numerous invasions from the French, Dutch, and British, who sought to gain a foothold on Brazilian soil. In the former year Admiral VILLEGaignon established a colony of French Huguenots on an island in the Bay of Rio de Janeiro, which island now bears his name. He maintained himself here until the year 1560. The most important of these invasions, however, was that of the Dutch, who, in the year 1631, took possession of Pernambuco, also called Recife, and gradually extended their power over a considerable portion of Brazil. Prince MAURICE of Nassau was appointed governor of the Dutch possessions in Brazil in 1636, and it was not until the year 1648 that the Dutch were finally forced to evacuate Pernambuco and abandon the country.

In 1640 Brazil became a viceroyalty, with the Marquis DE MONTALVO viceroy and Rio de Janeiro the capital. When, early in the nineteenth century, NAPOLEON invaded Spain and Portugal, the ruler of the latter country, King JOHN, preferred to retire to his American kingdom. He arrived at Rio de Janeiro on March 8, 1808, with all of his family and court and opened the ports of the country to the commerce of the world. The centennial of this opening has recently been celebrated in Rio de Janeiro by an exhibition of Brazilian products. King JOHN established schools and in general promoted the interests of his colony. When, in the year 1821, he returned to Portugal, he appointed his eldest son, Dom PEDRO, regent of Brazil. Dom PEDRO was in sympathy with the movement for independence from Portugal, which he encouraged and fostered. On September 7, 1822, he formally proclaimed Brazil to be free and independent, and was, on October 12, 1822, solemnly crowned as Emperor. Under his wise rule and that of his able prime minister, JOSÉ BONIFACIO D'ANDRADE, Brazil prospered and developed her vast natural resources. Dom PEDRO I reigned for nine years, and on April 7, 1831, abdicated the throne in favor of his infant son, Dom PEDRO II. A regency was appointed, which continued until the year 1840, when the young Emperor became of age and was crowned.



STATUE OF DOM PEDRO I, RIO DE JANEIRO, BRAZIL.

Dom Pedro, the son of King John, of Portugal, espoused the cause of Brazil in the struggle for independence, and became its first emperor under the Constitution. In 1831 he abdicated the throne in favor of his son, Dom Pedro II, who reigned until the establishment of a Republic in 1889.

Dom PEDRO II reigned until the year 1889, when the people of Brazil resolved to change their form of government from a monarchy to a republic. This was accomplished without bloodshed on November 15, 1889, when the Emperor abdicated and the Republic was proclaimed.



DR. NILO PEÇANHA,  
PRESIDENT OF BRAZIL.

Marshal DEODORO DA FONSECA was placed at the head of the provisional government. This government remained in control until a constitutional congress which met at Rio de Janeiro proclaimed the constitution of the United States of Brazil on the 24th of February, 1891, and elected Marshal DA FONSECA President of the Republic. FONSECA resigned his office on November 23 of the same year in favor of the Vice-President, Don FLORIANO PEIXOTO, who was succeeded in 1894 by Dr.

PRUDENTE DE MORAES BARROS, in 1896 by Dr. CAMPOS SALLES, and in 1902 by Dr. RODRIGUEZ ALVES. The present incumbent, Dr. NILO PEÇANHA, succeeded to office on the death of President AFFONSO PENNA, in June, 1909.

#### CONSTITUTION AND GOVERNMENT.

Under the constitution of the Republic of the United States of Brazil the Government is a federal union of states, republican, and representative. Brazil is thus one of the five federated republics of the American Continent, the other four being the United States, Mexico, Venezuela, and the Argentine Republic.

The Federal Government is divided into the legislative, executive, and judicial branches, the former consisting of two houses, the Senate and the Chamber of Deputies. The Senate has 63 members, 3 for each State and 3 for the federal district, elected by direct vote of the people for a term of nine years, but the Senate is renewed by thirds every three years. The Chamber of Deputies has 212 members, elected in the same manner as are the senators and in the proportion of one for every 70,000 inhabitants, for a term of three years.

The executive power is vested in a President, assisted by a Cabinet of six secretaries of state. The President and Vice-President are elected for a term of four years, by direct vote, and may not be reelected for the term immediately following their own. All male citizens over 21 years of age are entitled to vote.

The judicial power is vested in the national supreme court and the superior courts, one of which latter is located in the capital of each State. The former court is composed of 15 justices, appointed by the President of the Republic with the advice and consent of the

Senate, while the members of the latter courts are appointed upon recommendation of the supreme court. All federal judges hold office for life.

The union is composed of 20 States, 1 national territory, and the federal district. The States are entirely autonomous in their interior administration, even to the extent of levying their own export duties. The Federal Government is entitled to collect import duties, and also stamp taxes, postal rates, etc. The federal district, which includes the city of Rio de Janeiro, is governed by a prefect, appointed by the President of the Republic for a term of four years. The prefect is assisted by a municipal council, elected by the people.

Following are the States with their respective capitals:

State of—	Capital.
Alagoas.....	Maceió.
Amazonas.....	Manáos.
Bahia.....	Bahia or São Salvador.
Ceara.....	Fortaleza.
Espirito Santo.....	Victoria.
Goyaz.....	Goyaz.
Maranhao.....	Maranhao.
Matto Grosso.....	Cuyabá.
Minas Geraes.....	Belle Horizonte.
Para.....	Belem or Para.
Parahyba do Norte.....	Parahyba.
Parana.....	Curitiba.
Pernambuco.....	Pernambuco or Recife.
Piauly.....	Therézina.
Rio Grande do Norte.....	Natal.
Rio Grande do Sul.....	Porto Alegre.
Rio de Janeiro.....	Nitheroy.
Santa Catharina.....	Florianopolis or Desterro.
São Paulo.....	São Paulo.
Sergipe.....	Aracajú.
Federal district.....	Rio de Janeiro.

The national territory, ordinarily known as the Acre country, was acquired from Bolivia by the treaty of November 17, 1903, and in consideration of the sum of \$10,000,000.

President.....	Dr. NILO PEÇANHO.
Minister of Foreign Affairs.....	Baron DO RIO BRANCO.
Minister of War.....	Gen. CARLOS EUGENIO DE A. GUIMARÃES.
Minister of Marine.....	Admiral ALEXANDRINO FARIA DE ALENCAR.
Minister of Finance.....	Dr. LEOPOLDO BULHOES.
Minister of Justice and the Interior.....	Dr. ESMERALDINO BANDEIRA.
Minister of Industry and Public Works.....	Dr. FRANCISCO SA.
Minister of Agriculture.....	Dr. CANDIDO RODRIGUES.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is 120,000 milreis, equivalent to \$40,000 gold per annum.

## BRAZIL IN 1908.

For Brazil the year 1908 was both pacific and prosperous, and in the most important elements of national strength this important South American Republic made decided progress under the able and careful administration of Dr. AFFONSO PENNA, whose death in June, 1909, was a distinct loss to the nation. His successor in office, Dr. NILO PEÇANHA, had previously filled the office of Vice-President. Brazil is admittedly one of the most munificently endowed countries on the globe, and during the twelve months much was done in the way of development of natural resources, particularly through the construction of railroads and harbor improvements. The ratification of the general arbitration treaty with the Argentine Republic and the adjustment of the boundary question with Dutch Guiana marked the satisfactory arrangement of two matters of political significance, while the floating of the São Paulo coffee loan indicated clearly the policy of the Government in maintaining in the world's markets the position occupied by the country's greatest product. The merits of the project have naturally given rise to considerable discussion, and it is yet to be seen whether the results will be beneficial to the Brazilian planters, and to those of São Paulo in particular. The actual receipts from the project, including loans and taxes, amounted to upward of \$100,100,000. The State of São Paulo is also the owner of 8,400,000 bags of coffee stored principally in foreign ports. The crop for the season of 1907-8 was slightly in excess of 10,000,000 bags, as compared with 20,000,000 the previous year. The estimate for 1908-9 fixes the production at from 10,000,000 to 13,000,000 bags. While officially claiming that valorization has maintained the price of coffee, the financial situation engendered by the project is frankly faced by the São Paulo government and the necessity of the loan and the new tax fully realized.

One of the events of historical and commercial significance of the year was the National Exposition held at Rio de Janeiro in commemoration of the centenary of the opening of the ports of Brazil to international commerce. The exposition was a valuable demonstration of the growing activities of Brazilian production and led to a discussion of the advisability of celebrating, in 1922, the centenary of the independence of the country by an international exposition, in which the nations of the world will be invited to participate.

Consideration of the unprotected situation of the extensive seaboard of the Republic has resulted in steps being taken by the Government to materially increase the naval strength of the country by the construction of new war ships of the most advanced type. Orders have been placed in England for 30 new vessels, including 4 battle



ships of the "Dreadnought" type, 26 cruisers, gunboats, and torpedo boats.

Apart from the measures for the protection of the great coffee output of the Republic, other projects of public utility were carried to a successful termination. Not the least in importance was the granting of a concession for the establishment of a trans-Atlantic cable service with Europe and South Africa, with the stipulation that the service must be in operation within three years.

The continuation of the tariff reduction on certain articles imported from the United States in accordance with the preferential tariff law of December, 1905, was announced by the Government, thus providing for the maintenance of the present trade current between the two countries.

#### FOREIGN RELATIONS.

The ratifications of the arbitration treaty between Brazil and the Argentine Republic, signed at Rio de Janeiro, September 7, 1905, were exchanged at Buenos Aires December 5, 1908, and during the year arbitration agreements were signed with the United States, Portugal, France, Spain, Mexico, Honduras, Venezuela, and Panama. Other conventions will shortly be concluded with Great Britain, Switzerland, and other European countries. The exchange of the ratifications of the boundary treaty, signed at Rio de Janeiro May 5, 1906, between Brazil and Holland, took place at The Hague on September 15, 1908. The Mixed Commission appointed to mark the boundary between Brazil and Bolivia, in accordance with the treaty of Petropolis of November 17, 1903, has completed its labors, subject to the approval of the two Governments, while the French Government has manifested its willingness to proceed with the demarcation of the frontier along the Oyapock, in accordance with the arbitral decision of the Swiss Federal Council of December 1, 1900. Negotiations are in progress for a boundary treaty with Peru. Navigation and commercial treaties with Ecuador, Peru, and Colombia were concluded during the year, subject to the approval of their respective Governments, and similar treaties are in negotiation with Bolivia, Chile, and Peru. The conventions providing for an International Bureau of Public Health at Paris and an International Institute of Agriculture at Rome were approved by the Brazilian Government, as well as the Convention on Wireless Telegraphy, together with the protocol and respective regulations, signed at Berlin November 3, 1905.

Brazil was represented at the following congresses held during 1908: At the Ninth International Geographic Congress, held at Geneva in August; the Pan-American Medical Congress, held at Guatemala in August; the International Congress of Historical

Science, held at Berlin in August; the Fourteenth Congress of Americanists, held at Vienna in September; the Fourth International Fisheries Congress, held at Washington in September; the Sixteenth International Irrigation Congress, held at Albuquerque, N. Mex., in September; the First International Congress of the Cold Storage Industry, held at Paris in October; the First International Congress on Electric Standards, held at London in October; the First Pan-American Scientific Congress at Santiago de Chile in December; and at the International Telegraphic Conference, held at Lisbon in May. The Government will send delegates to the Conference on International Maritime Law in Brussels, also to the conference to be held at The Hague to establish uniformity of rates on international bills of exchange.

#### FINANCE.

Governmental receipts for the fiscal year 1908 amounted to \$144,300,664 and expenditures to \$143,632,368, thus showing a balance of \$668,296.

The foreign debt on December 31, 1908, was \$369,087,633.38.

The gold deposits existing in the Caixa de Conversão on December 31, 1908, amounted to \$27,154,141.92, which shows a decrease of \$3,233,542.68 over the deposits on the same date of last year.

The imports of gold coins amounted to \$688,537, while gold exports were only \$100,602.

Exchange was maintained throughout the year at an average of 15  $\frac{5}{32}$  per cent.

In the annual budget of expenditures for 1909, amounting to \$140,268,923, the appropriations of the previous year were increased by \$5,600,000. The bulk of this sum represented increased expenditures in the Departments of the Treasury, Navy, War, and Industry. The allotment for the latter department provides bounties for the encouragement of native industries, while the state legislatures have also taken measures to promote local enterprises in new directions. The progress of the republic justifies the increased federal expenditures, a large part of which is being spent on railways, the telegraph service, water supply, fortifications, ports, reduction of debt service, retirement of currency, public buildings, and strengthening the army and navy.

The estimated receipts are placed at \$125,782,952 from ordinary sources and miscellaneous receipts at \$13,631,880, a total of \$139,414,832, leaving an indicated deficit of \$854,091. These may be classified as follows: Import duties, \$79,659,000; wharf and light dues, \$246,000; 20 per cent of the export duties on Acre rubber, \$3,900,000; internal revenue, \$23,577,900; excise taxes, \$10,486,500; miscellaneous revenue, \$4,330,366. Of the total receipts, the estimated apporportion-

ment for the retirement of paper money is placed at \$6,773,186; sinking fund for the redemption of railway bonds, \$836,400; fund for ammortization of internal loans, \$924,000. The proceeds from the tax destined to the port improvement fund are estimated at \$5,004,000.

The movement throughout Brazil in favor of a revision of the tariff system, which has been under consideration by the Government, has taken definite form in the appointment of a commission to formulate a report on the subject to be presented to the Brazilian Congress at its May session. The tariff system of Brazil of the present day rests upon an act of the Congress of Brazil passed in 1900, but is, as a matter of fact, a system entirely different from the original act as a result of changes made from year to year in the annual budget or appropriation laws passed by the successive congresses. In the law of 1900 a tariff schedule was established which contemplated the collection of duties as therein set forth on an ad valorem basis as to certain goods and a specific duty as to others. The act was drawn much after the order of the Dingley tariff act of the United States except that the fact that Brazil's currency was at that time fluctuating in value between wide extremes led to a number of changes which were of vast and controlling importance.

The securities of the Republic continue to be regarded favorably by investors, and the national credit has been firmly established by an uninterrupted and punctual satisfaction of financial obligations. The successful floating of the coffee loan for \$60,000,000 and the subscription of \$20,000,000 for the Brazilian loan authorized by the decree of July 1, 1908, within twenty-four hours showed conclusively that the country has excellent credit for its requirements.

Conspicuous success has attended the efforts of the Government to raise the credit of the country to its present high standard and to appreciate the current value of its paper currency; in the first place through gradual withdrawal from circulation and incineration, and later, in December, 1906, through a fixed conversion by the creation of the Caixa de Conversão, which has now been in operation for a sufficient length of time to permit of conclusions being formed as to its influence upon the general prosperity of the Republic.

British capital invested in Brazil has proved of great benefit in developing the railroads, mines, and other industries of the country. English banks occupy the first place in Rio and in other great commercial centers of the Republic.

#### COMMERCE.

Published figures of Brazilian trade for the year 1908 show a total valuation of \$397,925,000, exclusive of specie, as compared with \$427,000,000 of the preceding year. Specie imports for the two periods are reported as \$708,000 and \$22,000,000, respectively.

Import values were \$177,450,000, against \$202,000,000 in 1907, and exports figured for \$220,475,000, as compared with \$270,000,000 in the year previous. The trade balance for the year, in spite of the general lowering of commercial values throughout the world's markets, showed the gratifying total of \$43,000,000.

The staple export items showed the following valuations: Coffee, \$115,000,000; rubber, \$56,000,000; cacao, \$9,000,000; maté, \$8,000,000; tobacco, \$4,000,000; sugar, \$1,400,000; and cotton, \$1,000,000. As compared with the record of 1907, coffee declined 9.3 per cent, rubber 12, tobacco 34.4, cacao 7.7, cotton 88.1, while exports of maté



PICKING COFFEE IN BRAZIL.

The coffee harvest begins, as a rule, in May, and the largest crops are harvested by September. To preserve the health of the pickers, the work is done in dry weather as far as possible. The picking is by hand, the berries being deposited in wicker baskets, which, when filled, are conveyed to the mill. In modern plantations the berries are conveyed to the curing house by running water through galvanized-iron spouting.

advanced 1.1 per cent and those of sugar 113.6. During the closing months of the year commercial prospects greatly improved, and the outlook for 1909 justifies the anticipation of a general recovery of values and trade returns.

The results, during 1908, of the special preferential rates accorded by Brazil to certain specified imports from the United States form the one encouraging feature of the year's commerce between the two countries. In spite of the fact that the total imports of Brazil for 1908 were about 12 per cent less than those of 1907 and that the imports of Brazil from the United States showed a loss of \$4,081,785, or about 16.5 per cent, as compared with 1907, the goods imported

subject to preferential treatment in 1908 amounted to \$2,387,593, as compared with \$2,351,326 in the preceding year, thus showing an actual gain of \$36,267, or 1.5 per cent. This gain was made in face of the fact that the imports of similar goods from all countries showed a decrease of about 5 per cent in 1908. The past two years are the only successive years in which the preferential rates have been accorded throughout the entire twelve months.

The shipments of coffee from Brazil during the crop year ending June 30, 1908, in bags, were as follows: Rio de Janeiro and Minas,



LOADING COFFEE AT SANTOS, BRAZIL.

Santos is the seaport of the State of São Paulo, Brazil, and the largest coffee-exporting center in the world. For the year ending June 30, 1908, the shipments of this article reached the enormous total of 8,456,000 bags of 132 pounds each, or a total of 1,116,192,000 pounds. The illustration shows the method of transferring the coffee from the warehouse to the wharf, each being stamped with the name of the shipper as the stevedore files past the entrance.

3,761,296; Santos, 8,456,017; Victoria, 482,553; Bahia, 230,051; other ports, 23,655; a total of 12,953,572 bags, 1,670,652,324 pounds. The total number of bags compared with 12,782,783 as the average shipments from Brazil for the last eight crop years.

Of the shipments during the season, 57 per cent went to Europe and 43 per cent to the United States. Much of the coffee sent to Europe was for deliveries in other parts of the world, while of the shipments to the United States two-thirds, as usual, went to New

York. The deliveries of coffee of all sorts in the United States during the year aggregated 7,043,595 bags, or 938,559,889 pounds, worth \$71,807,994, of which 5,710,194 bags, or 732,181,131 pounds, worth \$51,356,841, and representing a little over 81 per cent of the total, were from Brazil. These figures were practically the same as those reported for 1906-7. The deliveries in Europe for the past two years have been practically the same, in round numbers 10,500,000 bags, so that 17,500,000 bags represents the average annual consumption of this product in these two importing sections.

The Brazilian crop for the season of 1907-8 is reported as slightly in excess of 10,000,000 bags, against nearly 20,000,000 in the preceding year, the influence of this smaller crop being shown by the decline in the visible supply in contrast to the reported increase of 6,500,000 bags in the season of 1906-7.

The total quantity of rubber shipped from the Amazonas region in 1908, including the Bolivian and Peruvian districts, was 38,160 tons, of which 20,630 tons were sent to Europe and 17,530 to the United States. The world's production for the year was 65,000 tons, against 69,000 tons in 1907, consumption being estimated at 67,500 tons.

Rubber values suffered somewhat from the financial depression of the year, the first three months of 1908 showing a difference in the valuation of shipments amounting to \$9,500,000. The exports of the 1907-8 crop shipped from the ports of Iquitos, Manaos, and Para aggregated about 37,500 tons, of which approximately 16,852 tons went to Liverpool, 14,658 to New York, 3,376 to Havre, 1,519 to Hamburg, the remainder to Antwerp and Bremen. While these figures showed a slight increase in quantity over the previous year, market conditions showed a decline in values.

In cacao the country took first rank as a producer, the output for 1908 being nearly 70,000,000 pounds, as compared with 54,000,000 in 1907; the estimated crop for 1909 is 72,000,000 pounds. This industry in Brazil at the present time is little more than the gathering of cacao beans from semiwild trees, there being little or no cultivation in most places and not even regular employment of workmen in some. Of the 613,316 bags of cacao received at New York in 1908, Bahia supplied 107,447 bags and Para 12,113, Brazil as a whole supplying substantially 20 per cent of the total receipts.

Shipments of Brazil nuts amounted to 480,602 bushels, valued at \$1,121,278, in 1908, as compared with 512,237 bushels, worth \$1,219,778, in the preceding year. Of this output, the United States received 255,310 bushels, England 195,332, and continental Europe the remainder. The principal ports of distribution of this product are Manaos, Itacoatiara, and Para, the last-named being the most important port of shipment, and the whole trade being confined practically to the Amazon district.

The exports of hides, the chief item in the trade of Rio Grande do Sul, were about  $2\frac{1}{2}$  per cent larger than the year before, and other animal products were exported in proportion. Shipments of salted hides to Europe for 1908 numbered 470,719, as compared with 500,543 the previous year; of dry hides, Europe received 235,465 in 1907 and 275,674 in 1908, while imports into the United States amounted only to 10,000 in 1907 and 20,100 in 1908. About half of the total increase in the shipments of hides of 1908 over 1907 went to the United States, the increased shipments being of dried hides only.

Of special note on the import list of the country are wheat and flour, both of which are supplied largely by the Argentine Republic. The Government of Brazil has encouraged the erection of flour mills, and Argentine wheat is imported in ever-increasing quantities for local milling.

Imports of jerked beef show a marked decline through the imposition of duties designed to protect that industry in Rio Grande do Sul.

#### PRODUCTION AND INDUSTRIES.

Agriculture still holds first place among the industries of the country. Coffee, the principal crop, is grown in the southern States of Minas Geraes and São Paulo, which furnish more than four-fifths of the world's production. Other crops include cacao, sugar cane, tobacco, hay, cereals, beans, roots, and tubers of all kinds, cotton of the best quality, maté, tea, fruits, and vegetables. Rice culture is now reaching an extraordinary stage of development, the importation of this article, which a few years ago amounted to more than 2,000,000 bags, having now stopped almost entirely. Market vegetables and fruits of unsurpassed flavor in great abundance may be counted among the exports of the future. Cabinet and dyewoods abound in the Amazon forests, while large areas of rubber trees furnish a product that is shipped in enormous quantities to all parts of the world.

Since 1902 no coffee trees have been planted in São Paulo, and as it takes from four to six years for coffee to bear, the only elements of production are the trees in existence, almost all of which are in bearing at present. The last trees planted will be at their best and full bearing in the course of the current quadrennium, while the influence of replanting exhausted areas, as well as of the intensive cultivation lately followed, will also reach its climax during this period. Under such circumstances it seems reasonable to suppose that the average production during the years 1909-1912 will be the same as for the previous quadrennium, plus 5 per cent increase from freshly bearing trees, or in all about 10,000,000 bags per annum.

Twenty years ago consumption was between 9,000,000 and 10,000,000 bags, ten years later it had risen to 13,000,000, and for 1908 it is estimated at 17,500,000 bags. At this rate, at the close of 1912 current consumption should reach 19,000,000, especially if the official propaganda should be as effective as is expected.

The visible supply of the world on June 30, 1908, was over 14,000,000 bags and the production of the ensuing year estimated as follows: Brazil, by ports—Santos, 8,250,000; Rio, 2,750,000; Victoria, 300,000; Bahia, 200,000; a total for the Republic of 11,500,000 bags. Other countries, Central America, 1,500,000; Colombia and Venezuela, 950,000; Haiti, 350,000; other West Indies, 50,000; East Indies and Java, 697,000; total of other countries than Brazil, 3,967,000; grand total, 15,197,000 bags.

Recognizing the preeminence of the rubber industry the Government has decided to inaugurate local industrial application of the raw material, and in support of this purpose a bill was introduced into the National Congress exempting from import duties for a term of three years all material and machinery required for the establishment of rubber factories.

Sugar growing is one of the oldest industries of the country. It is carried on in three distinct zones, of which the northern, with the State of Pernambuco as its center, is the most important. This State produces about half of the total yield and has 47 central sugar mills, with 1,500 plantations, and a total production of 156,000 tons. The total production for the season 1907-8 was 130,000 tons, while the estimated output for 1908-9 is placed at 210,000 tons. By a decree of March 27, 1908, the duty on sugar of all kinds originating in countries which do not pay any bounty on that article was increased by the Government from \$0.077 to \$0.154 per 2.2 pounds.

In connection with the advance of 113.6 per cent noted for Brazilian sugar exports for the year 1908 as compared with the preceding year, it is stated that a movement is in progress throughout the Republic to increase the price of cane sugar, whose production has suffered in competition with beet sugar.

The Brussels Sugar Convention has added the Republic to the list of countries considered as according bounties on production or exportation of sugar.

Tobacco production in Brazil is confined principally to Bahia, while the cigar-making industry includes Rio Grande do Sul, these two districts furnishing the best known of the local brands, others coming from Rio de Janeiro and São Paulo. The tobacco used in the better grade of cigars is largely imported, mainly from the Dutch colonies, Sumatra and Dutch Guiana, and the finer grades from Cuba, either directly or through the United States and Germany.



The possibilities of growing fine tobacco in Para and certain other portions of the Republic have been discussed by local agriculturists for years and at different times have attracted the attention of foreign interests. Of late some of the leading men of Para, including the present governor, have made special trips of investigation through the tobacco districts of Cuba with a view of comparing the best tobacco country of that island with sections of Para known to be suitable for the growing of the best tobacco leaf. The exports of leaf tobacco from Brazil form one of the chief items of the country's trade, of which Bahia furnishes 92½ per cent and Germany takes 96 per cent.

A legislative decree dated December 31, 1908, authorized the President to grant an annual bounty of 15 contos (\$4,500) to agricultural syndicates which shall engage in the cultivation of wheat in the Republic. This bounty is offered for a period of five years, and will be paid in quarterly installments. To enjoy the advantages of this law, the company must be organized under the laws of Brazil, and must cultivate an area of over 200 hectares under the direction of an expert of proved ability. A bounty of equal amount is offered for the erection of flour mills having a capacity of not less than 11,356 bushels of wheat. To five or more companies which shall jointly establish experiment stations and laboratories for the study of entomology and agricultural chemistry a bounty of 20 contos (\$6,000) is to be granted.

Agricultural machinery and implements, fertilizers, insect destroyers, etc., imported for the exclusive use of the companies, are exempted from the payment of customs duties. The Government will endeavor to obtain from railway and steamship lines a reduction on the freight rates for wheat.

The status of flour milling as a national industry is shown by the fact that in 1906 importation furnished 48.7 per cent of the total consumption and the local mills 51.3 per cent, while in the ensuing year the percentage of importation reached 49.6, with a resultant decline in national production to 50.4 per cent. Of the flour imports, the Argentine Republic furnishes nearly 75 per cent, and of wheat used in the mills nearly the entire amount. In competing for this trade the United States is at the disadvantage of being remote from the populous portions of the country, which are to the south, although a gain has been made and held in the northern sections. The prosperity of the Brazilian national mills grinding Argentine wheat continues, and to stimulate the trade in mandioca flour a state government is offering prizes of \$300, \$180, and \$120 for the best 5 tons or more of this article delivered in the European market within a specified time.

The production of rice in the Republic, which, more or less, has been taking the place of the large imports during the last half decade,

has been made possible by a protective tariff. The record of decreased imports is measured almost exactly by the record of the increased customs duties on the grain. While importations of rice in 1907 were about one-fifth of those six years ago, the importations of 1908 amounted to only one-ninth of the average for the six previous years.

In a general way, so far as distribution is concerned, this change represents the development of rice production in Brazil. Practically the whole of the recent revival of rice growing in the country has been in the States of Rio Janeiro, Minas Geraes, São Paulo, Santa Catharina, Parana, and Rio Grande do Sul, the imports of rice in the northern ports, except where they are affected by the very high price of the food to consumers, continuing at about the old figures.

There are two distinct lines of rice production in the country at the present time. One is that of the modern culture of the grain at two points in São Paulo and at one or two places in Rio de Janeiro and Minas, more or less under the direction of the expert from the United States; and the other is the old-time native system of production, which embraces practically all of the real rice production of the country. The methods of the former are simply those of the best type in the United States, in Louisiana and Texas.

The production of maté in Brazil during the last five years has increased progressively, the leading centers being Paranagua, Antonina, São Francisco, Porto Murтинho, and Porto Alegre. The principal consumers are, in order of importance, the Argentine Republic, Uruguay, and Chile, in South America, followed by Italy, France, Portugal, Germany, and Belgium, in Europe.

An earnest effort is being made by the Government to stimulate the production of silk, and the national budget contains provisions for bounties, not only to producers of cocoons, but to persons establishing silk factories under prescribed conditions. The irregular cultivation of the silkworm, which has continued in Brazil for many years, has given promise that under favorable conditions the industry in the country might be profitable. Several of the state governments, especially those of Minas Geraes and São Paulo, have given notable support to the movement. The Government pays 1 milreis (about 30 cents) per kilogram (2.2 pounds) to the producers of cocoons who present their claims therefor, also premiums of \$600, \$300, and \$150 for fields of not less than 2,000 trees of mulberry which best meet requirements. A premium of \$15,000 was also offered to the first silk weaving factories of certain grade using Brazilian silk exclusively in their manufacture.

Manufacturing establishments of all kinds in the Republic, with 123,391 employees, number 2,292, capitalized at \$162,000,000, with an annual production averaging \$190,000,000. The total number of tex-

STATE	AMAZONAS	MATTO GROSSO	PARA	GOYAZ	MINAS GERAES	MARANHAO	BAHIA	PIAUHY	SÃO PAULO	RIO GRANDE DO SUL																													
Population	732,439	532,683	443,903	288,536	241,951	177,561	164,643	116,523	112,307	91,333																													
STATE	PARANA	PERNAMBUCO	CEARA	PARAHYBA	SANTA CATARINA	RIO DE JANEIRO	ALAGOAS	RIO GRANDE DO NORTE	ESPIRITO SANTO	SERGIPE																													
AREA Square Miles	85,451	49,573	40,247	28,854	28,632	26,634	22,583	22,195	17,312	15,033																													
LOCATION OF STATE.																																							
LOCATION OF STATE.																																							
LOCATION OF FEDERAL DISTRICT																																							
AREA Square Miles	538																																						
POPULATION.																																							
1 MINAS GERAES	4,000,000	12 PARAHYBA	500,000	2 SÃO PAULO	3,000,000	13 PARANA	400,000	3 BAHIA	2,500,000	14 SERGIPE	356,000	4 PERNAMBUCO	1,800,000	15 RIO GRANDE	331,000	16 AMAZONAS	349,000	5 RIO GRANDE DO SUL	1,200,000	17 PIAUHY	334,000	6 RIO DE JANEIRO	1,000,000	18 SANTA CATARINA	320,000	19 GOYAZ	300,000	20 ESPIRITO SANTO	250,000	7 CEARA	900,000	21 MATTO GROSSO	160,000	8 FEDERAL DISTRICT	890,646	TOTAL	189,026,646	9 ALAGOAS	700,000
9 ALAGOAS	560,000	10 MARANHAO	540,000	11 PIAUHY	540,000	12 PARAHYBA	500,000	13 PARANA	400,000	14 SERGIPE	356,000	15 RIO GRANDE	331,000	16 AMAZONAS	349,000	17 PIAUHY	334,000	18 SANTA CATARINA	320,000	19 GOYAZ	300,000	20 ESPIRITO SANTO	250,000	21 MATTO GROSSO	160,000	TOTAL	189,026,646												

AREA AND POPULATION OF THE UNITED STATES OF BRAZIL.

tile mills is 137, capitalized for \$60,000,000 and employing 41,108 operatives, the manufacture of cotton goods representing one-third of the total capital invested in mechanical industries. The proportion of these enterprises to the whole industry of the country is comparatively small.

Noteworthy development is, however, in progress, many factories for the production of articles formerly imported having been established in consequence of the wider application of electricity to manufacturing. A large number of miscellaneous establishments, such as furniture factories, manufactories of candles, soap, beer, chocolate, paints, shoes, hats, and clothing are in successful operation. The list includes saw and planing mills and a similar class of concerns not ordinarily counted as industrial establishments, embracing millinery shops, printing offices, artificial flower factories, and the like. São Paulo and Rio Grande contain meat and fruit packing establishments, Rio Janeiro and São Paulo flour mills, while a number of the states contain plants for the elaboration of sugar.

An industry of national importance is that of cotton manufacturing. The native fiber is of fine quality and grows in many sections. The consumption of raw cotton by the Brazilian mills reaches 143,000 bales per annum, while the total consumption in the Republic is about 285,000 bales. The entire business of cotton manufacture rests upon the exceedingly high tariff rates on cotton imports. Textile manufacturers in Brazil are subject to a so-called "consumption tax" collected by affixing a revenue stamp to each bundle of cloth as it is manufactured and prepared for market. The city of Rio Janeiro alone during the year 1908 yielded over \$500,000 from this source collected upon a total output from the mills of the Federal District of 91,802,037 yards. Cotton factories in the Republic, as a rule, have all of the machinery on the ground floor, combining spinning, weaving, and dyeing in one building, the spindles keeping the looms busy and the latter the dyehouse. The raw product is stored at one end of the building and the finished product delivered and warehoused at the other. Not only is immense advance shown in the textile industries along established lines, such as the weaving of cottons and silks, but the valuable perini fiber, or linen plant, is gradually being placed on a commercial footing.

In accordance with the regulations prescribed by the Brazilian budget for 1909, the Executive is authorized to grant exemption from duty on many classes of machinery and articles to be used in the establishment of new industries and the upbuilding of those already in operation.

The national and state governments are also devoting more attention to the pastoral pursuits of the country, particularly to the intro-

duction of live stock into the Republic and to the improvement of the native breeds. Several of the state governments have experiment stations for breeding purposes, notably in Minas Geraes, much of the stock being received from the United States. A registration system for imported and improved stock has been established, and not only are such cattle admitted free of duty, but the expenses incident to their introduction are defrayed. In the State of Matto Grosso the number of cattle is estimated at not less than 3,000,000 head, and in the State of Goyaz at a slightly lower figure. In both of these States cattle grazing is carried on upon an extensive scale, many of the ranches being hundreds of miles in extent, with herds of cattle numbering from 120,000 to 200,000 head. The States of Rio Grande do Sul, Santa Catharina, São Paulo, Matto Grosso, Goyaz, Minas Geraes, and Bahia have the advantage in natural resources for the proper development of the pastoral industries.

An enterprise in the State of Piauhý capitalized at \$6,000,000 has for its object the extensive breeding of cattle and the crossing of the foreign with the domestic stock. It is also proposed to acquire 100 kilometers of fallow lands for pasture and to engage in rubber planting as well as the preparation of jerked beef and the export of fresh meat.

Sheep raising has proven profitable in the States of Rio Grande do Sul, Parana, Santa Catharina, São Paulo, and elsewhere in the southern half of the Republic. The plains of Goyaz and Matto Grosso offer splendid opportunities for the development of the wool-growing industry, and with the protection afforded by the Brazilian tariff for the manufacture of woolen goods this industry should be greatly developed.

Pork packing is gradually being placed upon a practical and modern basis in the States of Rio Grande do Sul and São Paulo, and as a natural sequence more hogs are being grown each year. The State of Minas Geraes affords unusually good advantages in this particular, and there is on foot at the present time a movement for the establishment of a large packing plant in the capital of that State.

Until recent years Brazil, with its vast plains suitable for the grazing of cattle where they might graze the year round with but little attention from their owners, has been a large importer of dairy products, and particularly butter and cheese. This is still true of the northern parts of the Republic, but in the States of Minas Geraes, São Paulo, and Rio de Janeiro well established dairies have been in successful operation for years with a constantly increasing output. The first mentioned State leads in production, particularly of cheese, which has long been its important product, while the State of Rio Janeiro is now furnishing the cities within its own boundaries and

those of the neighboring State of São Paulo an almost equal amount of milk and butter.

A government zootechnical and agronomical institute, dedicated to the study of stock raising and agricultural experiments, is to be established at Rio de Janeiro.

#### MINE AND MINERALS.

The State of Bahia, the richest of the Brazilian States in mineral deposits, is desirous of stimulating the promotion of this important branch of national industry. In the promulgation of mining regulations the state government makes liberal provisions for the rights of landowners, but at the same time provides the necessary impetus for the exploitation of the mineral resources of the property either by the holders or possible lessees.

Old Portuguese records fixed the annual gold product of the country at over \$5,000,000 annually, a large proportion of which was obtained from Bahia, while the 1,700 tons of monazite sand and the 16,000 tons of manganese ore shipped from the State in 1907 demonstrate its possibilities along these lines.

The official value of diamonds and carbons exported from Bahia in 1907 was given as equivalent to \$50,000, but it is more than probable that this amount represented but a very small portion of the total value of these articles mined and exported.

Brazil also furnishes the greater part of the world's supply of monazite. The deposits lie along the coast of the States of Bahia and Espirito Santo in the sand banks and dunes on the beaches. Gravel deposits along certain of the rivers in the interior are being worked for monazite. The latest statistics in regard to exports of this product report shipments in 1907 of 4,437 tons, as compared with 4,352 tons in 1906.

The coal formations of the country, the existence of which has been known for over half a century, have been thoroughly studied by geologists of repute from the United States, and it has been proved that a carboniferous vein extends from the south of the State of São Paulo to Rio Grande do Sul. The beds dip to the south and the coal seams increase in thickness in that direction. Tried on the railroads, Brazilian coal has proved to be of good quality, an analysis made in the United States giving the following results: Moisture, 2.62; volatile matter, 29.54; ash, 29.22; sulphur, 11.08; phosphorus, 0.012; fixed carbon, 38.62. The analysis made in 1906 in the Escola de Minas gave, hygrometric moisture, 7.7; volatile matter, 32; ash, 8.5; equivalent carbon, 51.8; and calorific power, 5,400 calories.

A very rich deposit of surface gold was recently discovered at a point called Olho de Agua, 8 kilometers from the city of Montes Claros, in the northern part of the State of Minas, Brazil, and pros-

pectors to the number of 3,000 are in the field. Gold to the value of about \$150,000 has been secured in flakes varying from 100 to 720 grams each. One of the latter, owing to its unusual weight, was exhibited in the National Exposition in Rio Janeiro. Discoveries were also reported of bismuth in Campo Alegre and diamonds in Abbadia dos Dourados. A clear white stone weighing  $4\frac{1}{2}$  carats was found, as well as a ruby weighing one-half carat.

The most important placer is the basin of gold-bearing gravel below Guanay, reached by descending the Beni or Kaka River. This placer has been exploited to a considerable extent. The Incahuara basin, on the Beni River, and the gold-bearing gravel found on the banks of the Inambari River are also rich deposits, the gold being obtained from a black sand. Samples assayed ran over 80 ounces to the ton.

Work has commenced on the mercury mine recently discovered in the State of Minas Geraes. Brazil is one of the few countries possessing mines of this useful metal.

#### COMMUNICATION.

The total length of railways in operation in Brazil at the close of 1908 was 11,940 miles; there having been added during the year 633 miles, which exceeds the amount added in any previous year. Of the total increase in new mileage the federal government is credited with 487 miles and state governments with 146 miles.

The construction of the Madeira-Mamore Railway, the line which will connect the Mamore River with the Madeira River, passing around the falls which have heretofore made a direct commercial route from Bolivia to the Atlantic Ocean an impracticable matter, is being pushed with all the rapidity possible. Between 3,000 and 4,000 men are now working on a section 25 miles long, a large part being ready for the laying of the rails, of which about 12,000 tons have been received. This railway is being constructed by the Brazilian Government under the treaty of Petropolis, in which Bolivia ceded, for a consideration, all its rights in the Acre territory to Brazil, and the latter, among other considerations, agreed to build the railway, of which about 56 miles have been constructed, and the extension of which can be rapidly pushed. The first section which it is planned to deliver runs from Porto San Antonio, on the Madeira River, to Jacy Paran farther up the river. A presidential decree has been issued authorizing a contract of lease for sixty years from January 1, 1912, with the Madeira-Mamore Railway Company, the American construction concessionaire.

An executive decree of February 4, 1909, authorized the Brazilian Minister of the Treasury to issue bonds to the value of \$6,000,000 to meet the payments due the current fiscal year to the companies under

contract to build the Madeira and Mamore Railway, the extension of the Sobral Railway, and other lines connecting the States. The bonds are of the face value of 1,000 milreis each and bear 5 per cent interest.

The railroad lines of Brazil are rapidly being extended as the importance of this branch of national life is thoroughly appreciated as a factor in the general progress of the Republic.

#### STEAMSHIPS AND WATERWAYS.

The favorable geographical position of Brazil, in the center of South America, places it within easy reach not only of the other countries of South and those of Central America, but also of the United States, of Europe, and even of Africa, it being but a few days by one of the fast liners from the African to the Brazilian coast. With a coast line on the Atlantic Ocean of more than 5,000 miles, Brazil possesses a number of excellent bays and harbors, among which the port of Rio de Janeiro, world renowned for its scenic beauty, is the largest. The other ports on the Atlantic are Santos, Para or Belem, Bahia or São Salvador, Pernambuco or Recife, Rio Grande do Sul, Paranagua, Porto Alegre, Victoria, Maceio, Fortaleza, Maranhão or Maranhão, Parahyba, Antonina, Desterro or Florianopolis, São Francisco, Pelotas, Natal, Aracaju, Parnahyba, Estancia, Aracaty, Itajahy, Penedo, Mossoro or Santa Luzia, São Jorge dos Ilheos, Macau, Laguna, Barra do São Joao, Itapemirim, Cabo Frio, Santa Cruz, Camocim, Santa Victoria do Palmar, Macahe, Iguape, Angra dos Reis, Caravellas, Cannavieras, Alcobaca, Ubatuba, Paraty, São Matheus, and São Christovao. Among the river ports the most important are Manaos, on the Amazon River, 1,000 miles inland; Corumba, on the Paraguay; Uruayana, on the Uruguay; and Cuyaba, on the Cuyaba.

Four steamship companies ply regularly between New York and Brazilian ports, viz, the Lamport and Holt Steamship Company, which has placed five new steamers on the service; the Lloyd Brasileiro; the Atlas service of the Hamburg-American Line; and the Prince Line. The first named makes the run in twenty-three days, and the other three in from twenty-six to twenty-eight days. First-class passage on the Lamport and Holt Line is from \$190 to \$220, while the Lloyd Brasileiro and Prince Line charge \$135 and the Hamburg-American Line \$60. In addition to these four, the Booth Steamship Company plies between New York and the ports of Para, Maranhão, Ceara, Parahyba, and Manaos, the cost to Para for first-class passage being \$60.

Some of the fastest and most elegantly equipped steamers ply between Rio de Janeiro and European ports, making the run from



Southampton to Rio de Janeiro in from fourteen to sixteen days. Through connection can be made with the Royal Mail Steamship Company, leaving New York every alternate Saturday for Southampton, whence one of this company's direct steamers to Rio de Janeiro can be taken, the entire trip being made at a cost of from \$250 to \$300, and the time employed being twenty-four days.

Brazil has been favored by nature with a most wonderful system of fluvial arteries. It has within its territory not only the largest river basin, both in area and in length, in the world, but has also perhaps more navigable rivers than any other country. The mighty Amazon is navigable almost in its entire length, as are most of its affluents, while in the southern part of Brazil the Paraguay, Uruguay, and Parana rivers are all navigable.

Brazil thus has over 10,000 miles of navigable waterways open to river steamers and ocean-going vessels, and 20,000 miles additional navigable for light-draft vessels and flat-bottom boats only.

Several steamship companies maintain a regular service between points on these rivers, viz, the Amazon Steam Navigation Company, plying on the rivers Amazon, Rio Negro, Purus, Madeira, Tapajoz, Para, and Jurua; the Para and Amazon Steamship Company runs steamers on all of these rivers, as well as on the Yavary River. The Maranhão Company operates a line of steamers between Para and Obidos, on the Amazon River, and the Marajo Company on the Araguay River from the city of Belem to inland points. The "Navigation Company of the Guama and Tocantins Rivers" and the *Empresa Viacão* navigate these rivers and the River São Francisco, while the *Compãnia Paraense* maintains a service both on the Amazon River and on the coast. The Lloyd Brasileiro has also steamers plying at regular intervals on the coast. Other companies engaged in the coastal service are the *Compañia Nacional Navegação Costeira*, the *Empresa Esperança Maritima*, the *Companhia Bahiana*, *Companhia Pernambuco de Navegação*, and the *Companhia Maranhão de Costeria*.

The most important of the Brazilian lakes are the Lagoa dos Patos and the Lagoa Merim. These two lakes form part of the boundary line with Uruguay, and together make a considerable body of navigable water.

The Brazilian Congress, at the session which closed December 31, 1908, renewed the contract of the Government with the Lloyd Brasileiro, the company which has enjoyed a subsidy arrangement with Brazil for the past three years. The renewal is to run for six years. In connection with it the Brazilian company agrees to revise and lower its coasting freight rates and to extend its service in a number of lines. At present the company offers the sole means of communication between many parts of Brazil. A better service between Rio

Janeiro and New York has been established through the addition of two new ships to the fleet. They are well-equipped vessels, giving high-class service, and capable of a speed of 14 knots. Under the Brazilian law they will continue to call at ports along the coast, greatly improving the service between these points and New York. The contract between the Government and the steamship company practically vests the ownership of these vessels in the Government. Already the company, in connection with the Government, has two attractive and good-sized ships in the service between Rio de Janeiro and Manaus on the Amazon, a trip almost as long as that from Rio de Janeiro to New York. The vessels for the Rio de Janeiro-New York service are the largest and most modern of the company's fleet, and may be taken as an exemplification of the steady development in the tonnage and speed of the vessels engaged in the South American trade which has been going on for the past two and one-half years. Both the British and Italian companies in the South American trade are increasing their fleets with larger and speedier vessels, while the tonnage and average speed of vessels plying between Europe and Brazil for the second half of 1908 showed an increase of fully 20 per cent in the former and 12 per cent in the latter over the record for the first half of the year, which in itself is beyond all previous records. In 1908 English steamships transported the largest tonnage and the greatest number of passengers in the commerce of Brazil, German, Italian, and French steamers following in the order mentioned.

A rapid passenger and freight steamship service is to be inaugurated between Montevideo and Corumba, State of Matto Grosso, the service to extend as far as Cuyaba, the capital of that State. The distance in a direct water line from Rio de Janeiro to Cuyaba is about 870 miles.

Under the terms of the contract signed January 28, 1909, between the Minister of Public Works of Brazil and the Bahia Navigation Company, the latter company has inaugurated two new coast services, one to the north between Bahia and Belem, Para, and the other to the south between Bahia and Mucury. The company is also bound to establish within the year a monthly service between Bahia and Belmonte. The Federal Government will pay to the company an annual subsidy of \$90,000 in monthly installments.

A steam navigation service between the ports of Recife and Amarração, Recife and Bahia, and Recife and Fernando de Noronha has been contracted for. Various companies for inland navigation were also formed during the year, many of which were subsidized by the Government and successfully operated. The report of the Amazon Steam Navigation Company, covering a period of eighteen months ending June 30, 1908, showed that after adding to the reserve fund the sum of £20,000 the company had a surplus of £50,086, including

£4,158 brought forward from the preceding fiscal year. The company paid a dividend of 2 per cent.

By the annual budget law the President of the Republic is authorized to supply government aid in the construction of highways, the plan of communication outlined in the law referring particularly to a number of projects in different portions of the country, notably in Rio Grande do Sul and in the north of Minas Geraes. The subsidy amounts to about \$1,200 per mile.

The transfer of freight and passengers in several of the rural districts by automobile is under consideration. Electric transport systems are the rule in the larger cities.

A new suburban line, organized with Brazilian capital to connect Petropolis with the capital, and costing \$1,800,000, has secured a concession from the Government. The line must be completed within four years.

#### POSTS AND TELEGRAPH.

Many reforms are in contemplation with a view to increasing the efficiency of this branch of the Government. Brazilian post-offices number about 3,000, and the business of the post-office department for the year 1908 exceeded that of any other year, receipts showing an advance of \$261,019 over 1907, mail matter transmitted amounting to 567,817,151 pieces. The conventions concluded with England and Canada for the exchange of international money orders went into effect during the year, and the Government hopes shortly to conclude parcel agreements with France, England, Germany, Italy, and the United States.

At the beginning of the year the total length of the telegraph lines of the Republic was 43,153 miles of wire, with an extent of over 17,000 miles, there having been added during the year 1,315 miles. The number of telegrams transmitted during the year was 2,216,491, as against 1,929,705 in 1907, or an increase of 13 per cent. A reduction was made in the telegraph rates.

A concession to German interests for the laying of a new telegraph cable between Brazil, Europe, and South Africa was granted by the Government. The plans of the company as announced include the laying of a cable from Germany to Teneriffe, thence to Liberia and German West and Southwest Africa, and from Teneriffe to Brazil. The German Government is granting a subsidy which will guarantee the interest and amortization of the debentures issued by the company. Wireless stations have been established by both the Government and private companies at Para, Santarem, Manaos, Rio de Janeiro (2), Ilha Grande, Fort Santa Cruz, Ilha das Cobras, Ilha Mocangue, and Villegagnon, where government and public business is accepted. Ponta Negra, Ilha Raza, Guarabiba, and a number of other stations are to be completed and opened for business shortly.

The Brazilian Government has undertaken the gigantic task of connecting the Amazon territory, telegraphically, with the southern districts; but, owing to the nature of the ground to be traversed and the probable time required to complete the work, slow progress is



PALM AVENUE, PARA, BRAZIL.

This avenue is locally known as "Dezeseis de Novembro" (16th of November), named in honor of a national holiday.

being made, and wireless telegraphy has been suggested as the only system adapted to the situation, and one which could be rapidly installed at reasonable expense. The length of this line, as contemplated, will be about 1,200 miles.

## IMMIGRATION AND COLONIZATION.

Up to the present time Germany has predominated in contributing to the immigrant population of the Republic, although efforts are being made to introduce settlers from other countries. Bureaus of immigration and colonization have been established, offering every guaranty and facility to prospective settlers. In 1908, 94,695 immigrants arrived in the country, 45,000 of whom entered through the port of Rio de Janeiro. These figures show an increase of 40 per cent as compared with 1907.

The first lot of Japanese immigrants arriving in Brazil under the arrangement concluded between the Japanese and Brazilian governments was landed at Santos, for the State of São Paulo, on June 18, 1908. The transportation company having the matter in charge projects the formation of a South American association with a very wide field of enterprise, the purpose of which is the promotion of commercial, industrial, and social intercourse between Japan and the States of South America.

## PUBLIC WORKS.

The Brazilian budget for the present fiscal year authorizes the expenditure of large sums for educational purposes, for public works and improvements, including appropriations for the advancement of technical and professional education. At the beginning of the year 1908 there were 624,064 matriculated students enrolled at the various public and private institutions of learning in the Republic. The primary schools numbered 11,216, with an enrollment of 569,372; secondary schools numbered 328, with 30,897 pupils; professional schools, 116, with 17,966; schools of superior education, 25, with 5,829; normal and pedagogical schools, 44, with 5,021; industrial schools, 26, with 7,334; agricultural schools, 3, with 166; and 9 commercial schools, with 736 pupils. Among the professional and technical institutions of learning the enrollment was as follows: Law schools, 2,451; medical schools, 2,905; and polytechnic schools, 438.

The Government has authorized the expenditure of \$300,000 in irrigation works in the northern States of Brazil, while another project aims at opening up and improving river navigation, irrigating arid lands, reclamation of swamps, and preventing inundations through the regulation of water courses.

The first section of the great dock system of Rio de Janeiro is nearing completion. Over a mile of finished work has been accepted by the Government and 1,312 feet more have been completed. This section includes modern warehouses and all other needful appliances for the economical operation of the port. About \$57,000,000 have been

expended in the improvements, including the amounts spent on the Avenida Central, while on the dock proper the expenditure reached a total of \$44,660,000. It is the intention of the Government to lease the entire dock system, although formal bids will not be called for until legislation has been secured. The lease of the Santos dock has been a profitable venture for the grantee company, being regarded as the most lucrative enterprise of its kind in South America.

The port works of Santos and Bahia are being vigorously prosecuted, those of Para are begun, and arrangements have been made for inaugurating work at Rio Grande do Sul and Victoria. The Pernambuco port works have been contracted for to be begun in July, 1909, and other similar improvements are under survey.

In the general improvement plans will be included the construction of a great floating dry dock for the Rio harbor to accommodate war and merchant vessels, and especially the new war ships of the *Dreadnought* type now being built in England for the Brazilian Government. Bids for this dock were opened in April, 1909. Two steel floating docks built for the port works now under way at Para have been launched from the British yards having the construction in charge. They are to form part of an extensive ship-repairing depot, including machine fitters, platers, carpenters, smith's shops, and foundry, and are furnished with the latest type of machinery with which the works are to be equipped.

The budget for 1909 under the heading of "light-houses and the buoying of ports" carries an appropriation of \$15,900.

In connection with the Fourth Latin American Medical Congress, to be held in Rio de Janeiro in the summer of 1909, it has been arranged to hold an international exposition of sanitary appliances, medical foods and drugs models of sanitary establishments, and of all articles connected with medicine and hygiene. The date for this exposition has been fixed for the period from August 1 to September 30, 1909.

New waterworks were inaugurated at Rio de Janeiro during the year, thus doubling the water supply of the city which now receives 213,000 cubic meters daily. The length of pipes laid was 284,897.

The new supreme court building at Rio de Janeiro was finished and inaugurated in April. Other public buildings in course of construction at Rio are the new Fine Arts Building, the Electrical and Technical Institute, and the National Library. Other public works comprise a smokeless powder factory at Piquete, in the State of São Paulo; a wagon road connecting Villa União da Victoria and Palmas, in the State of Parana, and another road between Guaruva and Iguassu colony in the same State, of which 35 kilometers were completed during the year.

The Government has entered upon a plan of extensive public improvements in the Acre Territory, such as the construction of wagon roads, public buildings, professional schools, the establishment of colonial centers, etc.

Plans have been prepared for port improvement works at Itaqui, near the capital of the State of Maranhão, and at Camocim and Fortaleza. Dredging operations were carried on in the channel of the port of Natal, thereby greatly improving this port.





# CHILE

The Republic of Chile extends over more than thirty-eight degrees of latitude, from  $17^{\circ} 57'$  to  $55^{\circ} 59'$  south, stretching from the Samu River to Cape Horn, occupying a long, narrow strip of land between the Andean mountain range and the Pacific Ocean, with a coast line of nearly 3,000 miles and an average width of only 90 miles. The Republic has a total area of 291,500 square miles, with a population of 3,249,279.

By reason of its peculiar shape easy access is afforded to the entire territory, and the exploitation of its vast mineral and other resources is both easy and profitable. As a mineral-producing country Chile is best known for her vast nitrate fields, from which the excellent fertilizer known as nitrate of soda is procured. Copper, gold, silver, and iron are also found. In the central and southern divisions of the Republic, agriculture, viticulture, apiculture, and fisheries thrive, while extensive forests furnish various kinds of cabinet and other woods.

## HISTORICAL SKETCH.

FRANCISCO PIZARRO having conquered Peru, DIEGO DE ALMAGRO, one of his lieutenants, was dispatched with an army to the south to explore the country and take possession of it in the name of the King of Spain. He crossed the desert, which is now the great nitrate district, and after considerable difficulty managed to advance as far as the river Maule. There, however, he encountered the warlike Indian tribe of Araucanians and was obliged to retreat. Another expedition was sent by PIZARRO in the year 1540, commanded by his quartermaster, PEDRO DE VALDÍVIA, who was more successful than his predecessor, ALMAGRO, and although continually harassed by the Indians, was able to advance as far south as the present site of Santiago. Here he founded the city which is to-day the capital of the Republic.

Although Spanish colonists in numbers came to Chile, but little progress was made, owing to the continual attacks to which the settlements were subjected from the indomitable Araucanians. These attacks continued until the year 1640 when the Spanish governor concluded a treaty with the Indians. By this treaty the river Bio-Bio was recognized as the boundary line between the whites and the Indians, and the aid of the latter was enlisted in defending the country against the invasions of the English and Dutch buccaneers.

When, in the early part of the nineteenth century, the spirit of independence aroused the South American Continent, Chile in re-

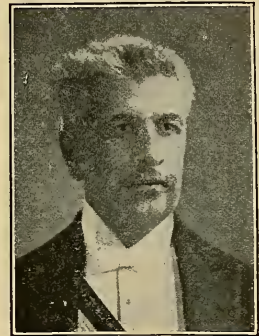


sponse, on September 18, 1810, deposed the Spanish authorities and created a provisional government.

Spain, however, was not willing thus easily to be deprived of its South American colonies and poured troops into Chile from Peru, the royalist stronghold. Finally, through the aid of the Argentine patriot and soldier, General SAN MARTÍN, the Spaniards were defeated at the battle of Maipú on April 5, 1818, thus practically ending the Spanish power in Chile.

General O'HIGGINS, who had distinguished himself in the war for independence, was appointed supreme dictator of the Chilean nation, and on October 23, 1818, a constitution which had been drafted by a committee appointed by O'HIGGINS was formally adopted by the people.

Among the great men who contributed to the final molding of the Republic in its present shape one of the greatest is Don DIEGO PORTALES, who was Minister of State under President PRIETO (1831-1841). PORTALES set the national finances in order and was largely responsible for the present constitution. The present incumbent of the presidency, Señor Don PEDRO MONTT, was inaugurated on September 18, 1906, for a term expiring in 1911.



SR. DON PEDRO MONTT, PRESIDENT OF CHILE.

#### CONSTITUTION AND GOVERNMENT.

The present Constitution of the Republic of Chile was formally adopted on May 25, 1833. Under it Chile has a single, republican form of government, with the customary division into legislative, executive, and judicial branches.

The President, whose term of office is five years, is chosen by electors, who, in their turn, are elected by direct vote. The President can not serve for two consecutive terms, and he may not leave the country during his term of office or for one year after the expiration of the same, except with the consent of the Congress.

He is assisted by a Council of State, consisting of 11 members, 6 of whom are appointed by Congress and 5 by the President, and who are directly responsible to the Congress. He is further assisted by a Cabinet of 6 ministers or secretaries, who, although appointed by the President, are likewise responsible to Congress, and may at any time be forced to resign, if Congress passes a vote of lack of confidence.

The legislative power is vested in the national Congress, consisting of a Senate and Chamber of Deputies, the former composed of 32 and the latter of 94 members. Senators are elected by direct accumulative

vote, in the proportion of one for every three deputies, for a term of six years, but the Senate is partially renewed every three years. Deputies are elected by direct vote, one for every 30,000 inhabitants or fraction thereof not less than 15,000, for a period of three years.

During the recess of Congress a standing committee consisting of 14 members, of which 7 are Senators and 7 Deputies, acts for the Congress and is consulted by the President upon all matters of importance.

The judiciary of the country consists of a national Supreme Court of 7 members, convening at the city of Santiago, 6 courts of appeals located at Santiago, Valparaiso, Tacna, Serena, Talca, and Concepcion, consisting of 5 members each, with the exception of those at Concepcion and Santiago, which have 8 and 12 members, respectively. There are also a number of minor courts located in the different provinces and districts.

The Republic of Chile is divided into 23 provinces and 1 national territory, which are again divided into departments, districts, and municipalities. The provinces are governed by an intendente appointed by the President of the Republic, while the departments are governed by a governor and the districts by inspectors. The popular element is represented by municipal councils elected by direct vote in each municipality.

Following are the provinces of Chile with their respective capitals:

Province.	Capital.	Province.	Capital.
Antofagasta.....	Antofagasta.	Malleco .....	Angol.
Aconcagua.....	San Felipe.	Molle .....	Canquenes.
Atacama.....	Copiapo.	Nuble .....	Chillan.
Arauco.....	Lebu.	O'Higgins .....	Rancagua.
Bio-Bio.....	Los Angeles.	Santiago .....	Santiago (also capital of the Republic).
Cautin .....	Temuco.	Tacna .....	Tacna.
Chiloe .....	Ancud.	Talca .....	Talca.
Colchagua .....	San Fernando.	Tarapaca .....	Iquique.
Concepcion .....	Concepcion.	Valdivia .....	Valdivia.
Coquimbo.....	La Serena.	Valparaiso .....	Valparaiso.
Curico .....	Curico.	Magallanes (Territory) .....	Punta Arenas.
Linares.....	Linares.		
Llanquihue.....	Puerto Montt.		

President.....Señor DON PEDRO MONTT.  
 Minister of the Interior and Chairman of the Cabinet.....Señor ENRIQUE RODRIGUEZ.  
 Minister of Foreign Affairs.....Señor AGUSTÍN EDWARDS.  
 Minister of Justice and Public Instruction.....Señor DOMINGO AMUNÁTEGUI SOLER.  
 Minister of War and Marine.....Señor ROBERTO HUNEEUS.  
 Minister of the Treasury.....Señor JOAQUÍN FIGUEROA.  
 Minister of Industry and Public Works.....Señor PEDRO GARCÍA DE LA HUERTA.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The President is allowed a salary of \$6,750 per annum and an allotment of \$3,500 for expenses.

## CHILE IN 1908.

No better evidence characteristic of Chilean energy can be offered than the activity prevailing in the construction of communication facilities during the year 1908. The award of the contract for the completion of the Arica-La Paz Railway, the construction of the Chilean section of the Trans-Andine line to the mouth of the Cumbres tunnel, and the anticipated junction with the Argentine section in the near future, with its possible inauguration in 1910, as well as the activity prevailing in lesser construction work in the Republic, all foreshadow the national purpose to meet the increased opportunities to be offered the western coast of South America through the completion of the Panama Canal. Commercial transactions show a gain of more than \$4,000,000 in 1908 over those of the preceding year, for although importations declined, mineral and vegetable production notably advanced, with corresponding increased exportation. The harvest yield in the wheat-producing sections for 1909 is estimated at from 20 to 25 per cent increase over the preceding year. The crops of the country are being improved both in quantity and quality by the general application of modern methods of culture and irrigation, while greater interest than ever before is being manifested in the development of industrial life, and the manufacture of articles hitherto imported will be a development of the future.

Progress is being made on the port works of Valdivia, Corral, and Valparaiso. The government projects adopted for colonizing the unsettled sections of the Republic are giving satisfactory results.

The nitrate association, a continuation of the combination of producers entered into in 1900 and renewed in 1906, was dissolved on March 31, 1909, and its renewal for a further period was adversely decided upon.

## FOREIGN AFFAIRS.

At the opening of the Chilean Congress on June 1, 1909, President MONTT addressed the National Assembly felicitating the Republic on the conditions prevailing throughout the country, stating that the efforts of the Government would be directed toward the maintenance of peaceful relations with other nations.

Pending questions with Peru are tending toward a final adjustment, various conventions having been signed in Lima for the reciprocal benefit of the two countries, while the construction of the Arica-La Paz Railroad, in consequence of an arrangement with the Bolivian Government, is progressing as a national enterprise. With Ecuador the long-standing friendly relations are maintained, and since the settlement of the boundary question with the Argentine Republic the

common interests of both countries are being advanced in a spirit of concord and fraternity. A commercial treaty for the furtherance of these ends is under consideration between the two Republics.

The traditional friendship with Brazil continues unbroken, while intercourse with the other nations of Latin America is proceeding along lines of mutual esteem and fellowship.

With the United States an arbitration treaty has been signed, and relations with that country are maintained on a most cordial basis.

Possibly the most prominent event in the history of the year was the assembling of the Pan-American Scientific Congress at Santiago in December. The cordial welcome tendered the delegates from the countries of South America and the Republic of the North was an indication of the international spirit of comity which will control the relations of the Republic. This spirit is further manifested in the appointment by the Chilean Government of the Pan-American Committee to prepare for participation in the Fourth International Conference of American States, to be held at Buenos Aires in 1910.

#### FINANCE.

Notwithstanding adverse exchange conditions, the financial position of Chile continued satisfactory during 1908. This was largely due to the fact that duties and revenue are mostly collected on a fixed exchange value, so that the Government does not feel the brunt of the decline in exchange. The recent issue of \$15,000,000 of 5 per cent bonds, underwritten by Messrs. ROTHSCHILD, may be taken as a fair indication of the rapid readjustment of the financial status of the Republic.

The revenues of the Government for 1908 were \$51,108,000 and the ordinary expenditures amounted to \$48,825,000, a margin of receipts over expenditures of \$2,283,000 being shown. The duty on nitrate is the largest single item in the list of revenues.

Extraordinary expenditures comprised in the rebuilding of Valparaiso, railway construction, etc., were met by the loan for \$15,000,000, from which a balance of over \$8,000,000 was reported on hand at the close of the year.

Many notable changes have been made in the rates levied on imports by the Chilean Government. Sugar, boots and shoes, and various articles of textile manufacture are included in this tariff-rate reduction, which began to take effect progressively on July 1, 1908.

Duties collected on exports for the year are given at \$6,888,431.15 Chilean gold (18d.) and \$6,079,581.22 currency; import duties being reckoned as \$19,859 Chilean gold and \$5,895,404.41 currency.

The external debt on June 1, 1909, amounted to \$101,900,000 gold. The internal debt is represented by paper currency issued by the

Chilean Government, which, if redeemed at its face value, would mean \$48,077,308 United States gold in excess of the value of the redemption bonds held to cover a portion of the currency, and would increase the public debt by \$24,038,654. To redeem the paper currency of Chile there is now on deposit in European and American banks about \$25,000,000 United States gold. These deposits are drawing interest and will be available for the purpose specified on and after January 1, 1910. On August 13, 1908, a law was promulgated imposing an export duty of 40 per cent on silver bullion assaying 0.5 or less.

At the beginning of the year, the savings banks of Chile held deposits aggregating \$19,966,774.61, representing 174,791 accounts, while on June 30, 1908, the number of depositors had increased to 198,419, and the deposits to \$22,876,141.65, a gain during a period of six months of 23,628 depositors and \$2,909,367.04 in deposits.

#### COMMERCE.

The foreign commerce of Chile in 1908 amounted to \$214,040,832 gold, an increase of \$4,617,489 over 1907. Of this amount imports figured to the extent of \$97,551,421, a loss of \$9,642,456, and exports \$116,489,411, a gain of \$14,259,945. The figures for 1907 are: Total trade, \$209,423,343; imports, \$107,193,887; and exports, \$102,229,466.

The principal articles of import that decreased in 1908, as compared with 1907, were, in the order of their importance, textiles, mineral, vegetable, and animal products, arms, ammunition, and explosives, perfumes, pharmaceutical and chemical products. The decrease in textiles was \$4,591,533; in mineral products, \$4,263,341; in vegetable products, \$3,159,535; and in animal products, \$858,470. The principal articles of import that increased in 1908, as compared with 1907, were petroleum, fuel, machinery, paper, and paper products. Oil and fuel increased to the amount of \$2,039,780, and machinery, tools, and apparatus \$1,912,427.

The exports for 1908 comprised mineral products, \$99,082,573; vegetable products, \$8,936,729; animal products, \$6,091,551; sundry products, \$473,664; wines and liquors, \$71,762; and coin, \$53,764.

The only item of export which decreased in 1908, as compared with 1907, was coin, \$548,485. Mineral products increased to the extent of \$10,741,533, and vegetable products to the amount of \$4,077,690.

The largest class of exports was mineral products, the principal items of which were: Nitrates, 20,336,122 quintals valued at \$85,350,882; copper bullion and bars, 29,539,235 kilos, \$6,409,132; copper ore, 64,684,579 kilos, \$2,568,590; borate of lime, 31,740,650 kilos, \$1,621,947; iodine, 330,090 kilos, \$1,433,745; and 1,162,913 kilos of gold and silver ores valued at \$923,353.

The countries of origin of Chilean imports were, in the order of values, Great Britain, Germany, United States, France, Belgium, and the Argentine Republic, and of destination of exports Great Britain, Germany, United States, France, Holland, and Belgium.

Important as the progress of the last few decades has been, Chile is a country with a still greater commercial future. The United States is recognized as England's foremost competitor for Chilean trade, notwithstanding the fact that Germany last year exported to Chile about two and one-half times more than did the United States. American goods are well received, and with the more progressive methods adopted by American exporters the coming decade may see gains as marvelous as those of the past ten years, which showed an increase of American imports into Chile of more than 430 per cent. For 1908, however, United States statistics note receipts of Chilean merchandise to the value of \$12,494,122, and exports to that country valued at \$5,373,911, the decline in both branches of trade being very great.

#### PRODUCTION AND INDUSTRIES.

Mining, due to the extensive working of the great nitrate of soda deposits, takes first place among the industries of the republic. The association which for many years has controlled the output and export of Chilean nitrate, the ranking product of the country, decided to discontinue operations as a company from April 1, 1909. The year's production was slightly in excess of the 2,000,000 tons fixed as the exploitable quota, being 42,847,267 Spanish quintals of 101 pounds, while exports also exceeded the estimate, figuring for 2,250,000 tons. The Government has appointed a commission for the collection and distribution of information bearing upon this industry so important to the national life, and will carry on an active propaganda in its behalf at home and abroad.

The official board of engineers has reported to the Chilean Government that there are undeniably in sight 4,483,000,000 quintals of nitrate in the deposits of the country. Antofagasta is credited with 4,103,000,000 and Tarapacá with 740,000,000 quintals. With an annual exportation of 35,000,000 quintals, this shows sufficient to supply the entire world's consumption for one hundred and thirty years. A previous estimate had fixed the amount at 1,603,000,000 quintals. The nitrate fields of South America exported in 1830, the first year they were worked, 8,348 tons of crude mineral.

Borate production is placed at 28,000 tons annually, with a valuation of \$4,000,000, and so extensive are the deposits that Chile could easily supply the whole world.

Sulphur production does not meet the necessities of the home market, although large deposits are known to exist in the Provinces of

Tacna and Coquimbo. Extensive deposits of sodium chloride are under development, notably those of Tarapacá, where a bed with a depth of 20 meters extends over a large area.

Guano has been preserved to satisfy national consumption, and the deposits are being worked in accordance with agricultural requirements.

Sulphuric acid is produced in the Guayacan factory, the cataliptic system being employed, and the product being largely used for metallurgical purposes.

Coal mining, with a production of 900,000 tons, does not meet the country's requirement, and there is consequently a yearly importation of about 1,500,000 tons, mainly from Australia and England. A strong effort is being made to open up the very extensive coal fields of the Province of Arauco, south of Coronel. A much better grade of coal is found in the interior of that Province that has hitherto been mined in Chile for commercial purposes. It is said to be very good coking coal and suitable for use in the Chilean navy. The state railways of Chile consume annually from 350,000 to 400,000 tons of coal, of which about one-half is imported.

Gold mining is less actively carried on in late years than was formerly the case, although the exploitation of placer gold is increasing. These deposits have a great future, particularly in Cautin, Valdivia, and Magellan in the southern part of the Republic. Hydraulic and dredge systems have recently been installed, but as the work has been largely experimental the best results have not yet been attained. In 1907 the total output of gold was 1,500,000 grams, amounting in value to nearly \$1,000,000. Near Vallenar a gold deposit has lately been discovered assaying nearly 200 ounces of pure gold per ton. This is the old gold mining region of Chile.

Silver production, although it showed a slight advance in 1907, when the output amounted to 10,433 kilograms, does not receive the attention warranted by the known value of the deposits.

The mining energies of the country have been directed largely to copper, the production of which for 1908 was given as 35,000 tons of refined metal, as compared with 28,854 tons in 1907. The mean copper percentage of ores worked in Chile during 1907 was  $9\frac{1}{2}$ , a portion of which, with an average percentage of 20 per cent, is sent abroad as ore for treatment. The old mines of Teniente are being successfully worked and the development of workings in Collahuasi, Calama, and Chiquicamata, as well as the exploitation of certain lower-grade deposits, have occasioned a greater activity in copper mining. The greatest depth arrived at in the Republic is about 1,000 meters at the Dulcinea mine in Copiapo, but as a rule the operations are not carried on below 200 to 500 meters. Large copper mines and smelting establishments are located at Cerro Blanco, Carizal Alto, Jarilla, and As-

tilla and other smelting works have recently been established at Chañarcillo in the Department of Copiapo, giving considerable impulse to copper mining in that district. All of these districts have rail connection with the nearest ports, thus affording easy means of transportation and communication.

Petroleum and natural gas have been discovered in the township of Carelmapu, in the Province of Llanquihue, about 500 miles south of Valparaiso. This discovery was made in the vicinity of a fairly rich gold mining district and not very far from the site of the extensive steel works being built near Corral.

The production of nonmetallic substances, such as lime, cement, chalks, marble, clay, etc., is sufficient for national needs, and earthen-



ICEBERG IN MAGELLAN STRAIT.

The route traversed by the trans-Atlantic liners includes the Strait of Magellan proper, Smyth Channel, Victoria, Sarmiento, Los Inocentes, Concepcion channels, Canal Ancho, and Messier Channel, covering in all 365 miles in length, the width varying from 2 to 25 miles, and being one of the most picturesque maritime routes in the world.

ware factories are in operation at Lota, and cement factories are successfully operated at La Calera and El Melon.

In accordance with the law of July 16, 1908, the Chilean mining code establishes three classes of mines, viz, (1) gold, silver, copper, and similar mines, the acquisition of which is free; (2) coal mines and mines containing similar fossils; and (3) mines containing minerals situated on uncultivated state or municipal lands. Gold, silver, copper, and similar mines pay a tax of \$3.50 per hectare, and coal mines and mines containing similar substances which formerly paid a tax of \$1.75 per hectare now pay \$0.07 per hectare.

Stock farming, and agriculture generally, represent important branches of Chilean industry, and though primitive methods are



employed on the average haciendas, modern machinery is coming into very general use in most districts. The United States supplies the greater part of this, the light, ornately finished implements of that country being regarded as exactly suited to Chilean conditions, but when strong and heavy machines, such as mowers, are required, they are generally obtained from Great Britain. During 1907 farm and dairy machinery to the value of \$1,556,884 was imported, of which the United States furnished \$925,912. The lumber industry in the far south of Chile also merits special attention at this time, as it is in an active stage of development.

Recent estimates by reliable authorities place the number of farms in Chile at about 50,000 and an assessed valuation of \$365,000,000 United States gold.

The harvest for 1908 was, in general, quite satisfactory. The north central portion suffered, but farther south the crops were better than usual, owing to the lighter rainfall, for as a usual thing that portion of the country has too much rain to produce the best results.

The wheat yield of over 25,000,000 bushels was about the same as for last year, when there was a surplus of about 5,000,000 bushels, and the quality in the main was superior. The barley crop was a little short of average, 5,500,000, but will be sufficient to meet home demands, while the fruit crop was good and the yield more than sufficient to meet the demand. Wine production was greater than in 1907. The vineyards of the Republic yield more than enough to supply the home needs, and the wines of the country, if properly exploited, have a bright future abroad.

The cultivation of flax is being encouraged by the Government and will, it is anticipated, form a valuable source of wealth for the nation. Some tobacco of very good quality is also grown in the country, but it will be some years before the supply will be equal to the demand for this article.

The future looks promising for the development of agriculture, as the Government is doing much to open up heretofore undeveloped sections of the country by building railways, assisting irrigation enterprises, bettering wagon roads, and encouraging immigration. The soil of Chile is very fertile, but its yield could be increased from 200 to 300 per cent by the application of more modern methods and the use of up-to-date machinery.

The pastoral industry of the country, as a result of better transportation facilities, is being developed. The Territory of Magellan, the southernmost political division of the Republic, is an excellent field for stock raising. This extensive territory, comprising about one-fourth of the total area of Chile, contains approximately 48,000,000 acres of land and owes its present prosperity principally to sheep raising and the working of its placer mines. Some idea

of the fortunes obtained from the former industry may be had when it is remembered that persons engaging in this occupation ten or fifteen years ago with a capital of from \$6,000 to \$10,000 are now the owners of flocks ranging from 60,000 to 90,000 sheep.

It is estimated that there were 1,873,709 head of sheep, 37,804 head of horned cattle, 23,888 horses, and about 1,000 hogs, mules, and goats in the Territory of Magellan in 1907. The wool exported from Punta Arenas in 1906 amounted to 16,500,000 pounds, valued at \$3,009,371. Practically all of the wool and hides shipped from southern Chile in 1906 went to Great Britain, Germany, and Bel-



PENGUINS ON SANTA MARTA ISLAND.

Santa Marta, a small island in the Strait of Magellan, a short distance from Punta Arenas, is one of the islands on which is found the penguin, a bird peculiar to the southern extremity of the American Continent and in the Antarctic regions. Antarctic explorers have frequently subsisted on the flesh of these birds for months, when their supply of food had been exhausted.

gium, the former country receiving about four-fifths of the entire output of these two products.

The raising of horses is also a profitable industry in the Territory of Magellan. The native horse is descended from Andalusian stock and is hardy, docile, intelligent, and vigorous and, it is said, is capable of doing more work with less food and care than the European or American horse. During the last twenty years the native stock has been considerably improved by the introduction of stallions from England, Germany, and France.

More attention is now being given to manufacturing industries in Chile than ever before. During the year 1908 shops and factories to the number of 2,829 were in operation in the 16 leading prov-

inces, aside from that of Valparaiso. Invested capital amounted to \$46,114,424 gold, and employment was given to 51,353 persons, of whom 32,795 were men, 14,114 women, and 4,114 children. The value of raw material consumed by these plants during the year was \$34,464,766.50, of which \$25,682,864.50 was domestic and \$8,781,902 imported. The output of the factories was valued at \$62,500,000, leaving a surplus applicable to labor, other expenses, and profits of \$28,036,233.50.

The motive power employed represented an equivalent of 26,000 horsepower, of which 10,600 horsepower was hydraulic. Water power commands much attention in the country by reason of the high price of coal and other fuel. The import duty on most manufactured articles, with the exception of machinery, ranges from 30 to 60 per cent.

The manufacture of shoes by machinery is increasing rapidly in Chile. A short time ago the first shoe factory employing machinery was opened at Valdivia, and now there are 22 well-equipped factories of various sizes located in different cities of the country. A large percentage of the shoe machinery in use in Chile is from the United States. France comes next, followed by England.

Several industries closely allied with and depending upon stock raising are now being exploited in the Territory of Magellan. In 1906 there were seven tallow factories in the territory, having a capital of \$155,125 and an annual output valued at \$704,405. There are two refrigerating plants, one of which, in 1907, exported 120,000 frozen wethers. The plant at Punta Delgada is the only meat-canning establishment now in operation in the territory. The capital invested is \$225,000. There are also stearin, soap, and salted-meat factories in successful operation.

Salmon is being introduced into the rivers in the southern parts of the country with very good results, but this new industry will not show any results for some years, and at present large quantities are being brought in direct from California and sold at reasonable prices, the customs duties on this article being about half what it is on lobsters. The latter are packed at the island of Juan Fernandez and are sold at very high prices, owing to the prohibitive duties levied to protect this so-called native industry. Fresh fish, of which there is an abundance, is daily offered in the markets, and oysters are plentiful in the southern part of the country, where they are canned for shipment to the northern provinces.

#### RAILWAY AND STEAMSHIP LINES.

The railways of the Republic in actual operation, under construction, or in contemplation on January 1, 1908, represented a total of 3,646 miles, of which 1,590 were in actual operation, 612 under con-

struction, and 1,444 miles projected. During 1908, 648 miles of government railways were constructed, of which 482 miles were built under government supervision and 165 miles by contractors employed by the Government. The construction of these lines represented an outlay of \$9,837,189.

According to the latest information from the most authentic sources, the entire Trans-Andine Railway system is to be completed and open to through public traffic not later than March, 1911. With reference to other important lines the following developments are reported:

On February 1, 1909, bids for the construction of the section of the longitudinal railway between Cabildo and San Marcos, covering a distance of 127.38 miles, were opened in the capital of the Republic and in the legations of Chile in Europe and the United States. The only bid received in Chile was that of a London company, the amount being £1,900,000 and the time required for the construction three years.

Tenders for the construction of the remainder of the railway from Arica to La Paz, a distance of 350 miles, were opened in the Department of Industry and Public Works, at Santiago, on March 1, 1909, the award being made to a British firm.

Owing to its Pacific coast line of nearly 3,000 miles, every part of Chile can be easily reached by water, there being no less than 59 ports in the country, 14 of which are the so-called major ports, which are ports of entry with custom-houses, and upon which the minor ports are dependent. The major ports are Pisagua, Iquique, Tocopilla, Antofagasta, Taltal, Caldera, Carrizal Bajo, Coquimbo, Valparaiso, Talcahuano, Coronel, Valdivia, Puerto Montt, and Ancud.

Punta Arenas, in the Straits of Magellan, is a free port, where merchandise may be imported and exported free of duty.

There are a number of navigable rivers, among which the Bueno, the Maule, the Cautin, the Bio-bio, and the Valdivia are the most important, being navigable for distances varying from 23 to 150 miles, the total navigable length of the Chilean rivers being 972 miles.

Chile can be reached either directly from New York by one of the three steamship companies maintaining direct lines: via Buenos Aires and the Cordillera, via Panama and the west coast, or via San Francisco and the west coast.

The New York and Pacific Steamship Company, the West Coast Line, and the Barber Line run steamers between New York and Chilean ports, employing from 41 to 55 days to Valparaiso, but having limited accommodations for passengers.

By way of Panama the trip is made with the Panama Railroad Company's vessels, having regular weekly sailings from New York, thence across the Isthmus, and from Panama by one of the lines ply-

ing on the west coast, it being possible to make the trip by this route in 35 days, at a cost of \$204 for first-class passage.

The steamship lines plying regularly along the Pacific coast are: The Pacific Steam Navigation Company, calling at all the major



A MOUNTAIN SCENE ON THE TRANSANDINE RAILWAY.

The scenery along the line of the mountainous sections of this railroad is as fine as can be found anywhere in the world. The higher peaks of the snow-covered cordillera are constantly in view and an ever-changing panorama of mountain, valley, and gorge is presented to the traveler.

ports of Chile; the *Compañía Sud-Americana de Vapores*, calling at all the Chilean ports; the Kosmos Line, plying between San Francisco, California, and Hamburg, Germany, calling at all the more important ports of the west coast, and the *Compañía de Nave-*

*gación y Diques Secos Peruanos*, which has recently inaugurated a fast service between Panama and Valparaiso, Chile. By a decree of September 25, 1908, the Chilean Steamship Company was authorized to operate in the Republic. This company has a capital of \$625,000, with headquarters at Valparaiso.

Maritime transport increase is indicated by the addition of 35 vessels, with 17,740 tons burden, during the year, the total merchant marine now consisting of 172 ships and 98,722 registered tons.

During the year 1908 steamers to the number of 387 and 18 ships touched at Valparaiso, discharging 715,304 packages and loading 762,900. Packages to the number of 2,500 were reembarked and 1,874 sold to pay storage charges.

The Government has 28 bridges of different types under construction, at a total cost of \$1,017,510 United States gold, with 31 more under consideration at a cost of \$1,390,103 United States gold.

#### POSTS AND TELEGRAPHS.

The postal movement for 1907 covered 78,016,179 pieces of mail matter which, although less than the estimate made, is greater by nearly 1,000,000 pieces than the year preceding. Parcels post values were \$1,000,750. Of the 323 telegraph offices in the Republic, 10 were added during the year. The telegraph offices transmitted 2,035,291 messages for domestic and 83,547 for foreign service. During the year the line between Iquique and Zapiga was opened and a new communication between Olera and Santiago. Telegraph and telephone lines are respectively about 11,836 and 8,000 miles in extent.

The Government has erected wireless stations on the island of Juan Fernandez, over 400 miles from the coast, and at Valparaiso, which have been most satisfactorily operated. Plans for wireless connection with the Territory of Magellan were completed.

At the beginning of 1909 there were 15 industrial schools, giving instruction to about 3,300 pupils. Of these schools 8 were located in Santiago and the others in the various provinces. Much interest is being taken in these schools and their work is telling for good in the industrial development of the country. They are well equipped with up-to-date appliances, much of which is from the United States.

There are only three foreign life insurance companies doing business in Chile, two from the United States and one from Canada. In 1907 the United States companies did a business of \$293,433 and paid losses amounting to \$127,440, showing a profit of \$165,993.

#### PUBLIC WORKS.

The Government has under construction buildings valued at \$4,895,273 United States gold, all of which are scheduled for completion before the close of 1909.

In a special message to the Federal Congress the President of the Republic of Chile has recommended that \$800,000 be appropriated for the purpose of celebrating the centennial of Chilean independence in 1910. The committee appointed to draft a programme recommends that the exhibit of arts and crafts be held in the new Palace of Fine Arts; that the agricultural exhibit take place at the Quinta Nacional; and that the exhibit of industry, commerce, and education be held in a building to be constructed for the School of Mines in the Quinta Normal. The committee recommends the erection in Cousiño Park, Santiago, of the Centennial Building, in which the exhibition of the Historical Museum of the Republic will be held.

In honor of the occasion the opening of several new streets and avenues is recommended, as is also the erection of a statue to CAMILO HENRIQUEZ, the founder of Chilean journalism. In addition to the foregoing celebration and erection of buildings, to take place in the capital, the committee recommends construction of public buildings in various sections.





# COLOMBIA

The Republic of Colombia, occupying the northwestern corner of South America, extends from latitude  $2^{\circ} 40'$  south to  $12^{\circ} 25'$  north and from  $68^{\circ}$  to  $79^{\circ}$  west longitude, covering an area of 438,436 square miles, equal to that of the States of Louisiana, Texas, Kansas, and Arkansas, with a population of 4,000,000, equal to 9 inhabitants per square mile or less than one-half the population per square mile of the United States of America.

Three chains of mountains which cross the country occasion a variety of climate, ranging from temperate to tropical. Coffee, cacao, sugar cane, tobacco, and bananas are successfully grown and largely exported, and the extensive forests contain a number of valuable cabinet and other useful woods and medicinal plants. Vegetable ivory and india rubber are other products of export, also "Panama" hats, in the manufacture of which the natives have acquired considerable skill. The mineral wealth of the country has been but little exploited, although its emerald mines furnish the world's chief supply of these gems. Gold, silver, and other precious metals are also to be found in the Republic.

## HISTORICAL SKETCH.

When COLUMBUS, on his fourth and last voyage, had discovered Cape Gracias a Dios, on September 14, 1502, he sailed along the Colombian coast for a considerable distance, but did not make any attempt to settle the country or conquer the aborigines. It was left for ALONSO DE OJEDA, who in the year 1508 was granted the land lying east of the river Darien, which was termed the Province of Uraba, to attempt the conquest of the country. OJEDA succeeded in establishing himself firmly along the coast, battling continually with the Indians; but all of his attempts to conquer the Chibcha Kingdom, situated on the high plateau, were fruitless. In the year 1536 JIMENEZ DE QUESADA undertook the subjugation of the Chibchas and at the same time two other expeditions, for the same purpose, started from other points, that of FREDERMAN and of PIZARRO's first lieutenant, BENALCAZAR. These three expeditions met on the plateau, and it was due only to the tact and diplomacy of QUESADA that strife was avoided. Having succeeded in this, he established friendly relations with the aborigines, a highly civilized people, similar to the Incas of Peru. He established his capital, the present city of Bogota, on the site of the old Chibcha capital and explored the country in all directions.

A Governor-General was appointed by Spain and the name changed to the Province of New Granada, and in the year 1718 it



was made a viceroyalty. The first viceroy was ANTONIO DE LA PEDROSA Y GUERRERO, and New Granada was successively governed by twelve viceroys until in the year 1810, the last, Don ANTONIO AYNAR Y BORBON, was deposed by the citizens of Bogota. Revolutionary movements had previously been initiated in various parts of the country, but the war against Spain took definite form in July of that year.

A long and bitter struggle ensued which lasted for nearly nine years, ending in the year 1819, when, on August 7, the patriots under the able leadership of Gen. SIMON BOLIVAR utterly defeated the royal forces at Boyaca.

BOLIVAR succeeded in effecting a union between Venezuela and the former viceroyalty of New Granada, and on the 17th of December, 1819, the new Republic formally adopted the title of the Republic of Colombia. On July 12, 1821, a constituent congress met at Cucuta and elected SIMON BOLIVAR as the first President of the "Greater Colombia." The "Intendencia de Quito," now the Republic of Ecuador, joined the union in the year 1829, but when, on December 17, 1830, BOLIVAR died, the union was dissolved, and New Granada adopted the title of the Republic of New Granada on November 17, 1831. This title was subsequently changed to that of the Granadine Confederation, later to that of the United States of Colombia, and lastly to the Republic of Colombia. The change of name indicates the various phases of the development of the country, Colombia having finally resolved to adopt the unitary republican form of government, which experience has taught it to be the best fitted for the country.

Gen. RAFAEL REYES, the present President, was inaugurated August 7, 1904, for a term of ten years.



GENERAL RAFAEL REYES, PRESIDENT  
OF COLOMBIA.

#### CONSTITUTION AND GOVERNMENT.

By the constitution adopted August 4, 1886, the Republic of Colombia abolished the Federal Union and the sovereignty of the several States and adopted the unitary republican form of Government, with legislative, executive, and judicial branches.

The Senate and the House of Representatives, constituting the National Congress, are intrusted with the legislative power, the former chamber consisting of 27 members, 3 for each department, and the latter of a varying number of members, 1 for every 50,000 inhabitants. Senators are elected indirectly by electors chosen for the purpose for a term of four years, and Representatives are elected by direct vote of the people for the same term.

The President is elected for four years, by indirect vote, in the same manner as the Senators. The term of office of the present incumbent has been extended to ten years, at the expiration of which term, however, it is to be only four years, as heretofore.

The President of the Republic is assisted by six Ministers, or Secretaries of State, one of whom represents the President during his absence or disability, there being no Vice-President.

The Judiciary comprises one supreme court, located at Bogota, a superior tribunal for each Department, and a number of minor courts. The supreme court is composed of seven members, appointed by the President of the Republic for a term of five years, while the justices of the superior courts are appointed for a term of four years.

#### INTERIOR GOVERNMENT.

The Republic is divided for administrative purposes into nine Departments, which are again divided into provinces, and these into municipal districts. In the Departments executive authority is vested in a Governor, appointed by the President of the Republic, and legislative authority in a departmental assembly elected by popular vote at the rate of one deputy for every 12,000 inhabitants. The provincial and district executive authorities are likewise appointed by the President, but municipal councils are elected by direct vote of the people.

#### TERRITORIAL DIVISIONS.

Under a decree issued on the 27th of March, 1909, the political divisions of the Republic of Colombia are as follows:

Department of—	Capital.
Barranquilla .....	Barranquilla.
Bucaramanga .....	Bucaramanga.
Cartagena .....	Cartagena.
Facatativa .....	Facatativa.
Manizales .....	Manizales.
Medellin .....	Medellin.
Pasto .....	Pasto.
Popayan .....	Popayan.
Tunja .....	Tunja.

The capital of the Republic is Bogota.

President .....	General RAFAEL REYES.
Acting President .....	General JORGE HOLGUIN.
Minister of the Government .....	Señor ENRIQUE ARGAEZ, Assistant Secretary in Charge.
Minister of Foreign Affairs .....	Señor EUCLIDES DE ANGULO.
Minister of the Treasury .....	Señor FIDEL CANO.
Minister of War .....	Señor ROBERTO URDANETA, Assistant Secretary in Charge.
Minister of Public Instruction .....	Señor JOSÉ MARÍA GONZALES VALENCIA.
Minister of Public Works .....	Señor RAFAEL ORTIZ.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is \$18,000 per annum.

## COLOMBIA IN 1908.

Colombia is another country of Latin America which, like the Argentine Republic and Chile, showed increased trade returns for 1908, nearly \$3,000,000 excess of commerce being reported for the year over 1907. In national finances, as a consequence of a revised expenditure list, the Government was enabled to report a gold surplus at the close of the fiscal year amounting to over \$2,000,000, and indications of a betterment of financial conditions were found in lower rates for loans, the satisfactory letting of the contract for the exploitation of the famous Muzo emerald mines, and in renewed activity in railroad construction.

Rail connection between Bogota, the capital, and the headwaters of the Magdalena River was initiated in February, 1909, through the extension of the line from Girardot, at the head of navigation, as far as Factativa, at which point union is made with the Sabana road to Bogota, which has been in operation for many years.

Capital is being attracted to the Republic and invested in railway, mining, and other industrial developments. Public works are progressing, notably the construction of roads and railways.

## FOREIGN AFFAIRS.

President REYES, in his last message to the Colombian Congress, reported at length concerning the cordial relations existing between Colombia and her sister Republics.

The National Assembly during the year 1908 ratified an industrial property convention with Great Britain and treaties of amity and commerce with Switzerland and Japan. It also formally ratified the convention supplementing the boundary treaty with Ecuador. Other matters which engaged attention were the modification of the supplementary convention to the concordat made between the Minister of Foreign Affairs and the Apostolic Delegate concerning the fulfillment of article 25 of the concordat; the convention on pecuniary claims concluded at the Third International Conference of American States, held at Rio de Janeiro, Brazil, in 1906; the convention of Mexico on the same subject, signed at the Second International Conference of American States in the city of Mexico in 1902; the convention on exchange of official and other publications also signed at Mexico; the Sanitary Convention concluded at the Second Sanitary Congress of the American Republics in Washington October 14, 1905, signed by the delegates of Colombia at the Third Congress, held in Mexico in December, 1907; the convention establishing the status of naturalized citizens who again take up their residence in the country of their origin, concluded August 13, 1906, at the Third International Conference of American States, held in Rio de Janeiro. The con-

ventions of the last Postal Congress, held in Rome, were ratified by the Government and a division established in the Department of Posts to carry out its provisions relating to the exchange of foreign mail. Members of the Pan-American Committee and of the Permanent Court of Arbitration at The Hague were appointed.

#### FINANCE.

The credit of the Republic abroad continued stable throughout the year. Interest on the foreign debt was paid regularly and the Republic continued the discharge of her obligations to the bondholders. Up to March, 1908, 70 per cent had been paid.

The total issue of the floating internal debt of Colombia up to June 30, 1908, amounted to \$22,419,172.75, of which sum \$19,356,160.60 has been paid, leaving \$3,063,012.15 as the outstanding internal debt of the Republic on the date mentioned.

The promptness with which the Government has met the payment of interest due on its foreign loans has strengthened public confidence in the ability of the Republic to meet its obligations, and resulted in Colombian foreign debt securities being quoted at higher prices in the financial centers of the world.

At a session of the Council of Ministers held March 5, 1908, the Government resolved to introduce important economies in expenditures for the year, as a result of which the original appropriation was reduced from \$16,244,384.20 to \$14,237,997.08, thus effecting a total saving of \$2,006,315.12. The budget in detail, as presented to Congress by the Secretary of Finance and of the Treasury, estimated revenues at \$16,600,000.

Important among the legislative acts of the Government was the passing of a customs tariff amplifying and amending the existing law, with a view to improving commercial and industrial conditions.

#### COMMERCE.

Figures of the foreign trade of Colombia during 1908 placed the valuation of imports and exports at \$28,512,636, as compared with \$25,880,005 in 1907. Of the reported total, exports amounted to \$14,998,744.47, as compared with \$13,791,442 in 1907, while imports for the two periods were \$13,513,891.65 and \$12,088,563, respectively. While the trade balance, amounting to \$1,484,852.82, was not so great as that noted for the previous year, the generally improved commercial position of the country is manifest.

The United States figures covering trade with Colombia gave the value of goods received from that Republic during 1908 as \$6,897,493, while United States merchandise shipped thither was valued at \$3,690,014, a gain in the two branches of trade of over \$400,000 and \$500,000, respectively, as compared with 1907 being shown.

In consequence of the operations of the Colombian Bureau of Information, established in New York in 1906, an impetus has been given to trade intercourse between the Republics interested. The adequate exposition of the varied possibilities of Colombia has excited the increased interest of business men of the United States, with the result that companies are being formed for the capitalization and working of many hitherto unvalued resources of the country. The information furnished by the New York bureau is supplemented by the valuable reports received from the United States consuls stationed in Colombia.

At the ports of New Orleans and San Francisco, Colombian products are received to the value of about \$2,000,000 annually, the greater part of the banana shipments going to the former place.

The principal items shipped from Cartagena to the United States was coffee, valued at \$1,310,769, which showed a gain of \$170,000, gold ranking next, with a value of \$789,241.33, followed by hides, \$171,860.67; hats, \$121,617.16; rubber, \$82,585.93; cedar and mahogany, \$65,674.89; ivory nuts, \$46,715.21; platinum, \$24,107.10; and ipecac, \$20,516.17. In comparison with 1907, shipments of hats showed a small decline of about \$4,000, cedar and mahogany something over \$7,000, and platinum, ipecac, and rubber decreased export values. On the other hand, a gain of about \$15,000 was noted in exports of ivory nuts, while shipments of hides, since the removal of the government monopoly, have increased to \$171,860.67, as compared with \$49,995 in 1907. The decline in shipments of platinum from \$93,539 in 1907 is partly explainable by the decrease in price and by the withdrawal by the Government of the right of filing on platinum ground.

Coffee, cattle, hides, rubber, tobacco, ivory nuts, and mineral products compose the bulk of the country's exports. Of the coffee exports of the Republic about 67 per cent goes to the United States, most of the tobacco to Germany, and the cotton to Liverpool or Havre. The principal imports are flour, lard, petroleum, and cotton goods from the United States; sugar, rice, and potatoes from Germany, and cotton textiles from Great Britain.

#### PRODUCTION AND INDUSTRIES.

Many measures are under consideration by the Government for the development of the natural sources of wealth. The value of the country as a producer of cacao, rubber, and bananas is well established and cotton growing has been the subject of a favorable experimental enterprise. The cultivation of bananas, wheat, and maize is regarded as more desirable at the present time, as quicker returns are yielded than from coffee, sugar, etc. Railways are much needed

for the opening up of new and fertile regions, while the mineral resources of the country are well worth exploitation. For the purpose of aiding national enterprises, modifications have been made in the customs tariff on articles for railway construction, mills, agriculture, etc., all of which have been placed on the free list. Reduction in duties has been effected on other articles of common consumption.

Colombia, with its tropical and temperate climatic zones, should be able to vie with any country in the nature of its products. Its cacao is equal to that of Guayaquil, its rubber compares favorably with that of Brazil, and the native banana is unsurpassed by those of any other land. Experiments in cotton have demonstrated that there are areas in the country suitable for this class of production, and the tariff protection afforded by the Government to manufactures of the native cotton have greatly stimulated both the culture and the working of the product.

The coasts and hot regions produce corn, sugar cane, sea island cotton, rubber, cacao, bananas, fibers, tropical fruits, and vegetables, while the mountains and uplands yield coffee, apples, peaches, potatoes, wheat, barley, and all of the products of the temperate zone. The entire country is suitable for stock raising, the pastures in many sections remaining green the year round. Few countries contain the latent wealth and favorable conditions for developing and exploiting it to such a degree as does the Republic of Colombia.

As regards banana cultivation, the lands between the Santa Marta and the Fundacion rivers, which are connected by 90 miles of railroad, are of particular fertility, and the Government is preparing to develop them through an extensive system of irrigation.

The town of Santa Marta is situated east of Santa Marta Bay on the Caribbean coast, and is the northern terminus of the Santa Marta Railway, which runs southward for 58 miles over a coastal plain, or the great banana-raising region of Colombia. During the year 1908 this road carried 51,397 tons of bananas alone. At present the commercial importance of Santa Marta depends almost entirely upon its large and increasing shipments of this fruit to the United States.

The first shipment of bananas was made in 1891, and for thirteen years the amount exported never reached 500,000 bunches in any one year. In 1904 there were exported 787,244 bunches, and in 1908 the number reached 2,241,580. It is estimated that within four or five years not less than 5,000,000 bunches of bananas will be exported annually.

A textile plant of commercial value has been discovered in the Colombian forests of Carare by José Maria Lindo, a naturalist of Bogota. The plant has been assigned to the Bromiliaceous family and is said to furnish a fiber especially suitable for use in the manufacture of curtains and other textiles for household adornment.

On the Magdalena, which is navigable by means of river craft for 1,400 miles, adequate labor supply is obtainable for large plantations of cacao and rubber, and with a sufficient population the Santa Marta district could within three years increase its production tenfold. The valleys of the rivers Leon and Atrato have long been recognized as having proper characteristics for the cultivation of this fruit. On the Sinu River there is also much good banana land, as well as an area suited to the cultivation of oranges, pineapples, alligator pears, and many other tropical products. This is the great cattle belt, as it is also the source of the cedar and mahogany exported from Colombia. In this valley are both coal and petroleum awaiting capital for their development.

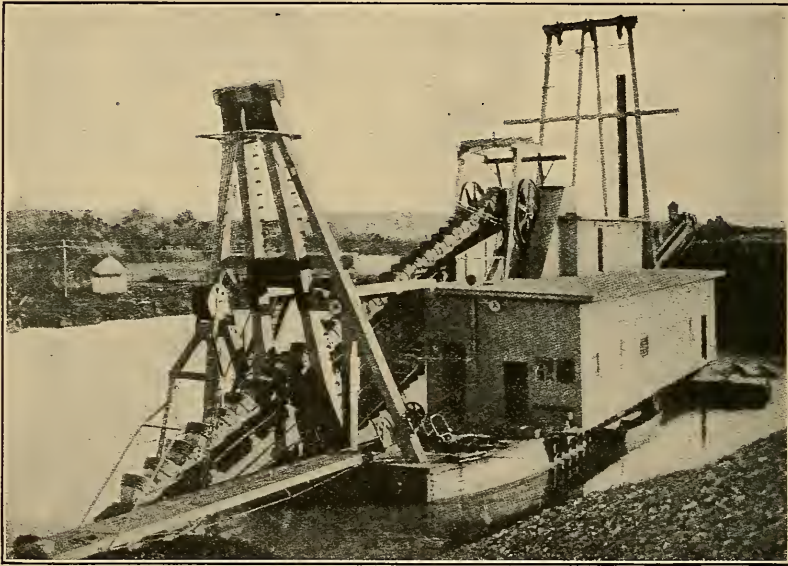
The coffee crop of the Republic yields annually about 600,000 bags. About 25,000 bags are retained for home consumption, the remainder going to the United States and Europe, and meeting with increased favor in those markets. The principal coffee districts are the Department of Cudinamarca, which produces the renowned Bogota brand; the Department of Santander in the Ocana, Cucuta, and Bucaramanga districts, and in the Tolima and smaller valleys of the Cordilleras. The bean may be grown in almost all parts of the Republic where the temperature varies from about 59° to 77° F. In the hotter climate the bean is larger, but requires shading, while in a colder region a smaller bean is produced with less care.

United States capitalists are showing considerable interest in the exploitation of rubber; in the operation of gold, silver, platinum, and other mines; and in the development of the agricultural resources of the Republic. A Boston syndicate of capitalists has organized the Colombian Development Company, which proposes to exploit a number of industries in the country. Other capitalists are becoming interested in the Republic, and especially in the forest, mining, and agricultural resources of the Department of Magdalena, where bodies of most excellent timber, Spanish cedar, and mahogany of the finest quality and other valuable trees of beautiful grain have been discovered, much of which is of easy access by the Magdalena River.

The new mining code and law relating to public lands, promulgated during the year, are prominent factors in the stimulation of the activities along the lines indicated.

In some Departments, notably Antioquia, the mineral industry is well established, while the Marmato and Riosucio gold deposits are said to be equal to those of the Transvaal. A French company has been organized for the exploitation of the surface veins of Alta, Baja, and Vetas in the Department of Santander. Large quantities of machinery and material have been sent to the country for the equipment of the plant, and engineers have arrived for the immediate installation of the works.

The Choco district is of recognized importance, and at present native and foreign companies are engaged in the development of the region. It is said that the entire Pacific coast of Colombia has been formed by gold-bearing alluvial, so that with more effective development a great mining center will be established. Near Tuquerres and Samaniego, in the Department of Nariño, gold deposits are being profitably worked, while in the Central Cordillera region exploitation has scarcely begun. Abundant deposits of coal, iron, copper, lead, and cinnabar are known to exist on both slopes, so that Colombia may be regarded as a rich storehouse of minerals, as well as a vast area of agricultural and pastoral resources.



A DREDGER AT WORK IN ANTIOQUIA DISTRICT, COLOMBIA.

These dredges have a capacity of 150 cubic yards of alluvial gravel per hour. Their operation is so economical that a yield of gold to the value of 15 cents per yard will net a profit of 30 to 60 per cent. A large part of the gold fields of Colombia are of such a character as to make these machines peculiarly adaptable for the development of the industry.

The great gold-bearing region is found in the lofty cordilleras of the Choco and Antioquia provinces and in the mountain ranges that separate the Cauca and Magdalena rivers. In this large area of many thousands of square miles, wherever there is gravel there is gold, and back in the mountains where the rock has been laid bare veins are found everywhere. These veins contain vast treasures of gold that can be extracted by the systematic use of modern machinery and methods. Many hundreds of miles of this rich territory have never been explored except by the Indian hunter.

The Choco placer region has twice as much territory as both the California and New Zealand regions together, and the possibilities



for development are infinite. The construction of the Colombia Central Railroad will greatly stimulate mining in this part of the Republic, its northern terminal being opposite the mouth of the Atrato river. Much of the gravel of the river beds of the gold-bearing rivers of Colombia can not be worked, because it is impossible to divert the streams, and the huge boulders and hard bed rock, together with torrential currents, often render dredging impossible by any of the methods known to the mining industry of the present day.

Recent gold discoveries near Neiva, on the upper Magdalena River, have opened up a new section of the gold belt. It is known that the State of Nariño, bordering on the Ecuador line, is rich in gold. Gold nuggets are found in the gravel beds of all the rivers of this section flowing into the Pacific Ocean.

The development of the quartz mining depends almost entirely upon transportation. The extension of the Dorado Railroad and the Tolima Railroad will facilitate transport to some of the mines of the eastern slopes of the gold belt of the Republic, and the Colombia Central Railroad, when completed, will pass through the very heart of the gold region and, in addition, will provide direct transportation from the coast.

Discoveries have been made of rich gold-bearing quartz on the headwaters of the Andaguada and Chirvigo rivers, distant about 125 miles from Quibdo, one ledge being reported 18 feet wide, running about \$50 gold per ton, and other veins, one carrying about 8 to 10 per cent copper, range from 6 to 8 feet in width.

Russia is the only country whose platinum output exceeds that of Colombia. This metal, which is always found mixed with gold, comes from the gravels of the Choco, its main source being the Platina and Condoto rivers, which are tributary to the San Juan River. It is also obtained from some of the streams that flow into the Atrato River.

Government returns covering platinum exploitation have not been published for a more recent period than 1905, but from records in the Bureau of Statistics of Bogota the total yield for exploitation during 1907 amounted to about 245 ounces. There is undoubtedly a great future for this branch of mining industry in the Republic, and concessions recently granted foreshadow the intention to adequately exploit it as a source of national wealth.

The emerald mines of Colombia are among the most valuable properties within the Republic. At the time of the Spanish conquest the Muzo and other deposits were exploited in a primitive manner by the Indians, and since that period the stones from Colombian mines have been unequalled in richness of color and brilliancy. The Colombian gems exhibit in the highest degree the qualities of color, brilliancy, flawlessness, and size characteristic of the best emeralds,

and the Muzo district is at present the principal source of supply. The exploitation is under control of the Government, and these mines have recently been leased to an English syndicate, which agrees to sell at least \$1,250,000 worth of stones each year for twenty years. The lease in the original call for bids was valued at \$360,000 annually. The sales are to be under government inspection, and competition is practically impossible by reason of legislation forbidding the sale of uncut stones and the imposition of taxes on privately exploited mines.

This lease will justify the installation of labor-saving machinery and improving the water supply with a view to securing a more uniform output, which improvements would not be profitable under a shorter lease.

According to the latest report, for the year 1907, the government receipts from the Muzo and Cosquez mines amounted to \$371,301.10. The Muzo mines are situated about 75 miles north of Bogota, in the State of Boyaca, and have an area of 140,000 acres, of which only about 50 acres have been exploited in the last twenty-five years. Close by is the Cosquez group, though at a somewhat greater elevation, covering an area of nearly 5,000 acres. It is from these mines that the Spaniards obtained many of their gems, but the exact location of the valuable deposits has been lost. The Cuincha mines are about 6 miles southeast from the Muzo group and about 78 miles north of Bogota, at an altitude of 1,950 feet, covering an area of 1,100 acres. This group has been favorably reported on, but not yet worked. The Somondoco group consists of five separate mines about 80 miles northeast of Bogota and situated at an elevation of 6,500 feet above sea level.

Coal is found nearly everywhere in the cordilleras, lignite on the coasts, and coking and steam coal in the interior. Valuable deposits have recently been discovered between the Atrato and Leon rivers; in short, the Colombian coal fields are well located to take advantage of the market facilities which will become available with the completion of the Panama Canal. In the absence of definite statistics it is impossible to give even an approximate computation of the country's coal deposits, which form a valuable asset as yet almost untouched and very little explored, the mines which have been opened being worked only in a superficial way.

The petroleum deposits of Colombia resemble those of the Beaumont (Tex.) oil fields. The oil has an asphalt base. Natural petroleum springs are frequent, one having been encountered near the Atrato and Leon rivers, which yields about a pint of petroleum an hour. Without doubt this section is an extension of the coal and oil belt heretofore known to exist, reaching from near Cartagena to the valley of the Sinu River. A concession has been granted for

a term of thirty years for the exploitation of the petroleum and for the operation of oil-refining works in a specified section of the Department of Santander, included within an area 100 miles in length by 60 miles in width. The concessionaires agree to invest in one or more refineries within a period of five years all the capital which may be necessary for effective working, and during that period the Government agrees to admit, duty free, all necessary materials.

Iron ores are abundant in the Republic, while the provinces of Antioquia, Cauca, Tolima, Boyaca, and Cundinamarca contain veins of copper ore. Much of this ore is of high grade, but owing to lack of transportation facilities the deposits, except in rare instances, remain unworked. Nitrate beds are also encountered in the district east of the capital, and shipments of high-grade asphalt are made from Santander.

At Zapaquira, near Bogota, and in the hills bordering the Ubia River, there are large deposits of rock salt. The Government holds a monopoly on salt mining, the returns from this industry, together with marine salt, in 1907 amounting to \$704,284.95 net. For the first six months of 1908 the mines yielded \$321,081.60, the net revenues to the Government from the Zapaquira mines for the year being \$375,554. The salt obtained from sea water is under the administration of the Central Bank, which receives 5 per cent of the net receipts.

During 1908 the output of the Galera Zamba works amounted to 98,000 bags of 62½ kilograms each, worth \$382,000, while those of Magdalena, Santa Maria, and Rio Hacha yielded about 120,000 bags, valued at \$480,000, a total valuation of \$862,000, the net returns to the government revenues exceeding one-half of the gross amount. None of the salt produced in the country is refined or ground, being sold in crude form to retailers, some of whom have it ground for table use, but a small quantity of it is shipped abroad. Duties designed to protect the native product have been levied at various times.

The development of manufacturing industries is the object of government interest, and many concessions granted during the year provide for the installation of flour and sugar mills, textile and other factories, in many cases the necessary machinery and implements being admitted into the country free of duty. The flour milling industry is new to the Caribbean coast country, where formerly practically all the wheat flour used was imported from the United States, but in the uplands of the interior, where wheat can be successfully grown, the industry has flourished for some time. American machinery, once tried in the mills there, has competed so successfully with that of other countries as to establish to the satisfaction of millers in Colombia its superiority over all others, with the result that machinery from other countries is now rarely seen in the mills of the Republic. A new mill with a capacity of 100 barrels daily, the second mill equipped

with American machinery to be established in Barranquilla within three years, has recently been started. Wheat from the United States will be ground in the mill. The milling industry in Colombia seems a most remunerative one, yet the flour supply in the coast country never equals the demand, and though the establishment of new flouring mills should eventually care for the entire local market, at present large amounts of American flour are being imported.

At Sincerin a sugar factory has been grinding the cane from 3,000 acres, the first harvest of which produced 12,000 metric tons, or 265,000 bags, of sugar. Thirteen hundred men are engaged in installation of the plant and extending the plantation. The establishment of other factories of this character await only the development of transportation facilities.

The hosiery factory recently erected at Medellin is reported to be turning out good weaves. The machinery and yarns employed were of United States origin, while another mill which began operations at the close of 1908 received its stock entirely from Great Britain. A spinning mill is to be added to this establishment.

About a year ago a concession for the founding of a match factory in Bogota was granted. For the purpose of encouraging this new industry the Government permitted part of the machinery and raw materials used in the manufacture of matches to enter the Republic free of duty. At the present time the factory employs about 40 operatives, many of whom are women, and is manufacturing as good a quality of matches as those obtained from abroad, being able to sell them at a lower price than is charged for the foreign article. The output of the plant is constantly increasing, the factory now having almost the entire trade of the capital and vicinity and is extending its business into other sections of Colombia.

The monopoly of production and sale of liquors by the Government was introduced in 1905, and the transfer of its administration to the Government is under consideration. This monopoly produced \$2,095,001.21 in 1907.

A concession has been granted to a number of Colombian citizens conveying to them the exclusive privilege of the manufacture of denatured alcohol for a period of five years in the district of Bogota and the Department of Cundinamarca.

It is the desire of the Colombian Government that the growers and producers of cane sugar should interest themselves in the manufacture of this product, and with this end in view they will be given the preference in the subscription to stock in the company to be organized in connection with the concession.

The monopoly on hides was abolished in the early part of 1908, and replaced by a slaughter tax on cattle of \$2.50 for every ox and \$3 for every cow.

## RAILWAY AND STEAMSHIP COMMUNICATION.

At no time in her history has Colombia given as much attention to the development and extension of means of communication as at the present time. Branch lines of the existing railways and new roads and highways are being constructed in nearly every section of the country, thus affording the vast mineral wealth and other natural resources of the country means of transport to the coast. The total extent in 1907 was 450 miles, concessions covering 1,570 miles additional having been granted.

In February, 1909, the Girardot Railway joined the Sabana Railway at Factativa, thus connecting Bogota with Girardot, on the Magdalena River, and establishing a direct communication with the coast. This road is, of course, of the utmost importance to Colombia, as it connects the capital of the Republic with the coast; but another railway of considerable importance is the Pacific Railway, which will connect the port of Buenaventura, on the Pacific coast, with Cali and which has recently been opened as far as Papagayeros. It is expected that in July, 1910, the railway will be completed as far as Cali, whence it will be continued to Palmira, thus opening up the fertile valley of Cauca.

Foreign banks have offered the Buenaventura Railway Company funds with which to complete its line to Cali and for its extension to Popayan and Cartago, and money can now be obtained in London for the construction of the Puerto Wilches Railroad. Work on the railway from Puerto Berrio, on the lower Magdalena River, which is to be extended as far as Medellin, has been resumed, the Colombian Government having negotiated a loan for that purpose during the year.

The condition of the railways of the Republic on July 20, 1908, was as follows:

*Sabana Railway.*—This railway is equipped with first-class rolling stock and in sufficient quantity to meet the demands of traffic. It is under the direction of the Central Bank, which looks after the service and attends to the preservation of the road. The profits derived from this line are a source of considerable revenue to the Government.

*Southern Railway.*—This road is the property of the nation, but since September, 1907, in accordance with the contract made with the Government, it has been under the direction of an English company. Negotiations are now under way looking to a sale of the road.

*Northern Railway.*—The section of this railway from Bogota to Zapaquira is in the hands of the Colombian Northern Railway (Limited); an English company having offices in the capital, and which has complied with the terms of the concession. The section

from Zapaquira to Chiquinquirá is under the direction of the Colombian Central Railway Company (Limited). Work has been temporarily suspended on this line from Nemocon toward the terminal point. The Government is at present considering a modification of the concession.

*Girardot Railway.*—The Government has shown particular interest in this road, not only because it is a shareholder but principally on account of the necessity of this line to the material develop-



North side of the San Carlos Palace, Bogotá, Colombia, which contains the offices of the Ministry of Foreign Affairs of the Republic. The historic window which shows the memorial stone is the one from which Liberator Simon Bolivar escaped from attempted assassination, September 25, 1828.

ment of the interior of the Republic. The road is in exploitation from Girardot to Factativa.

*Dorada to Honda Railway and extension to Ambalema.*—The first section of this railway was opened to traffic by the Dorada Railway Company (Limited) several years ago, since which time branch lines have been built and the roadbed and bridges improved. The extension of the National Western Railway of Colombia by the Dorada Extension Railway Company (Limited) was completed in 1907 and opened to traffic by the President of the Republic in September of that year.

*Junction of the Girardot with the Dorada Railway.*—Negotiations are in progress for the construction of a railway uniting the Girardot with the Dorada Railway, so that in a short time it will be possible to travel by train from Bogota to a point on the Magdalena River, and thence by boat down that stream to the coast.

*Cauca Railway.*—Work is rapidly progressing on this line, and it is hoped that it will be completed to Cali on July 20, 1910.

*Great Northern Central Railway.*—The survey and plans of this line have been completed. Money is being raised for the construction of the line, and engineers have already been sent from London with sufficient material to begin the building of the road.

*Puerto Berrio and Medellín Railway.*—This line has been constructed to kilometer 102, from which place it is being built toward the terminal point as rapidly as the available funds will allow. Up to the present time the Government has furnished \$116,000, and negotiations are now under way looking to the completion of the line to Medellín as soon as possible.

*Santa Marta Railway.*—The exploitation of the part of the Santa Marta Railway already constructed and the extension of the line to Port Banco, the terminal point on the Magdalena River, is under the direction of the Santa Marta Railway Company (Limited), an English corporation. The section open to traffic is 95 miles long. The Government is negotiating with the company for the construction of branch lines to different banana plantations, and is endeavoring to obtain the lowest freight rates possible for the transportation of that fruit.

*Tundama Railway.*—The option on the railway contract made by the Government with TOMAS G. RIBON in February, 1907, expired in August last.

*Other railways.*—The Cartagena, Barranquilla, and Cucuta railways, which have been in operation for several years, have continued to be exploited in accordance with the various contracts and concessions under which they were constructed. The preservation of the line of each of these railways has been properly attended to.

The following lines are in contemplation:

*Uraba Railroad.*—To connect the mouth of the Atrato River, on the Caribbean, with the city of Medellín, capital of Antioquia.

*Northern Central Railroad.*—To connect Nemocon with Santa Rosa de Viterbo, capital of the Department of Tundama.

*Riochacha Railroad.*—From Riochacha, on the Atlantic, to Valledupar.

*Tamalameque Railroad.*—From the port of that name, on the Magdalena River, to Cucuta.

*Nariño Railroad.*—From the Pacific Ocean to Pasto, capital of the Department of Nariño.

*Amaga Railroad.*—From Amaga to Medellin, capital of the Department of Antioquia.

*Santander Railroad.*—From Puerto Wilches, on the Magdalena, to Bucaramanga, capital of the Department of Santander.

Among the important proposals recently made by President REYES was one suggesting the construction of a railway to connect with the Cartagena Railway, leading southward parallel to the Caribbean coast, passing through Sincerin, where the new sugar manufactory is in operation, to the town of Tolú, on the Gulf of Morrosquillo. This route would open to transportation one of the richest agricultural districts of the hot zone of Colombia, a territory which has produced 11,000,000 pounds of tobacco for export during the past two years, many thousand cattle, much rice and cotton, and which, in an expanse of 98,840 acres of land tributary thereto, could be made to produce great quantities of sugar and bananas. The proposed railway would be in time a branch of the transcontinental system leading from Santa Marta, on the northeast, to Colon, at the mouth of the Panama Canal.

The Government of Colombia and the commercial interests of Cartagena are again considering the dredging and reopening to traffic of the canal leading from the Magdalena River at Calamar to the opening into the bay of Cartagena, with a view to reestablishing direct steamboat connection between this port and the ports of the Magdalena.

#### STEAMSHIPS.

The principal port of Colombia is Barranquilla, situated at the mouth of the Magdalena River. Other ports are Cartagena, Santa Marta, Rio Hacha, and Sabanilla, on the Caribbean Sea, and Buenaventura and Tumaco, on the Pacific Ocean.

The Hamburg-American Steamship Company (Atlas Line) maintains a regular weekly service between New York and the ports of Sabanilla, Cartagena, and Santa Marta, and the Royal Mail Steam Packet Company's steamer's call fortnightly at Sabanilla and Cartagena, both lines employing from ten to eleven days for the trip, their rate for first-class passage being \$50.

From New York the Pacific ports of Buenaventura and Tumaco can be reached either by way of the Isthmus of Panama or by way of San Francisco. Both the Pacific Steam Navigation Company and the Kosmos Line call regularly at these ports. From Panama it takes two days to Buenaventura and four days to Tumaco. The rates for first-class passage are \$32 and \$40, respectively, to which are added the cost of transportation from New York to Panama, which is \$76.05, including railway transportation from Panama to Colon.



Colombia has a fine system of interior waterways, the most important of which is the Magdalena River, navigable by vessels of considerable draft for a distance of over 800 miles and by smaller craft 600 miles farther. The Cesar, the Cauca, the Nechi, the Lebrija, the Sogamoso, and some of the smaller tributaries are all navigable for various distances. The Atrato is navigable for 220 miles inland, and the Sinu for 110 miles. Five steamship companies, with 42 vessels, maintain communication between the various river and coast ports.



INTERIOR OF A RETAIL STORE IN BARRANQUILLA, COLOMBIA.

Display of imported goods.

The city of Bogota is best reached via Barranquilla, from which point a regular steamship service is maintained with Girardot, on the Magdalena River, whence there is railway connection by way of Factativa.

The Louis Goeseken Navigation Enterprise and the Magdalena River Steamboat Company (Limited), with fleets of 21 and 15 steamers, respectively, are engaged in the service of navigation on the Magdalena River. In addition to these two, another company, operating as the *Compañía Antioqueña de Transportes*, has been organized. It will enjoy all the rights and privileges accorded the two older companies, with the exception of the mail-carrying contract and its

attendant subsidy. The company is capitalized at \$300,000, of which 90 per cent was subscribed in Medellin and the remainder in Bogota, Barranquilla, and Manizales.

The inauguration of the new company may be taken as indicative of the business prosperity enjoyed by the Republic during 1908, in comparison with previous years, when traffic on the river was not considered sufficient to warrant the operation of three companies.

During the last four years all means of communication in the Republic—railways, wagon roads, and navigation—have been notably improved and new highways extended in every direction. The most important of these is the road from Bogota to Soata, in the Department of Boyaca, which has been completed as far as Belen, a distance of 50 leagues from Bogota.

Under date of January 7, 1909, the President of Colombia issued an important decree concerning the construction, repair, and conservation of public highways. The decree provides for the appointment by the President of Government engineers and inspectors to superintend construction, inspection, and repair of highways.

The Central Highway of the North, which has been completed for a distance of more than 250 kilometers, is being extended to Piedecuesta. The highways in the Medellin Valley are being repaired, and the Government is active in the construction and repair of public roads in the various departments of Colombia.

The *Compañía del Tranvía de Barranquilla* has undertaken to substitute electric for animal traction on all of the tramways of the town of Barranquilla. In carrying out the work the company will enjoy the privilege of importing free of duty all such materials and appliances as may be necessary. This company has also undertaken to extend the electric tramway system of Barranquilla as far as Soledad.

#### POSTS AND TELEGRAPHS.

The Government of Colombia has encouraged the betterment of the postal and telegraph service of the Republic, and during the last few years the mail service and telegraph system have been extended and greatly improved throughout the country. During the first half of 1908 the total number of pieces of mail matter handled was 389,240, consisting of 83,702 pieces of foreign mail and 305,538 pieces of domestic mail, representing an increase of nearly 100 per cent as compared with 1904. In 1907 the receipts from posts and telegraphs amounted to \$335,644.57, and expenses of operation to \$889,076.35, resulting in a deficit for the year of \$553,431.78. On March 31, 1907, there were 9,161 miles of telegraph lines in the Republic. From that time to July 20, 1908, 1,168 miles of lines have been erected, increasing the mileage to 10,328 miles. The Government, for the purpose of bettering the service, has decided to separate

the department of posts from that of telegraph and telephones, and in future the two Departments will be conducted as separate bureaus.

A wireless station at Santa Marta has been opened and a high-power equipment installed, and in connection with a contract made in 1906 for the management and operation of the telegraph systems of the Republic it was provided that a theoretical and practical school of instruction in wireless telegraphy be established at Bogota.

#### INSTRUCTION.

A great improvement is to be noted in the extent and efficiency of public instruction throughout the Republic, not only in the centers of population, but also in the rural districts, where numerous public schools have been established. Evening manual training schools are conducted in various parts of the country, and this system of public instruction is receiving the earnest support of the Government. The Department, which has under its charge and supervision all of the normal schools that formerly existed, has decreed the establishment of five new normal schools, and has founded a national school of commerce on the most modern and up-to-date basis.

An executive decree of January 16, 1908, made provision for elementary instruction in hygiene, physiology, and physical culture in the public schools of the country to include colleges, manual training schools, and other institutions supported by the Government.

The number of pupils in attendance at the public schools during the scholastic year 1908 was 236,985, as compared with 223,425 in 1907. It is the intention of the Government to investigate the school systems of other countries, more especially the organization of primary schools, schools of commerce, and universities, for the purpose of improving those within the country.

In the national and departmental schools a period of six years' study is required to receive the degree of doctor of medicine or surgery. Diplomas for the practice of homeopathic medicine are granted only to those holding certificates showing that they have passed the studies of the first year in the course of medicine, anatomy, physiology, and pathology. Pharmacists are required to furnish certificates from a medical faculty or proof of two years' practice in some well-known pharmaceutical establishment before a permit for the establishment of a pharmacy will be granted. Physicians, dentists, and surgeons holding the degree of doctor of medicine granted by foreign faculties of recognized competence may, without further examination, practice their respective professions, and foreigners not possessing the degree may obtain leave to practice by submitting themselves to an examination by the Faculty of Medicine of the University of Bogota.

A decree dated March 14, 1908, created the office of sanitary inspector for the ports of Cartagena, Barranquilla, and Santa Marta on the Atlantic, this official to be intrusted with the supervision of public health at the points designated. The government of the Department of Cartagena has appropriated \$42,700 for the sanitation of its capital city. The funds were available September 1, 1908, and the work of sanitation commenced by the municipal authorities.

The repair and improvement of public buildings during the administration of President REYES has been noteworthy, and many measures have been taken along other lines looking to the application of modern systems of hygiene in the ports and inland cities.



# COSTA RICA

The Republic of Costa Rica, the southernmost of the Central American Republics, is geographically situated between latitude  $8^{\circ}$  and  $11^{\circ} 16'$  north and longitude  $81^{\circ} 40'$  and  $85^{\circ} 40'$  west of Greenwich. The Republic extends over an area of 18,400 square miles, and, although one of the smaller of the American Republics, it is larger in area than the States of Maryland, Massachusetts, and Delaware combined. Costa Rica has a population of 360,326.

The topography of Costa Rica is similar to that of other Central American Republics, inasmuch as the mountain range, which crosses its territory almost in its entirety, and which reaches considerable altitude, is the predominant feature. This mountain range influences the climate, making it pleasant on the plateaus, and, at higher elevations, quite cold at certain times of the year. It is due to this diversity of climate that such a variety of products is to be found in Costa Rica, tobacco, cacao, sugar, indigo, rice, and coffee being successfully grown, while bananas form one of its principal products of export. India rubber and cocoanuts are also gathered in the forests.

## HISTORICAL SKETCH.

When COLUMBUS, on his fourth and last voyage, had doubled Cape Gracias á Dios on September 12, 1502, after a stormy and eventful voyage, he sailed along the coast of Nicaragua and Costa Rica and landed on the coast of the latter country on October 5, 1502. The aborigines, who were at first disposed to treat the Spaniards kindly, soon became incensed at their treachery and destroyed the small settlement which COLUMBUS founded. No further attempts were made to settle the country at the time and COLUMBUS, after losing a considerable number of men and one of his ships, abandoned the attempt and returned to Spain. Other explorers who followed in his wake were no more fortunate, the Indians opposing an effective resistance and repeatedly destroying the colonies of Spaniards. HERNAN SANCHEZ DE BADAJOZ was the first to even partially subdue the Indians and, in the year 1540, founded the city of Badajoz. In the year 1565 JUAN VAZQUEZ CORONADO was appointed Governor of Neuva Cartago, as the country was then called, and finally established Spanish rule over practically all the country. He was ably assisted by the Bishop of Chiapas, BARTHOLOMEW DE LAS CASAS, who was ever active in favor of the Indians. When the

captain-generalcy of Guatemala was established Costa Rica was incorporated therewith and later, with Guatemala, formed a part of the viceroyalty of New Spain. As such its history is largely interwoven with the history of this viceroyalty.

Revolutionary movements, which sprang up in Costa Rica from time to time between the years 1811 and 1821, were suppressed with great severity by the Spanish authorities, but when, on September 15, 1821, the independence of the Central American States was declared at Guatemala, the news was received with great joy by the people of Costa Rica, and on November 12, 1821, the last Spanish Governor, DON JUAN MANUEL DE CAÑAS, was obliged to resign his office.

Upon the formation of the Central American Republic, Costa Rica became a State of the Union, and with it, in the year 1822, was annexed by the Emperor of Mexico, AGUSTIN ITURBIDE. With the fall of that short-lived empire the Central American States were once more free to adopt their own form of Government. A Constitutional Congress, which met in Guatemala, proclaimed on November 22, 1824, the constitution of the Central American Federation. Afterwards, as the States composing the Federation one by one withdrew, Costa Rica declared her independence on April 1, 1829.

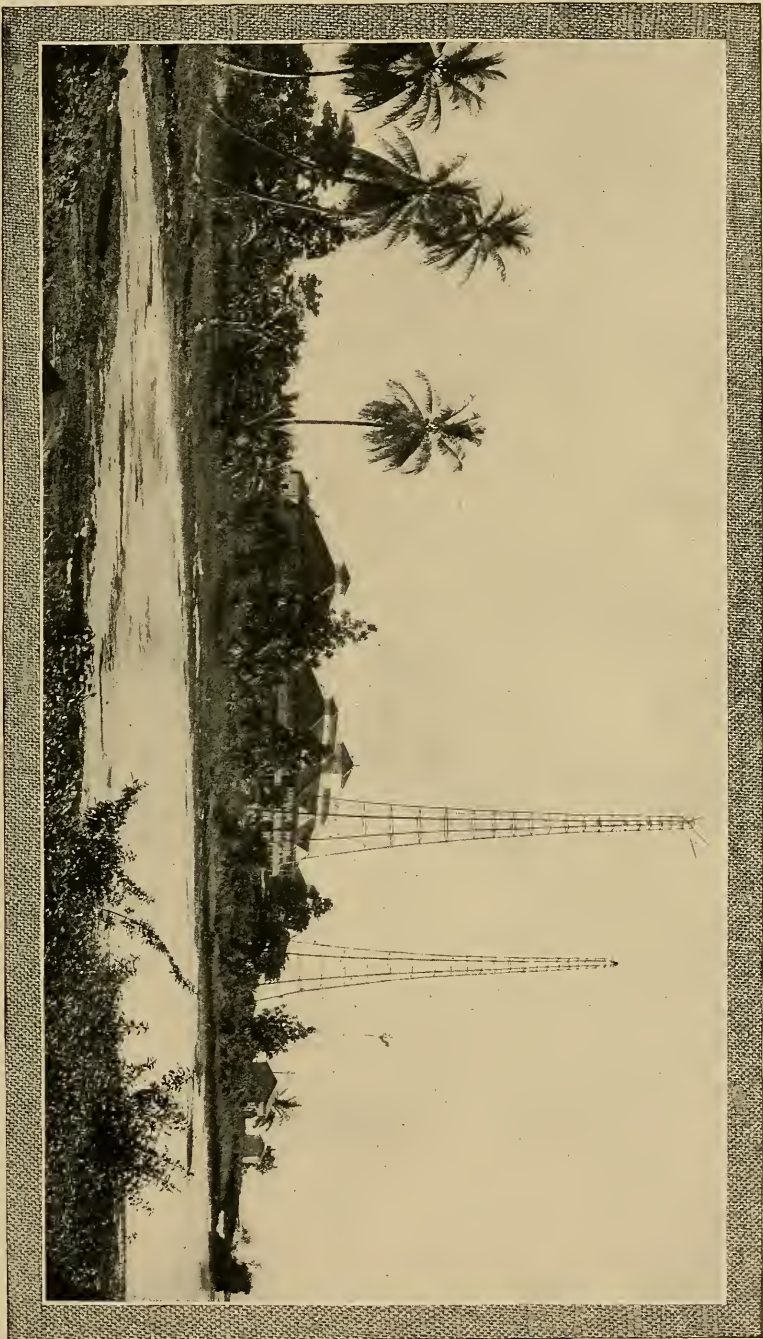
Several attempts were made by the Central American States to reestablish the Federation, but without result, and on January 21, 1847, Costa Rica proclaimed her constitution and formally adopted the title of the Republic of Costa Rica. The constitution provided, however, that if the Central American Republic was ever reestablished the constitution should be amended or abolished to conform to that of the Federal Republic. Since that time the Costa Rican Republic has progressed in peace and prosperity. Such changes in the constitution as were found necessary have been made without internal disturbance and the sovereignty of the state has been maintained at home and abroad.

#### CONSTITUTION AND GOVERNMENT.

The present constitution of the Republic of Costa Rica was proclaimed on December 7, 1871, and has been in force ever since, some slight amendments being added from time to time.

The Government is divided into the customary legislative, executive, and judicial branches with functions similar to those of the same branches in other American republics.

The Congress of the Republic is composed of one chamber, the Chamber of Deputies, elected by indirect vote of electors chosen by the people for that purpose, at the rate of 1 deputy for every 8,000 inhabitants or fraction exceeding 4,000. The Deputies serve for a term of four years, but the chamber is renewed by halves every two years.



WIRELESS TELEGRAPH STATION OF THE UNITED FRUIT COMPANY AT PORT LIMON, COSTA RICA.

A permanent committee composed of 5 deputies represents Congress during its recess and assists the President of the Republic in the interpretation of laws. This committee, in addition, prepares and puts in order business remaining unfinished from an adjourned Congress, or may formulate new bills in order to facilitate the proceedings of the coming session. It may, on the request of the Executive, issue urgent decrees, which, however, are subject to the approval of Congress in regular session. It may, when so invited, form a part of the Council of Government, although as such it acts only in an advisory capacity.

The President of the Republic is elected in the same manner as the deputies, i. e., by an electoral college chosen by popular vote, all citizens over 20 years of age being entitled to suffrage. The President's term of office is four years, and he may not be reelected for a second consecutive term. Three *designados*, known as first, second, and third, are named by Congress to represent the President in case of his death, absence from the country, resignation, or inability to exercise authority. The designados assume and exercise office in the order of their appointment.

A Council of Government assists the President, composed of members of his cabinet and such other citizens as the President may from time to time appoint. Four ministers or secretaries of state form the Cabinet.

The judicial powers are vested in a National Supreme Court, two Courts of Appeals, several criminal and civil courts, as well as a number of district and municipal courts and justices of the peace. The 5 justices of the Supreme Court are chosen by the Congress, while the other justices are appointed by the Supreme Court, for a term of four years.

The territory of the Republic is divided politically into five provinces and two comarcas, which are again divided into cantons and these into districts and municipalities. The provinces and comarcas are administered by governors appointed by the President of the Republic. Upon recommendation of the governors the canton and district chiefs are appointed and are assisted by municipal councils, elected by popular vote.

The provinces and comarcas of the Republic, with their respective capitals, are:

Province of—	Capital.
San Juan.....	San José. <sup>a</sup>
Alajuela.....	Alajuela.
Heredia.....	Heredia.
Cartago.....	Cartago.
Guanacaste.....	Liberia.

<sup>a</sup>Also the capital of the Republic.



Comarca of—	Capital.
Puntarenas.....	Puntarenas.
Limón.....	Limón.

President.....	Señor CLETO GONZÁLEZ VÍQUEZ.
Secretary of Foreign Affairs, Justice, and Public Instruction.....	Señor RICARDO FERNANDEZ GUARDIA.
Secretary of the Government and Police....	Señor ALFREDO VOLIO.
Secretary of the Treasury, Commerce, and Fomento.....	Señor OSCAR F. ROHRMOSER.
Secretary of War and Marine.....	Señor VIDAL QUIRÓS.

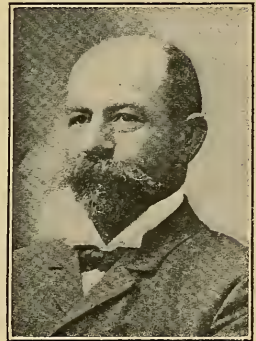
NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is \$8,350 per annum.

## COSTA RICA IN 1908.

Politically, Costa Rica's history during 1908 was one of peace and tranquillity, affairs under the continued administration of President GONZÁLEZ VÍQUEZ demonstrating the advantages accruing from the application of the principles of an exalted patriotism. Adverse natural conditions, however, militated against the high standard of material prosperity so abundantly maintained during the preceding year.

Disastrous storms caused comparative failures in the most important crops, followed by a natural decline in commercial transactions which entailed losses in business enterprises, all of which conditions brought to bear upon the public treasury the inevitable consequence of economic depression. Total trade declined by about \$3,500,000, the loss in imports figuring for something over \$2,000,000, while exports showed a decrease of over \$1,000,000.



SR. DON CLETO GONZÁLEZ VÍQUEZ,  
PRESIDENT OF COSTA RICA.

An epoch-marking event transpired on December 19, 1908, when the Central American Court of Justice, sitting at Cartago, Costa Rica, rendered its first decision in the settlement of Central American questions. This tribunal, inaugurated through the action of the Peace Conference held in Washington in the closing month of 1907 has led to the application of the term "The Hague of the New World" to the town of Costa Rica in which the court holds session. The court was inaugurated in May, 1908, and its beneficent influence has been felt in Central America. Mr. ANDREW CARNEGIE, who contributed \$100,000 for the erection of a suitable edifice for the holding of the sessions, received the sincere thanks of the Government for his generous gift. Work has already been commenced upon the structure and it is hoped that a few months more will see its completion.

## FOREIGN AFFAIRS.

The relations of the Republic with other nations continued cordial and friendly. Reciprocating the courtesy of the United States and Mexico, which Governments sent representatives to attend the inauguration of the Central American Court of Justice, the Republic accredited Mr. LOUIS ANDERSON, Minister of Foreign Affairs, as Special Envoy to the Governments mentioned, and the cordial manner in which he was received afforded great satisfaction to the country.

The Third International Sanitary Conference of the American Republics, held in Mexico December, 1907, chose San José, Costa Rica, as the meeting place of the next conference, to be held in December, 1909, and elected as President of that Conference a distinguished Costa Rican, Dr. JUAN J. ULLOA.

On October 26, 1908, the Republic of Costa Rica approved the treaties of arbitration for pecuniary claims of Patents of Invention, Drawings and Industrial Models, Trade-Marks, and Literary and Artistic property, of Status of Naturalized Citizens and of International Law, signed at the Third International Conference of the American States held at Rio de Janeiro in 1906.

A postal convention *ad referendum* with Jamaica was signed in San José on June 25, 1908, by the representatives of Great Britain and Costa Rica, and was approved by President GONZÁLEZ VÍQUEZ on August 4, 1908. The exchange of postal money orders was the principal feature of the convention. The convention with Italy for the exchange of parcels by post became effective by Executive decree on July 1, 1908. The value of such parcels was limited to 500 francs.

## FINANCE.

The desire of Costa Rica to settle the exterior obligations of the country was evidenced by the expressions of the President in his annual message to Congress in 1907, and although two projects were submitted during 1908 it was found impossible to come to any definite adjustment of the matter. The service of the internal debt has been regularly maintained and large sums of money devoted to internal improvements.

The revenue for the fiscal year ended March 31, 1908, amounted to \$3,787,000, and expenditures to \$4,398,000, the deficit being occasioned by such extraordinary expenses as railway construction, construction of public buildings, and the establishment of the liquor monopoly by the Government.

The estimated expenses for the year 1908-9 were placed by the Congress at \$3,458,730, and revenue from all sources at \$3,541,450. The customs receipts from April 1 to December 31, 1908, amounted to \$1,453,203; receipts from consular tax, \$36,798; tax on liquors,

\$646,280; sealed paper, \$155,273; from the Pacific Railway, \$87,844; and from sundry sources, \$42,866. The receipts as a whole were \$222,735 less than the amount estimated in the budget.

On March 31, 1909, the banks of issue in the Republic held \$512,185 in bank bills and a reserve fund of \$237,392. A comparison of the cash on hand in the banks of issue in December, 1906, with the balances maintained in December, 1908, showed the domestic and foreign gold reserve to have decreased in the latter year as compared with the former to the extent of about \$279,000. The decrease is accounted for by the short crops of previous years, which necessitated gold shipments to meet deficits in trade abroad. A new banking institution under the name of *Banco Mercantil de Costa Rica* with a capital of \$500,000 was recently established in the capital and is conducting a successful business.

With a view to improving sanitary conditions in San José, the capital and, in the municipalities of Heredia, Santo Domingo and Barba, the Department of Finance resolved, on January 9, 1909, to issue two series of municipal sanitation bonds.

The Government has suppressed the fees charged abroad for Costa Rican consular invoices, but a surcharge of 2 per cent on the amount of import duty levied on merchandise is collected by the customs authorities at the port of entry.

#### COMMERCE.

Commercial transactions aggregating \$13,386,930 in 1908 decreased by \$3,556,950 as compared with 1907, the imports amounting to \$5,629,405, or nearly 25 per cent less than those of 1907, and exports to \$7,757,525, a loss of over 10 per cent.

In imports the United States occupied first place with 46.5 per cent, Great Britain second with 22.8 per cent, Germany third with 15.05 per cent, and France fourth with 7.7 per cent. The United States also figured first in the export list with 52.77 per cent, and Great Britain second with 43.03 per cent. Of the total trade, exclusive of cattle, 52 per cent was with the United States, and 32 per cent with Great Britain. The commerce of the United States with the Republic is constantly increasing.

Receipts of merchandise from the United States were valued at \$2,617,673.47; from Great Britain, \$1,282,378.53; Germany, \$647,225.50, and other countries \$882,127.82. Export values were distributed as follows: United States, \$4,095,560.08; Great Britain, \$3,338,505.16; other countries, \$325,460.01.

The imports for 1908 in the order of their importance were: Fabrics, \$1,276,409; flour, \$380,412; live stock, \$239,498; and machinery, \$181,427. The imports by parcels posts for the same year amounted to \$366,004, of which 32 per cent came from Germany, 28

per cent from France, 19 per cent from the United States, and 15 per cent from Great Britain.

The exports for 1908 in the order of importance were: Bananas, \$5,030,004; coffee, \$2,199,545; gold and silver bullion, \$738,858; cacao, \$79,518; lumber, \$76,413; hides and skins, \$62,652, and other articles, \$54,536.

Coffee exports were scarcely 52 per cent of those recorded for the preceding year, shipments for the year being something less than 8,977,531 kilos against 17,325,531 in 1907. The exports for the year 1909 are estimated at 200,000 bags.

During the year the banana industry suffered a loss estimated at 2,000,000 bunches, due to the effects of violent winds and storms.



BANANA PLANTS.

Practically all of the fruit is shipped to United States ports, but an extensive propaganda with satisfactory results is being made to introduce Costa Rican bananas into European ports.

On October 29, 1908, a duty of 1 cent gold, per bunch, was placed upon exports of bananas, provided the United Fruit Company would renounce its franchise. This the company refused to do, and therefore remains in the enjoyment of its franchise until October 29, 1910. At the present time the fruit company admits no restrictions that bind it to fixed prices and conditions, and exercises the same liberty in its dealings with producers as any other trader in any other product with the result that the state receives no benefit from its operations.

Cabinet and dye wood shipments for 1908 showed a decrease as compared with those of 1907, amounting to \$148,596, while shipments of gold and silver bullion increased by \$153,132. Exports of cacao in 1908 showed an increase over those of 1907 although the price obtained was slightly lower than that of the previous year.

The number of horned cattle imported during 1908 was 8,613 as compared with 27,539 in 1907.

The cattle imported into the Republic after January 1, 1909, were exempt from duty, and at the same time the state ceased paying a bounty on cows and heifers brought in for breeding purposes. The state will, however, until December 31, 1911, continue to pay the maritime and land freight on fine breed cows and bulls imported from Europe and the United States. Exportations of fine cattle are now subject to a tax of \$11.63 per head and in the event of the animal exported being one brought in at the expense of the state the export charges shall be increased by the amount of the freight charges originally paid upon the animal. Other important regulations in reference to the shipment of live stock have been promulgated. The National Society of Agriculture is interested in the improvement of this branch of national industry, the establishment of pedigree registers, and the holding of agricultural and stock fairs. The society also interests itself in securing seed of the best grades for the use of agriculturists and recommends the importation of agricultural machinery of the best type and of fertilizers.

The mining industry is in a flourishing condition, and is being encouraged and stimulated by the Government by the free importation of mining machinery, tools, implements, and materials required in the exploitation of mines.

#### COMMUNICATION FACILITIES.

About 400 miles represents the extent of Costa Rican railways.

With the completion of the Pacific Railway, of which the final 12 miles are under contract to be completed in the closing months of 1909, Costa Rica will have an interoceanic line 170 miles in length, in two divisions—the Atlantic section, Port Limon to San José, 103 miles, and the Pacific section, San José to Puntarenas, 67 miles. The Atlantic section is owned by the Costa Rica Railway Company, an English corporation, and is leased to the Costa Rica Northern Railroad, an American corporation owned by the United Fruit Company. The Pacific section is owned by the Costa Rica Government. Both roads have a gauge of 3 feet 6 inches, are well constructed, with steel and iron bridges, suitable stations, and side tracks, and are maintained in good condition. The terminal at Port Limon has two large wharves, which can accommodate 6 large and 2 small steamships.

At Puntarenas the harbor has only 15 feet of water at low tide, necessitating the handling of cargoes by lighters.

If contractors comply with the promises made to the Government the Pacific Railway will be completed early in 1910. When this line is opened to traffic, and the Panama Canal finished, Puntarenas will be in a position to rival the port of Limon, and an outlet for coffee shipments via the Pacific will be available.

The Northern Railway Company, operating the Costa Rica Railway Company's lines under a working agreement, have extended various branch lines for the service of the banana industry, and have carried out important improvements, notably the remodeling of the Limon freight yard and various sectional developments. The rolling stock has also been increased by 7 new 76-ton engines and 200 freight cars. The mileage of lines terminating at Limon is as follows: Costa Rica Railway, main line 137.47 miles, branches and sidings, 63.36 miles; and Northern Railway, main line, 43.48 miles, branches and sidings, 87.34 miles.

The Government has opened for travel a bridge over the Barranca River and another over the Rio Grande at Paso del Alumbre.

The importation free of federal, state, and municipal duties of necessary materials, supplies, and rolling stock for the construction and operation of an electric tramway between Cartago and San José has been authorized by the Government.

#### STEAMSHIPS AND WATERWAYS.

Costa Rica, with a seacoast on both the Caribbean Sea and the Pacific Ocean, can be reached easily from New York and the Gulf ports, as well as from San Francisco and the West Coast.

The principal port on the Atlantic seaboard is Port Limon and on the Pacific coast Puntarenas, other ports on the Pacific being: Golfo Dulce, Port Ingles, Port Mantas, Caldera, Culebra, Santa Elena, and Salinas. The only other port of any importance on the Caribbean Sea is the port of Matina.

Port Limon can be reached from New York with the steamers of the Panama Railroad Company or the Atlas Line. The former leave New York regularly every five days for Colon, at which latter point connection for Limon is made with the steamers of the Royal Mail Steamship Company, the entire trip being made in eight days at a cost of \$90 for first-class passage. The Atlas Line steamers leave New York once a week directly for Port Limon, the time being the same as that by the Panama Railroad Company Line, while the fare is only \$80 for first-class passage.

The United Fruit Company's steamers leave New Orleans regularly every Saturday for Port Limon, the time employed being five

days and the fare \$50. Another line of the same company plies between Boston and the Central American ports, fourteen days being usually required to make the trip to Port Limon.

From San Francisco the trip can be made either by the Pacific Mail Steamship Company Line or the Kosmos Line, both lines leaving the former port regularly every ten days, making the run to Puntarenas in about twenty-three days, the cost for first-class passage being \$120.

The capital of the country, San José, is best reached via Port Limon, from which port a railway runs via Cartago to San José. On the Pacific side the railway connecting Puntarenas with the capital is partially completed.

There are no less than 16 navigable rivers in the Republic, some of which are navigable for a considerable distance inland, the most important of these being the Rio San Juan and its tributaries, which are largely utilized for the transportation of the natural products, several small steamers as well as numerous small craft plying regularly between the coast and inland ports.

This river, which flows along the northern boundary of Costa Rica, communicates with the beautiful Lake Nicaragua, situated in the Republic of Nicaragua on the border of Costa Rica, navigable for large vessels and affording the means of communication for points along its shores.

#### POSTS AND TELEGRAPH.

During 1908, the postal service of the Republic was carried on through 73 post-offices with a mail movement of 5,891,636 pieces.

The telegraph system in 1907 had a total length of 1,207 English miles. Over these wires 521,131 messages were sent from 107 offices. Wireless telegraphy is also becoming an important factor in the development of interstate communication, the Government having established a station at Boca del Colorado for the transmission of government and public messages. The United Fruit Company have equipped a station at Port Limon for intercommunication with their other stations and for public business. This is said to be one of the best equipped and most efficient stations in Central America.

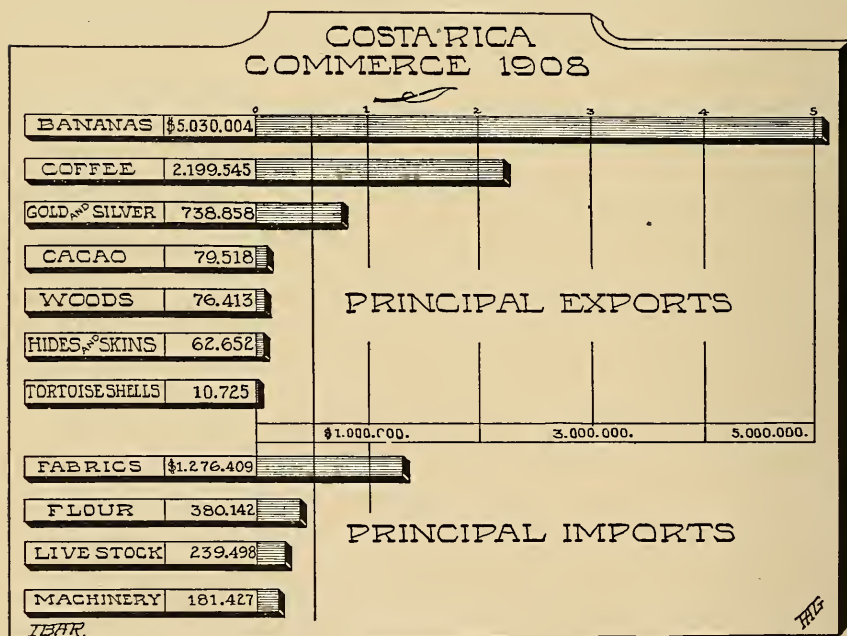
#### PUBLIC INSTRUCTION.

The matter of education and general improvement of the public school system of the Republic is receiving the serious consideration of the Government. At the close of the year 1908, the primary schools numbered 357, with an enrollment of 27,452 pupils and 887 teachers, and new schools have since been added and the corps of teachers increased to 934. This branch of public instruction carries an annual appropriation of \$325,000, the cost to the Government per pupil being

computed at \$12.09. Tentative arrangements have also been made looking to the establishment within the Republic of a Central American normal school, the plans for which have already been prepared and the course of instruction arranged. The other Central American Republics will be invited to cooperate in the project. The towns of Barba and Alajuela, respectively, have been chosen as sites for the two branches of the school.

For the purpose of encouraging industrial schools a decree, under date of July 16, 1908, provided for the payment of a monthly subsidy of \$232.50 to the municipality of the central canton of the Province of Alajuela for the founding and support of a school to give instruction in the manufacture of all kinds of woven fabrics.

To meet the increasing expense of maintaining the primary schools a law was passed on September 24, 1908, establishing a tax of 10 cents per liter on alcohol and other liquors sold in the national factory and its branches, the revenue thereby derived to go to a fund known as the "national educational fund."





# CUBA

Cuba, the largest of the Antilles, is geographically situated between  $19^{\circ} 40'$  and  $23^{\circ} 33'$  latitude north and  $74^{\circ}$  and  $85^{\circ}$  longitude west, in length over 730 miles, with an average width of 50 miles. It has an area of 45,883 square miles, exceeding the area of the State of Pennsylvania by more than 600 square miles, and a population of 2,048,980, equal to about 44 per square mile, almost double the population per square mile of the United States of America (23.2), being one of the most densely populated of the American Republics.

A number of irregular mountain chains cross the territory of Cuba in various directions, forming between them a number of extremely fertile and healthful plateaus and valleys, in which nearly all the products of the Tropics are successfully raised. The Republic is especially noted for the excellence of its tobacco and sugar, which constitute the most important articles of export.

## HISTORICAL SKETCH.

The island of Cuba was discovered by COLUMBUS on his first voyage of exploration, on October 28, 1492. He landed at what is now called the Bay of Nuevitas and took possession of the country in the name of the King of Spain. The country was called successively Juana, Santiago, and Ave Maria, finally regaining its original Indian name of Cuba. DIEGO VELASQUEZ was appointed governor of the island in the year 1511, and to him fell the task of subduing the aborigines, the warlike and savage Caribs and Nahacs. Cuba was important to the Spaniards as a strategical point. From the island numerous expeditions started for the mainland, among the most important being that of CORTEZ, which resulted in the conquest of Mexico. Later on, the vast mineral wealth of Mexico and Peru having been made known, Havana became the rendezvous for the treasure ships. From Havana they sailed under protection of the war vessels for Spain.

It was due to the importance of Havana that the French, Dutch, and British buccaneers during the sixteenth and seventeenth centuries attempted on several occasions to capture the port; while unsuccessful, they succeeded in more than one attempt in carrying off valuable booty.

When Spain was at war with Great Britain and France, in the year 1762, a strong British army was sent out to conquer Cuba. After a siege of two months, Havana surrendered to Lord ALBEMARLE on August 12, 1762. The British retained possession of the island

until the year following, when by the treaty concluded between the three powers Cuba was once more restored to the Spanish authorities on June 6, 1763.

Although the movement for independence was initiated in Cuba early in the nineteenth century, she was to suffer more and obtain her independence later than any of the other American Republics, the Spanish Government being determined to retain control of the Pearl of the Antilles. In none of the Spanish-American countries, perhaps, was the war for independence more fiercely contested than in Cuba, in spite of which such indefatigable patriots as JOSÉ MARTÍ, BARTOLOMÉ MASÓ, MAXIMO GOMEZ, and others continued the struggle, until at last the people of the United States of America were roused by the atrocities committed by the Spanish General WEYLER, and the intervention of the latter country resulted in the war with Spain in the year 1898. When, by the treaty of Paris, December 10, 1898, the war was ended, Cuba became free and independent, and TOMAS ESTRADA PALMA was inaugurated President of the Republic of Cuba on May 20, 1902. Thus the struggle for independence, which lasted eighty years, but which may be said to have taken definite form with the famous proclamation of the patriots on October 10, 1868, known as the "Declaration of Yara," was brought to a successful end.



SR. GENERAL JOSÉ MIGUEL GÓMEZ,  
PRESIDENT OF CUBA.

President ESTRADA PALMA resigned his office on September 28, 1906, and the United States of America temporarily intervened until new elections could be held. Gen. JOSÉ MIGUEL GOMEZ was elected President and ALFREDO ZAYAS Vice-President in December, 1908, and were formally inaugurated on January 28, 1909, when the Provisional Governor, CHARLES E. MAGOON, withdrew.

#### CONSTITUTION AND GOVERNMENT.

The constitution of the Republic of Cuba, proclaimed on February 21, 1901, provides for a republican, representative form of government, with the usual division into legislative, executive, and judicial branches.

The Senate and the House of Representatives, forming together the National Congress, are intrusted with the legislative power. The former consists of 24 and the latter of 64 members. Senators are elected indirectly for a term of eight years, at the rate of four Senators for each province, and the whole Senate is renewed by halves every four years. Representatives are elected by popular vote, every citizen over

21 years of age having the right of suffrage. They are elected for a term of four years, at the rate of 1 for every 25,000 inhabitants, and the House of Representatives is renewed by halves every two years.

The President of the Republic, assisted by a Cabinet of 8 Ministers or Secretaries of State, exercises the executive power. Cabinet Ministers are appointed by the President, but are responsible to Congress for their acts. The President and Vice-President are elected indirectly, in the same manner as are the Senators, by an electoral college chosen by the people for that purpose. They are elected for a term of four years, and may not serve more than two consecutive terms.

The judicial power of the country is vested in a National Supreme Court, 6 Superior Courts, 1 for each province, 36 courts of the First Instance, and a number of minor courts. The justices of the Supreme Court are appointed by the President of the Republic, with the advice and consent of the Senate.

#### INTERIOR GOVERNMENT.

Cuba is politically divided into six provinces, which are again divided into municipal districts. The administration of the province is in the hands of a Governor, assisted by a provincial council, both elected by popular vote for a term of four years, while the municipal districts are administered by a Mayor and a municipal council, likewise elected by popular vote.

The provinces of Cuba and their respective capitals are:

Province of—	Capital.
Pinar del Rio-----	Pinar del Rio.
Havana-----	Havana. <sup>a</sup>
Matanzas-----	Matanzas.
Santa Clara-----	Santa Clara.
Camaguey-----	Camaguey.
Oriente-----	Santiago de Cuba.
President-----	Gen. JOSÉ MIGUEL GOMEZ.
Vice-President-----	Sr. DON ALFREDO ZAYAS.
Secretary of State-----	Sr. DON JUSTO GARCÍA VÉLEZ.
Secretary of Justice-----	Sr. DR. LUIS OCTAVIO DIVIÑÓ.
Secretary of Government-----	Sr. DR. NICOLÁS ALBERDÍ.
Secretary of Promotion-----	Sr. DON MARCELINO DÍAZ DE VILLEGAS.
Secretary of Health and Charities-----	Sr. DR. MATIAS DUQUE.
Secretary of Public Instruction and Fine Arts-----	Sr. DR. RAMÓN MEZA.
Secretary of Public Works-----	Sr. DON BENITO LAGUERUELA.
Secretary of Agriculture, Commerce, and Labor-----	Sr. DON ORTELIO FOYO.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is \$15,000.

<sup>a</sup>Also capital of the Republic.

## CUBA IN 1908.

Progress and good will characterize the published utterances of the new Cuban Executive. President GOMEZ, on taking office, surrounded himself with able advisers and expressed his desire to carry forward the work of national advancement along lines of policy of proven value. His references to the administration of Hon. CHARLES E. MAGOON have been marked by an appreciation of the onerous nature of the task undertaken, and in a statement of the policy of the administration it is announced that the President will seek beneficial reforms and improvements, such as the establishment of agricultural banks, labor legislation, and the maintenance of proper highways. While the year 1908 showed a falling off in trade and customs receipts, as compared with the previous twelve months, the reported large crops of sugar and tobacco for the present season will offset the temporary loss.

The presidential election held on November 14, 1908, was in accordance with the provisions of the decree of April 1, 1908, and under the supervision of the central and provincial election boards.

## FINANCE.

The Cuban budget for 1908-9 estimated expenditures at \$34,220,-644.15. In this are included ordinary expenditures, \$24,285,303, and additions thereto, \$207,495; fixed charges, \$2,088,162, and additions thereto, \$501,660, to which sum of \$27,082,620 must be added \$7,137,-424.15, the amount of extraordinary expenditures by virtue of decrees of the Provisional Government.

For 1909-10, expenditures are estimated at \$33,800,000. As in the preceding year, expenditures are divided into ordinary and extraordinary. The ordinary expenditures are \$26,427,855.94, and extraordinary \$6,872,144.06, with \$500,000 additional for agriculture.

The financial condition of the island is considered fairly satisfactory; the balance on hand March 27, 1909, amounted to \$2,515,363, with outstanding obligations amounting to \$12,856,000, including credits authorized under preceding administrations. It is anticipated that the customs receipts will provide sufficient revenue to cover these obligations without recourse to the bond issue authorized by the Provisional Government.

In view of the fact that the revenue derived from imports will be sufficient to meet the service of the foreign debt, it is proposed to suspend the export duties on sugar, tobacco, and liquors and to enter into a new commercial treaty with the United States providing for a reduction of import duties on certain necessities of life and agricultural machinery. The total customs receipts at the ports of the

island during the year aggregated \$22,231,707.46 showing a decline of \$4,079,889.40 as compared with 1907.

American capital in the island represents a total investment of \$141,000,000, distributed as follows: Railways, \$34,000,000; sugar and tobacco, \$68,000,000; real estate, \$18,000,000; banks, \$5,000,000; agricultural industries (other than those specifically mentioned), \$4,000,000; mortgages, \$3,500,000; navigation companies, \$1,500,000; and miscellaneous investments, \$7,000,000. The English capital invested in the island amounts to nearly \$90,000,000, about \$5,000,000 of which is in steamships, \$5,000,000 in real estate, and the balance mostly in railway interests, aggregating nearly \$80,000,000.

#### COMMERCE.

Figures of the foreign trade for the calendar year 1908 showed total imports amounting to \$85,218,391, and exports to \$94,603,324, exclusive of specie. The countries participating in this trade in the order of their importance were: United States, imports \$41,576,980, exports, \$78,868,490; Great Britain, imports \$11,724,029, exports \$4,775,966; Germany, imports \$7,172,358, exports \$4,711,164; Spain imports \$7,454,933, exports \$958,207; other American countries, imports \$7,256,708, exports \$2,257,077; other European countries, imports \$3,548,662, exports \$978,084; and other countries, imports \$1,455,229, and exports \$652,339. The specie imports during the year amounted to \$1,150,376 and exports to \$4,245,767.

Tobacco and sugar comprised the bulk of Cuban exports, for which the United States is the principal market. The tobacco crop for 1908 was valued at \$42,321,306.92, and showed a slight decline as compared with 1907, the number of bales being 563,059. The value of tobacco exported is given as \$31,056,921.53, as compared with \$28,645,908.60 in 1907, the remaining \$11,264,385 representing home consumption. Of the exports, leaf tobacco amounted to \$18,354,420.21; cigars, \$12,275,040.96; cigarettes, \$295,883.98 and picadura or leaf cut, \$131,576.38.

The year 1908 showed a gain of  $1\frac{1}{4}$  per cent in exports of cigars from the port of Havana as compared with 1907. The United States, which had held first place in consumption of the article fell to second place, Great Britain going to first. The principal countries which received cigars from Cuba showed the following difference for the two years: Great Britain, (1908) 70,677,528, (1907) 56,699,274; United States, (1908) 47,550,742, (1907) 61,869,131; Germany, (1908) 24,183,131, (1907) 23,205,411; France, (1908) 11,418,782, (1907) 10,638,875; Canada, (1908) 7,084,020, (1907) 10,271,013, and Australia, (1908) 6,906,042, (1907) 4,261,173. The exports of leaf tobacco to the United States increased heavily, the total number of bales exported in 1908 being 65 per cent greater than in 1907. The six prin-

cipal countries receiving Havana pure leaf compared as follows: United States, 236,849 bales in 1908, as compared with 180,274 in 1907; Germany, 51,590, as compared with 6,945; Spain, 18,720, as compared with 2,950; Austria, 6,901, as compared with 2,930; Argentine Republic, 6,555, as compared with 1,671, and Canada, 3,563, as compared with 3,361.

The total output of sugar in the Republic for 1908 was placed at nearly 1,000,000 tons, and up to March 1, 1909, statistics of exportation and stock of sugar in the producing season of 1909 showed a total of 593,848 tons, indicating a crop slightly in excess of 1,400,000 tons.

An advancing trade in the fruits of the country for the year is reported, shipments of pineapples and oranges to the New York mar-



A READER IN A CIGAR FACTORY IN CUBA.

ket being particularly noteworthy. The larger part of the cedar and mahogany exported from the island also goes to the same market.

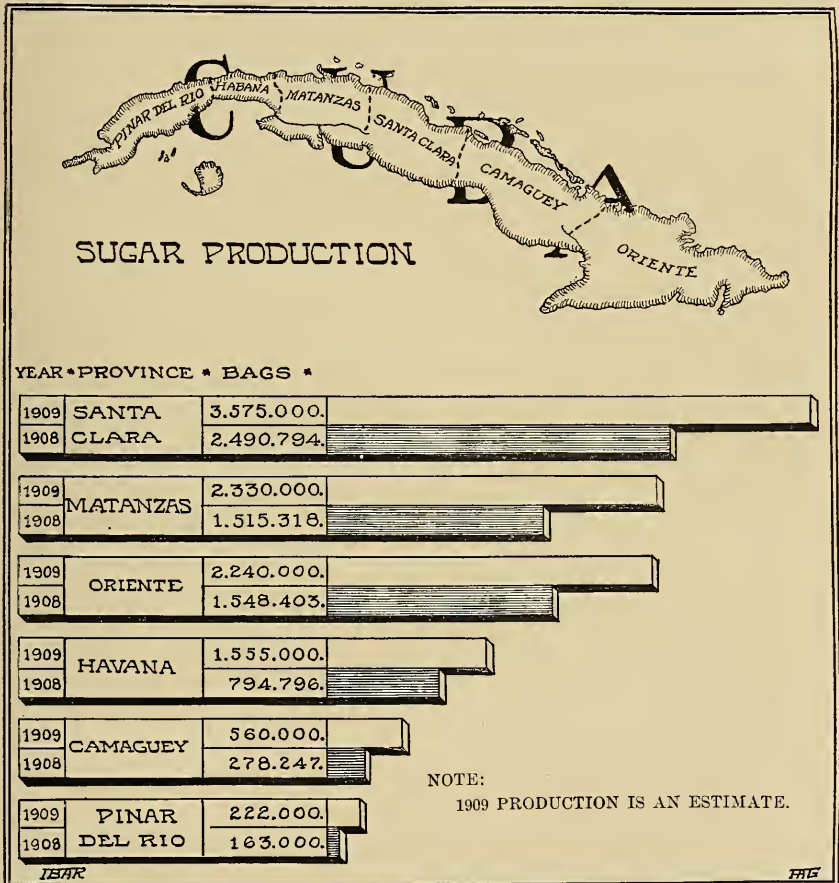
Speaking generally of the agricultural exports of the island, they show the following average annual values: Raw and refined sugar, \$38,000,000; leaf tobacco, \$12,000,000; fruits, \$2,000,000; grains and vegetables, \$600,000. Of the exports the United States takes 84.9 per cent; England, 6.2; Germany, 3.7; France, 1.2; other American countries, 1.8; Spain, 1, and other European and other countries a smaller ratio.

#### PRODUCTION AND INDUSTRIES.

The two great staples of Cuba's agricultural production, sugar and tobacco, showed satisfactory returns for 1908, with a favorable outlook for the ensuing season.

The tobacco-producing provinces and their output in bales for the year were as follows: Vuelta Abajo, 261,095; Semivuelta, 25,024; Partidos, 64,360; Matanzas, 445; Remedios, 194,929; Puerto Principe, 5,228; Santiago de Cuba, 12,878, a total of 563,959 bales, as compared with 440,745 in 1907.

The sugar crop for 1908 was placed at 6,790,851 bags and the 1909 crop at 10,082,500 bags. Cane growing covers  $7\frac{1}{2}$  per cent of the total area of the 6 provinces of Pinar del Rio, Havana, Matanzas, Santa



Clara, Camaguey, and Oriente, while of the 186 plantations in operation 72 are owned by Cubans, 38 by citizens of the United States, and 76 by English, French, and Spanish proprietors. Santa Clara has 70 working plantations; Matanzas, 56; Oriente, 27; Havana, 27; Pinar del Rio, 7, and Camaguey, 5. The mills of the island produce annually from 1,000,000 to 1,500,000 tons of sugar, 4,139,052 gallons of molasses of the first class and 39,765,326 of the second, 321,140 gallons of alcohol, and 1,763,810 gallons of aguardiente. Sugar refining

is confined practically to Cardenas, where there are three refineries. There are other small plants for local consumption though of no importance commercially.

The orange crop for 1908 was the largest in the history of the country, reaching an output of nearly half a million crates, while shipments of pineapples aggregated approximately 1,000,000 crates, nearly all of which went to New York. The value of pineapples shipped in 1908 was placed at \$904,117, and of this amount the United States received \$903,540, as compared with 1907 shipments which aggregated \$660,873, of which \$658,870 went to the United States.

The cultivation of cacao in the island during the fiscal year 1907-8 was carried forward on 1,137 plantations with 1,960,246 trees, as com-



THE NEW PRODUCE EXCHANGE BUILDING IN THE CITY OF HAVANA—IT COST \$600,000 GOLD AND WAS OPENED IN MARCH, 1909.

pared with 745 plantations and 1,860,300 trees in 1906-7. The production declined, however, from 9,380,900 pounds to 6,023,700 pounds by reason of lack of rain, although when this crop is compared with that of 1902, which amounted to 3,122,600 pounds, the growing importance of this industry is apparent. Exports during the last six months of 1907 represented a value of \$477,000, over half of which was shipped to the United States, France, Spain, and Germany taking 983,759, 277,346, and 241,206 pounds, respectively. The quantity sent to Great Britain shows a steady decrease. Experimental sowings have been made with seeds from Guayaquil, Trinidad, and San Carlos de Costa Rica, the latter giving the best results.

The consumption of sisal hemp in Cuba is about 5,000,000 pounds per annum and of Manila hemp about 2,500,000 pounds, all of which



is imported. In addition about 500,000 pounds of ixtle, jute, and other similar fibers are supplied by other countries.

Special legislation was enacted during the year providing for the importation of cattle for breeding purposes, and by a decree of January 21, 1908, article 7 of the law of September 15, 1902, prohibiting the exportation of cattle from Cuba was repealed. The number of cattle in the island increased from 999,862 head in 1902 to 2,579,492 in 1906; and the number of horses in the same period increased 139.65 per cent; mules, 65.85 per cent; and asses, 43.36 per cent.

Mineral exploitation for 1908 is represented by iron shipments of 570,310 tons, valued at \$1,726,698; manganese, 1,470 tons, valued at \$13,489; copper, 45,381 tons, valued at \$469,540; and smaller shipments of gold, petroleum, and asphalt.

The acquisition by the Bethlehem Steel Company of the United States of an important iron-ore deposit located near Santiago, Cuba, has been reported as a feature in the development of the mineral resources of the Republic. The ore beds have been measured up by engineers as embracing 75,000,000 tons, a peculiarity of the deposit consisting in the fact that it contains 2 per cent nickel and 1 per cent chromium. The tract covers an area of 875 acres and lies about 12 miles east of Santiago. Another deposit of even greater extent has been located in the province of Oriente, 27,000 acres being the reported area with 600,000,000 tons. It is regarded by experts as the most important discovery of iron-ore deposits made within twenty years.

Valuable deposits of salt have been reported in the province of Matanzas which it is expected will figure in the future economic development of the island. At present the annual importations of this article aggregate about 280,000 sacks. The salt taken from the Matanzas mine is pure product, and it is hoped ultimately to increase the output sufficiently to meet the needs of the home market.

#### COMMUNICATIONS.

The extent of railways in the Republic is 2,329 miles and of highways 631 miles with 140 bridges, 57 of which are steel and 12 concrete. A subsidy of \$1,500,000 has been granted for the purpose of extending the Cuba railway for a distance of 155 miles. The annual report of this corporation for the year ended June 30, 1908, showed gross earnings of \$2,039,467.95 and operating expenses of \$1,318,180.36, the net earnings figuring for \$721,287.59. The cash surplus at the close of the year was reported as \$1,093,286.66.

The expenditures of the Provisional Government in the construction of macadamized roads was stated by President GOMEZ, in a recently delivered message, to have been \$9,448,170.52. The estimated cost of completing the 300 miles of road now under construction is placed at \$1,500,000.

## STEAMSHIPS AND WATERWAYS.

The island of Cuba is within easy reach of the United States, and numerous steamship lines ply regularly between the various ports of the two countries, as well as between Havana and European ports.

The principal port is Havana, but a number of other ports and bays afford excellent anchorage and shelter for ocean-going vessels, among which Matanzas, Cienfuegos, Santiago de Cuba, and Guantanamo are the most important.



THE TOURING CAR IN CUBA.

Three steamship lines have regular sailings from New York for Havana and other Cuban ports, viz: New York and Cuban Mail Steamship Company, Ward Line, twice every week; the Munson Steamship Company, fortnightly, and the *Compañía Transatlántica*, once every month, making the run in from four to five days, first-class passage being from \$30 to \$60. The Munson Steamship Company has steamers leaving Mobile, Alabama, fortnightly, while the Southern Pacific Company maintains a regular service between New

Orleans and Havana, sailing every five days, and making the run in one day. The Peninsular and Occidental Steamship Company's steamers leave Port Tampa and Key West three times a week for Havana and the Commercial Union Navigation Company's steamers sail every alternate Friday from Galveston.

The Boston-Cuba Steamship Company is scheduled to inaugurate a service in August, 1909; and a possible shipping route discussed is that from Havana to Savannah, Georgia, a line which would afford quick communication with the manufacturing South and a speedy transit of passengers and freight to and from populous districts south and north of the Ohio River. The cargo for Cuba originating in Georgia and the eastern South is already of very large volume and is increasing steadily.

Although there are a number of rivers in Cuba, some of them with a considerable volume of water, they are usually too short and swift to be of any service to navigation. The largest of these, the River Cauto, is navigable for a distance of about 50 miles for light-draft vessels only, while the Sagua la Grande is navigable for about 20 miles, and several of the other streams are navigable only for a few miles inland.

The convention pertaining to the exchange of postal money orders between the Republic of Cuba and the United States became effective on July 3, 1908, and a series of regulations in regard to consular fees were put in effect on January 1, 1909.

#### POSTS AND TELEGRAPHS.

There are 418 post-offices and 147 telegraph offices, with 5,065 miles of line in operation.

The following wireless stations have been completed and accepted by the Cuban Government: Pinar del Rio, Santa Clara, Morro Castle, Havana, and Nueva Gerona, Isle of Pines. Stations at Camaguey, Baraçoá, Santiago de Cuba, Bayamo, Havana, Guantanamo, and Cape San Antonio are also completed and open for government and public service.

According to the official record of 1908, the country's population numbered 2,048,980, while on the registration lists the number of foreigners entitled to vote for President was given as 6,954, nearly two-thirds of whom are residents of Habana.

During the year a special commission was named to proceed to Europe for the purpose of making a study of immigration and, if possible, to devise means to divert the flow of Old World emigrants toward the Republic. To better facilitate this, the Department of the Treasury on April 9, 1908, issued a circular modifying the immigration laws.

General health conditions in Havana for 1908 showed a marked improvement, the number of deaths reported for 1907 being 6,708, as

compared with 5,994 in 1908. The public schools are systematically inspected as to sanitary condition, and over 6,000 persons were vaccinated as a preventive against smallpox. New regulations governing the practice of pharmacy are also being compiled.

Many public works were contracted for, notably the system of waterworks at Cienfuegos, and a new wharf at Havana, while an appropriation of \$100,000 was made for the preliminary work in connection with the work of dredging the harbor of Sagua. It is estimated that the total cost of this work will reach \$2,000,000, the project including a 30-foot channel to allow the free entrance and exit of heavily laden vessels.



GOVERNMENT HOSPITAL.

The President of the Republic, in his message to the National Congress, delivered on April 21, 1909, proposed public improvements at an estimated cost of \$6,500,000. The items covered in the plan include a Presidential Palace, \$1,300,000; congressional building, \$1,400,000; a Palace of Justice, \$600,000; buildings for the Departments of State, Justice, Interior, Public Instruction, Public Works and Sanitation, at a cost of \$400,000 each; a provincial institute and school, \$300,000; a jail, \$300,000; and an appropriation of \$200,000 for the purpose of making the building at present devoted to the Department of Education available for the Department of Posts and Telegraphs.

# DOMINICAN REPUBLIC

The Dominican Republic, occupying the eastern and larger half of the island of Santo Domingo or Haiti, has a total area of 18,045 square miles and a population of 610,000 inhabitants. Its area is thus equal to that of the States of Maryland, Connecticut, and Rhode Island, while its density of population is 34 per square mile, or one-half more than that of the United States (23.2 per square mile).

The island is the second largest of the Antilles lying between Cuba and Porto Rico, separated from the former by the Windward Passage and by Mona Passage from the latter. Its territory is divided between the Dominican Republic and the Republic of Haiti.

Its topography shows numerous elevations forming four almost parallel mountain ranges which considerably modify the otherwise tropical climate, and together with the sea breezes give Santa Domingo a most delightful and pleasant climate. Mount Tina, 10,300 feet above sea level, is the highest peak on the island and in the West Indies.

Nearly all the fruits of the Tropics and many of the Temperate Zone are successfully grown on the island. Cacao, sugar, coffee, bananas, and other fruits, cabinet, structural, and dye woods, among the latter the well-known divi-divi, are largely exported.

## HISTORICAL SKETCH.

COLUMBUS on his first voyage having discovered Guanahani and Cuba, first sighted Santo Domingo on December 6, 1492, and taking possession of the island in the name of the King of Spain called it "La Isla Española" or Hispañola, because of its similarity to certain regions of Spain.

The territory now forming the Dominican Republic was then occupied by an inoffensive, peaceable race of Indians who had divided the island into five kingdoms, and whom the Spaniards easily subdued and enslaved.

Santo Domingo for more than a century formed the base of operations for the Spanish explorers and conquistadores, and the capital of the present Dominican Republic may justly lay claim to have been the metropolis of the vast colonial empire of Spain.

The hard work and cruel treatment to which the Indians were subjected caused them to die in large numbers, and the introduction of slaves from Africa was begun as early as 1517 when 4,000 were introduced in one year.

During the sixteenth and seventeenth centuries French, Dutch, and British buccaneers established themselves in the West Indies, first on St. Christopher and afterwards on Tortuga, lying a few miles off the northwest coast of what is now the Republic of Haiti. In 1630 these buccaneers, mostly French, invaded the adjoining island and planted a colony of such importance on Santo Domingo that the protection of the home Government was sought and obtained. A period of constant strife ensued between the French and settlers, until by the treaty of Ryswick, in 1697, France obtained possession of the western half of the island, and by the treaty of Basle, in 1795, the entire island was ceded to that country.

In the year 1809, Spain being at war with France, the combined Spanish and British forces captured the island on July 11 and Spanish rule was once more established.

In 1821 the inhabitants of the Spanish part of the island declared their independence of Spain and desired their country's incorporation as a State of Greater Colombia, hoping to secure the assistance of SIMON BOLIVAR. Colombia could not assist the new State and so JEAN PIERRE BOYER, President of Haiti, in 1822 was able to extend his government over the whole island. The Haitian dominion lasted until the year 1844 when, on February 27, the people rose in arms against the Government and in 1846 again established an independent State.

In the year 1861, through constant fear of foreign invasion, the Republic appealed to Spain for protection, and on March 18, 1861, was formally annexed to that country. This rule, however, soon became intolerable and a revolution, initiated at Capotillo on August 16, 1863, resulted in the restoration of the Dominican Republic, the Spanish Crown relinquishing all claim to the country on May 1, 1865.

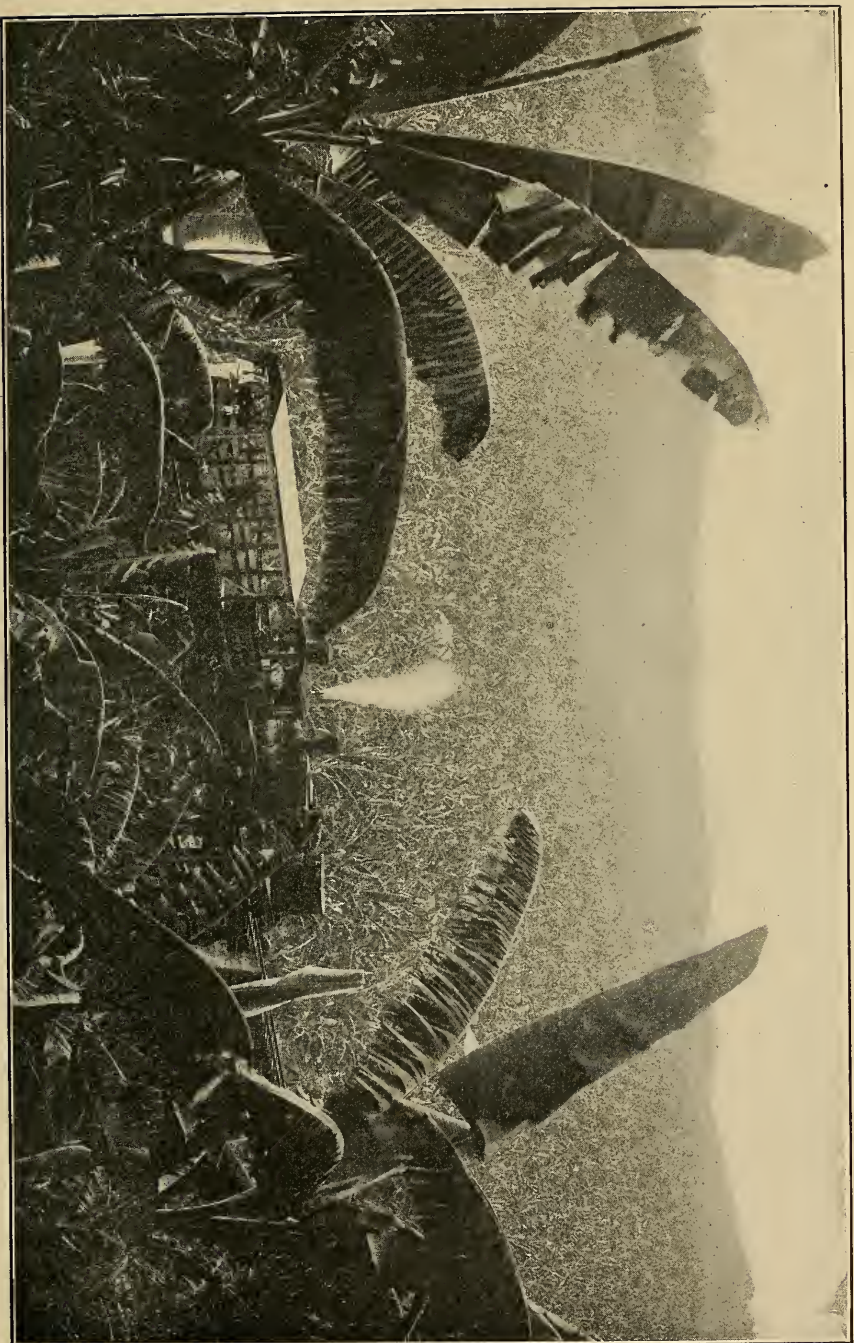
Genl. RAMÓN CÁCERES, the present incumbent of the Presidency, was inaugurated on July 1, 1908, for a term of four years.



GENERAL RAMÓN CÁCERES, PRESIDENT  
OF THE DOMINICAN REPUBLIC.

#### CONSTITUTION AND GOVERNMENT.

The present constitution of the Dominican Republic went into effect on April 1, 1908. It provides for a republican, democratic, and representative form of government, divided into three branches, legislative, executive, and judicial. The National Assembly is composed of two branches, the Senate and Chamber of Deputies. Senators are elected one for each province or district, 12 in all, by indirect vote for a term of six years. As in the United States, the Senate is renewed one-third every two years. Deputies are elected in propor-



A BANANA PLANTATION IN THE DOMINICAN REPUBLIC.

tion to the population by direct vote for a term of four years, the Chamber being renewed by half every two years.

In the President, assisted by a Cabinet, is vested the executive authority of the Republic. He is elected for a term of six years by indirect vote.

The judiciary is composed of a Supreme Court sitting at Santo Domingo, two Courts of Appeals located at the capital and Santiago respectively, and lesser tribunals throughout the Republic, courts of first instance, and in the various municipalities.

#### INTERIOR GOVERNMENT.

For administrative purposes the Dominican Republic is divided into 6 provinces and 6 districts, which are subdivided into communes, cantons, and sections. The provinces are administered by a Governor, appointed by the President of the Republic for a term of four years, as are also the chief executive officers of the other political divisions. A Municipal Board, elected by direct vote, represents the people in the various municipalities, who regulate the budget of the said districts, vote upon improvements, and in general cooperate with the executive head of the district.

The following are the provinces and districts, with their respective capitals:

Province of—	Capital.
Santo Domingo.....	Santo Domingo. <sup>a</sup>
Seybo.....	Santa Cruz del Seybo.
Azua.....	Azua.
Santiago.....	Santiago de los Caballeros.
Españillat.....	Moca.
Le Vega.....	Concepcion de la Vega.
District of—	
San Pedro Macoris.....	San Pedro Macoris.
Barahona.....	Barahona.
Samana.....	Santa Barbara de Samana.
Pacificador.....	San Francisco de Macoris.
Puerto Plata.....	San Felipe de Puerto Plata.
Monte Cristi.....	San Fernando de Monte Cristi.
President.....	Gen. RAMON CÁ CERES.
Minister of Interior and Police.....	SEÑOR MIGUEL A. ROMÁN, HIJO.
Minister of Foreign Affairs.....	JOSÉ MARIA CABRAL Y BAEZ.
Minister of the Treasury and Commerce.....	FEDERICO VELASQUEZ HERNANDEZ.
Minister of War and Marine.....	MANUEL GARCIA.
Minister of Justice and Public Instruction.....	EMILIO C. JOUBERT.
Minister of Agriculture and Immigration.....	RICARDO LIMARDO.
Minister of Fomento and Communication.....	EMILIO TEJERA BONETTI.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The President is allowed a salary of \$7,200 per annum.

<sup>a</sup> Also capital of the Republic.



## THE DOMINICAN REPUBLIC IN 1908.

The prosperity prevailing in the Dominican Republic at the close of 1908 was amply demonstrated by the trade volume of the year in which a gain of nearly \$2,000,000 was recorded as compared with 1907. This was entirely on the side of exports. Cacao, sugar, and coffee which, with tobacco and bananas, constitute over 94 per cent of the total exports, showed notable increases, shipments of cacao being reported as nearly double those of the year previous. The sum of \$1,529,729.05 was deposited in New York for the service of the foreign debt and a generally favorable condition was noted in all lines of progress.

Not only is the Dominican Government formulating extensive irrigation plans for the adequate cultivation of its land areas, but has also under consideration the construction of such railways as will place the products of the country within reach of the coast, special funds from the government revenues being set aside for this purpose. The recent establishment of an Academy of Fine Arts in the capital of the Republic is an earnest of the stimulus given by the Government to higher education.

The declaration of amnesty for political offenders resulted in the return of many citizens to peaceful occupations in the country, thus assisting in the development of the resources of the Republic.

On July 1, 1908, General CÁ CERES, who had been reelected President of the Dominican Republic under the new Constitution, formally took the oath of office as the Executive in the presence of members of the Senate and Chamber of Deputies.

## FOREIGN AFFAIRS.

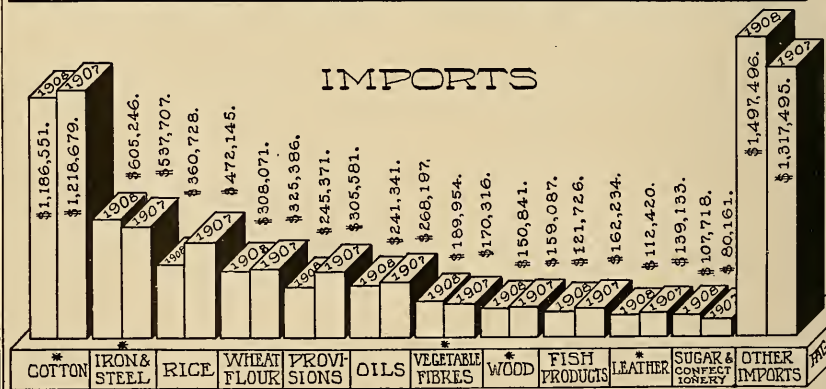
At the beginning of 1909 the Republic was at peace with all foreign nations, maintaining with them amicable relations, cemented by the strongest bonds of cordiality and harmony. In order that the foreign relations of the country might be productive of the greatest good, the President recommends the extensive use of the consular service in disseminating useful information concerning the commercial, industrial, and natural resources of the country.

At the present time the diplomatic service of the Dominican Republic consists of ten legations, four of which are now filled—the United States, Haiti, Cuba, and Germany. It has been recommended that France, Germany, and Italy be combined under the direction of a single minister and a chargé d'affaires appointed near the Government of Spain. Owing to the increasing commercial relations with Panama and Central America, the legation at Caracas, Venezuela, may be transferred to Panama and the legation at Guate-

**DOMINICAN REPUBLIC  
COMMERCE  
- 1908 AND 1907 -  
EXPORTS**



**IMPORTS**



1288

\* Manufactured product.

mala be entrusted with the representation of the Dominican Republic for all the Republics of Central America, and a legation established at Bogota, Colombia. The consular service of the Republic consists of 25 consuls-general and 151 consular representatives of lower grades.

#### FINANCE.

Financial conditions are in every way prosperous, and ample capital is available for the exploitation of the public works undertaken by the Government. On January 1, 1909, the Republic was carrying in New York a credit balance of \$6,616,850 in bonds and \$947,973 in cash.

The revenues of the Republic in 1908 amounted to \$4,175,033.24, of which sum \$3,232,889.93 represented the amount of customs receipts, from which collections the receivership transmitted for deposit with the Morton Trust Company, in New York, the fiscal agent and designated depositary of the Dominican Loan, the sum of \$1,529,729.05 to apply to the service of the debt. Of this sum \$1,200,000 was for payment of interest and amortization of the 5 per cent customs administration sinking-fund gold bonds, as authorized by the terms of the American-Dominican convention.

The Dominican National Congress has estimated the public receipts and expenditures of the Republic for the fiscal year 1908-9 at \$3,984,300. From customs it is estimated that \$3,239,200 will be received; from internal taxes, \$388,800; communication, \$44,000; consular dues, \$14,500; stamp tax, \$60,000; and from certain specified state properties, \$237,800.

These receipts are distributed among the various administrative departments, the sum of \$1,808,708 being assigned to the Department of Treasury and Commerce, of which \$30,000 is to be expended in taking a census of the Republic. The sum of \$76,800 is also appropriated for extending existing railway construction and \$75,000 for irrigation works in Monte Cristi Province. The building of roads, the construction and repair of light-houses, and other public improvements were authorized.

#### COMMERCE.

Predictions heretofore made as to the betterment of trade conditions in the Republic have been fully justified. The trade volume for the year was \$14,613,807, as compared with \$12,794,657 in 1907. Exports amounted to \$9,486,344 and imports to \$5,127,463. The gain indicated for the total commerce was entirely on the side of exports, imports showing an inconsiderable decline.

The United States, Germany, and France, as in 1907, purchased the bulk of Dominican exports, while the same countries, with Great

Britain, were the principal sources of imports. These countries figured in the order of values as follows: United States, exports \$4,212,449, imports \$2,891,722; Germany, exports \$4,220,289, imports \$868,230; France, exports \$907,898, imports \$212,002; Great Britain, imports \$788,621; and other countries, exports \$145,708, imports \$366,888.

The leading article of export was cacao, valued at \$4,269,047 and amounting to 41,903,470 pounds, of which over two-thirds went to Germany, the remainder being equally divided between the United States and France. The yield was nearly double that of the preceding year.



STREET SCENE IN SANTO DOMINGO, DOMINICAN REPUBLIC

Next in point of value is sugar, amounting to 69,703 tons and valued at \$3,092,429; tobacco, 18,665,594 pounds, valued at \$1,009,608; coffee to the value of \$325,153, of which France took 1,845,572 pounds and Germany 1,546,528 pounds. Banana shipments amounted to 454,010 bunches, valued at \$234,002, a decline of \$85,498 as compared with 1907. The five articles mentioned constitute somewhat more than 94 per cent of the exports of the country, all of which, with the exception of tobacco and bananas, showed increased values for the year.

Other items shipped in small consignments were animals, dyes, cocoanuts, copra, gums, resins, hides and skins, honey, vegetable fibers, wax, and woods, to a total value of \$556,105.

On the import list cotton manufactures occupied first place, being valued at \$1,186,551, of which the United States and Great Britain furnished \$504,646 and \$466,031, respectively, while of the next ranking item, iron and steel manufactures, valued at \$605,246, the United States supplied about 64 per cent, or \$386,994, a slight advance over 1907, though the greatest gain in this classification was made by Great Britain. Steel rails, barbed wire, machinery, and galvanized roofing formed the bulk of the imports of this class.

Rice, which forms a staple article of diet in the Republic, was imported to the amount of 16,221,141 pounds, valued at \$360,728, of which 94.5 per cent was received from Germany, a slight decline in the total being noted in comparison with the preceding year. Flour receipts, exclusively from the United States, declined from 66,460 barrels to 56,115, a corresponding loss in value being recorded. Other items covering mainly foodstuffs, leather, sacking, and oils showed slight fluctuations as compared with 1907, but in no case exceeded \$250,000 in value.

The natural market for the products of the Dominican Republic is the United States, and that country is also the main source of supply for the merchandise purchased abroad.

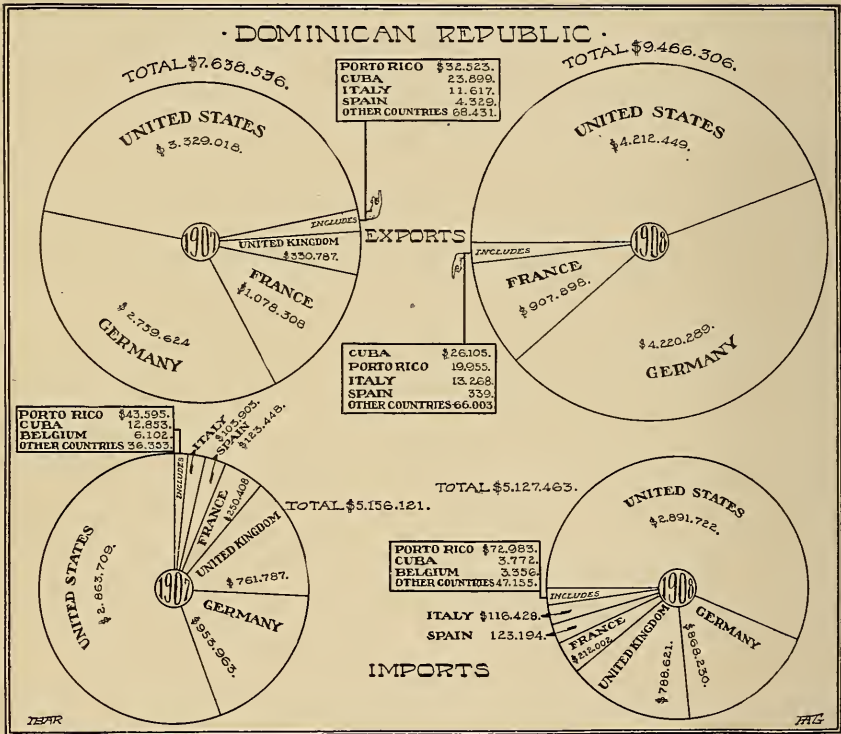
#### PRODUCTION AND INDUSTRIES.

The Government of the Dominican Republic is thoroughly alive to the importance of encouraging and developing the live stock and agricultural industries of the country, and proposes to assist as far as practicable in the introduction of new and scientific methods, the importation of brood animals, and the selection of the best seeds and plants for purposes of propagation in the various branches of agriculture. A careful investigation will be made of the conditions under which these industries may best be fostered to the end that the resources of the Republic may be developed to their fullest extent. The Department of Agriculture and Immigration has under consideration the establishing of a Bureau of Cultivation to act in cooperation with the agricultural schools and experiment stations of the Republic for the purpose of increasing the quality and quantity of the agricultural productions of the country. The leading crops are cacao, sugar, tobacco, coffee, and bananas in the order named.

The implements used by the Dominican farmer in planting and harvesting his crops are practically the same as were used on the island one hundred years ago. Improved agricultural and farm machinery are at present being introduced, and its use is urged by the Government.

During the last 10 years the Dominican Republic has exported cabinet and construction woods, mahogany, *lignum-vitæ*, satinwood,

etc., to the value of considerably over half a million dollars. On the other hand it has imported, during the same period, practically all of the lumber used for building purposes, costing in round numbers about \$2,000,000. This condition exists in spite of the fact that there are on the island great forests of excellent building woods. These include many varieties of great economic value, but the one which is best known to the lumberman and which probably exists in the largest quantity is the yellow pine. It has been variously estimated that there are from 1,000,000 to 1,500,000 acres of merchantable pine in the Republic.



This pine is very rich in resin. One of the varieties which goes by the local name of "suaba" is so saturated with resin that it is used by the country people for torches. Pieces of wood may be lighted with an ordinary match and burn freely. Other gums and resins are found in fairly large quantities, some of which produce a good grade of rubber. The Guayacan resin is found in certain districts in the interior and also a gum which in burning produces a smoke similar to incense.

As a special and important branch of the Department of Agriculture the stock-raising industry of the country receives particular

attention. Apiculture also is carefully fostered. Demonstrators are detailed by the Government to show apiculturists the best methods of producing and conserving bees and advise farmers to engage in that industry.

The steady onward movement of the country is evidenced in the government propaganda with reference to the contemplated construction of a series of irrigation canals at a cost of \$500,000, for the purpose of reclaiming a large tract of fertile land extending from the territory watered by the Caño del Estero on the south, northward to Monte Cristi Bay, and from the Yaque westward to Manzanilla Bay. The land is comparatively level and could easily be put in proper condition at moderate expense.



CENTRAL PARK, LA VEGA, DOMINICAN REPUBLIC.

Veins of auriferous quartz are found all along the central mountain claim, and alluvial gold is found in numerous places in the north. Copper is next in importance on account of the quantities in which it is found. Iron is found in immense quantities in several sections of the country and coal deposits abound in the extensive valley lying between the central range, or the Gran Cordillera and the Cordillera Septentrional, or Monte Cristi chain, those of the Pacificador district being the best known.

The petroleum belt measures over 190 square miles in area, oil being found in abundance in the Province of Azua.

Silver has been obtained in a very pure state from the Tanci mine in the Puerto Plata municipality and deposits of this metal are found in other sections of the country, as well as deposits of platinum, quicksilver, and tin. Large salt deposits also exist in the mountains

west of Neyba, the salt being perfectly pure, and the deposits give evidence of containing salt in inexhaustible quantities. At Caldera Bay salt is obtained from sea water by solar evaporation.

#### RAILWAY AND STEAMSHIP LINES.

The railway mileage of the Republic has an extent of 150 miles approximately.

A law of the Dominican Government provides that 30 per cent of the internal revenues be applied to the payment of interest on capital invested in the building of railroads, whether by private corporations or borrowed by the Government. It further provides that interest may be paid up to 6 per cent; that a bonus of \$2,000 be allowed for each kilometer constructed and that this portion of the revenues shall not be used for any other purpose.

The Dominican Central Railway, which formerly belonged to an American company, became, by virtue of a contract made by the Government in February, 1908, the property of the Republic. This road connects the two important cities of Puerto Plata and Santiago and has a length of 42 miles, 28 of which run through broken and mountainous lands. Traffic over this railway in 1908 increased 12.4 per cent as compared with 1907 and the receipts of the former year were 92 per cent greater than those of the latter, notwithstanding the fact that all of the construction material for the Santiago to Moca railway was carried over the line free of charge. The increase in cacao and coffee transported over this road in 1908, as compared with 1907, was 144.3 per cent and 110.7 per cent, respectively, while tobacco decreased 14.1 per cent.

The Santiago to Moca Railway, which may be considered an extension of the Puerto Plata to Santiago Railway, runs from Santiago to the Moca River, a distance of 16 miles.

It is proposed to construct a road from Seybo to La Romana, an appropriation of 30 per cent of the internal revenues having been made for that purpose.

The Samana to Santiago Railway belongs to a private company. The country through which it passes has been greatly developed since the construction of the line. A branch road is being built to Salcedo, from whence it will be continued to Moca.

The line from Sanchez, on Samana Bay, to La Vega, a distance of 82 miles, with a 9-mile branch from Baird station to San Francisco de Macoris, is owned by a Scotch capitalist.

The Dominican Republic has a number of splendid bays and inlets, forming excellent natural harbors and affording anchorage and shelter for the largest ocean-going vessels. The principal ports are: Puerto Plata, Sanchez, Santo Domingo, Macoris, Samana,



Monte Cristi, and Barahona. The magnificent bay of Samana, also called Golfo de las Flechas, is 40 miles in length, with an average width of 15 miles, and is fully protected from the winds and storms and is one of the finest natural harbors of the world. The Bay of Neiba is 15 miles long, with an average width of 10 miles, and likewise affords safe anchorage for the largest ocean-going ships, as do also the bays of Ocoa and Manzanillo, and several others. Santo Domingo, the capital of the Republic, is situated at the mouth of the Ozama River, which is navigable for a considerable distance inland, as are also the rivers Yaque, Yaque del Sur, Yuna, Iguamo, and several others, some of them, however, only for vessels of light draft.

The Clyde Steamship Company maintains a line of steamships running from New York to the ports of Santo Domingo, Monte Cristi, Puerto Plata, Samana, Sanchez, Macoris, and Azua, sailing every second week from New York. The time and fare to the various ports is as follows:

	Time.	Fare.		Time.	Fare.
	<i>Days.</i>			<i>Days.</i>	
Santo Domingo.....	8	\$60	Monte Cristi .....	10	\$60
Azua .....	9	60	Macoris .....	11	70
Samana.....	9	60	Sanchez.....	11	70
Puerto Plata.....	10	70	Barahona.....	12	75

Total entries of vessels at the various ports of the Republic during 1908 numbered 206 sailing and 546 steamships, while clearances were 201 and 511, respectively. Tonnage entries and clearances were 849,687 and 781,169 tons, respectively. Ships of American registry bringing cargo to the Republic brought 57 per cent of all the imports, or to the amount of \$2,920,999, increasing their tonnage over 1907, while those of German registry, though continuing in second place, transported but 28 per cent, or \$1,452,158, and British bottoms increased their carrying from \$106,599 to \$208,530.

The major portion of the exports were carried by vessels of American registry, 38 per cent, or \$3,634,394, being thus classified, German ships ranking next with \$2,630,985, or 27.5 per cent. Norwegian and French vessels increased their export tonnage, and the remainder of the export trade was handled by British, Dutch, Cuban, and Dominican vessels.

In 1908 the Department of Public Works estimated that \$300,000 would be needed for the improvement of the ports of the Republic. In June of the same year the work of removing the bar from the mouth of the river at the port of Santo Domingo was begun, and by July, 1908, the minimum depth had been increased from 7 to 14½ feet, at a cost of \$40,000. The Department of Public Works is contemplating the improvement of other ports of the Republic.

Work was commenced on the highway from the capital of the Republic to San Cristobal and is being pushed to conclusion as rapidly as possible.

#### POSTS AND TELEGRAPHS.

The receipts from the postal service in 1908 were \$25,547.96, against \$23,999 in the preceding year.

The Government has signified its adherence to the postal convention of Rome and many new offices were established for the furtherance of international communication.

The national telegraph and telephone system is satisfactory, both in organization and service, the year's receipts being \$17,524.23. The

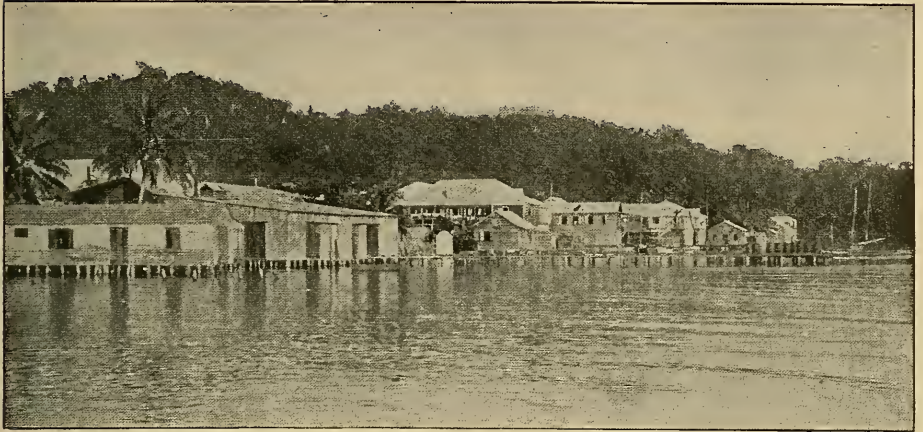


PUERTO PLATA, LOOKING TOWARD THE SEA.

Government has contracted with the United Wireless Telegraph Company for the installation of the De Forrest system of wireless telegraph stations in the Republic. The first station is to be erected in the capital at a cost of \$8,450, and smaller stations at other points at a cost not to exceed \$2,765 each. When the chain is complete communication can be rapidly effected between all the surrounding islands.

The Government recognizes the advisability and need of securing desirable immigration into the Republic, and is prepared to offer every inducement to immigrants to colonize the country. Foreigners coming into the country for the purpose of legitimate investment are given absolutely the same rights as Dominicans, with the exception that they are not granted special concessions or privileges.

The matter of public instruction receives the particular attention of the Government. In accordance with the provisions of the budget the Academy of Drawing, Painting, and Sculpture was established in the capital in December, 1908. This institution, for which \$3,000 was appropriated, is under the control of the Departments of State, Justice, and Public Instruction. The academy is open to both sexes and makes no charge for tuition. A graded course of instruction



BAY OF SAMANA, SANTO DOMINGO.

has been adopted, covering a period of four years, and provisions are made for both day and night classes.

A new sanitary law was promulgated during the year, and the departmental authorities empowered to import, free of duty, such articles of public utility as are designed for the services of hygiene and sanitation, instruction, and general development.

Among the notable public works undertaken during the year are the Monte Cristi irrigation project, the railroad from Santiago to Moca, the port works of the capital, and the public highway to San Cristobal.

# ECUADOR

The Republic of Ecuador, so called because of its situation under the equator, is bounded by the Pacific Ocean, the Republic of Colombia, Brazil, and Peru. Its area is estimated at about 420,000 square miles, including the Galapagos Islands, and is equal to the combined area of the States of California and Texas. Its population of 1,500,000 is less than that of the city of Philadelphia.

Ecuador, like Peru, may be divided into four distinct regions, with as many varieties of climate, soil, and products. In the lowlands cacao, sugar cane, tobacco, coffee, and cotton are grown, while on the high "*paramos*," or plateaux, wheat and other cereals and potatoes are successfully cultivated. The extensive forests contain numerous species of useful trees, among them the *phytelephas macrocarpa*, yielding the commercial product known as vegetable ivory, and the *carludovica palmata*, furnishing the fiber from which Panama hats are made. In spite of the name, these hats come mostly from Ecuador and Colombia, especially the former country, the natives having acquired considerable skill in their manufacture. Other valuable trees are the cinchona, from whose bark quinine is obtained; the mangrove, used for tanning purposes; and the *bomba ceiba*, or silk cotton tree, yielding the valuable commercial product known as kapok.

Ecuador's four zones are called, respectively, *tierras calientes*, the hot lowlands; *templadas*, at an altitude of from 6,000 to 9,000 feet; *frias*, which embrace the fertile plateau of Quito, on which is located the capital of the country, 9,371 feet above sea level, and the *nevados*, comprising the snow-capped Andes, among which the peaks of Chimborazo, 20,498 feet, and Cotopaxi, 19,613 feet, are the highest. The Cordillera in Ecuador branches off into two distinct mountain chains, forming a number of high plateaux crossed by spurs or nudos, which give the country a most peculiar aspect topographically, not unlike a ladder, the nudos forming the rungs.

## HISTORICAL SKETCH.

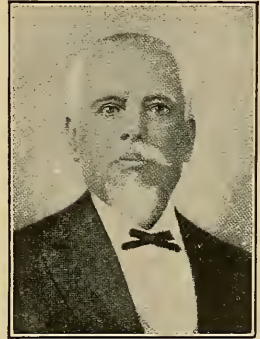
When, in the beginning of the sixteenth century, FRANCISCO PIZARRO had conquered the great Inca empire and executed the Inca king, ATAHUALPA, he dispatched his lieutenant, SEBASTIAN DE BENALCAZAR, to the north in order that he might conquer the Kingdom of Quito, inhabited by the Caras, a people with social and political institutions similar to those of the Incas. With comparative ease the Spaniards took possession of the country, and on December 6, 1534, BENALCAZAR entered the capital of Quito.

GONZALO PIZARRO was appointed Governor of the Province of Quito, and the Spaniards then pursued their usual policy of apportioning the land among themselves and establishing feudal estates.

When the viceroyalty of Peru was established, in 1542, the territory now included in the Republic of Ecuador was made a part thereof. Subsequently, in 1718, on the establishment of the viceroyalty of New Granada, with Bogota as capital, the territory was divided between the two, reverting finally to Peru.

The movement for independence began in Ecuador on August 10, 1809, when the citizens of Quito deposed the Spanish governor, Don RUIZ DE CASTILLA, and established a revolutionary junta. The Spaniards soon regained control and retained it until October 9, 1820, when the citizens of Guayaquil declared their independence. This movement was successful, and the complete victory obtained over the Royalist forces by General SUCRE at the battle of Pichincha on May 24, 1822, assured the independence of the country.

An assembly called by General SUCRE five days after this battle declared that the territory of the former presidency of Quito should be incorporated with the Greater Colombia of SIMON BOLIVAR, composing what are now the Republics of Colombia, Panama, Venezuela, and Ecuador.



GENERAL ELOY ALFARO, PRESIDENT OF ECUADOR.

This union was disrupted in the year 1830 when a Constitutional Congress, which met at Riobamba on August 14, proclaimed the constitution of the Republic of Ecuador. General FLORES was elected the first President of the Republic, and was succeeded in the year 1835 by the able statesman, General VICENTE ROCAFUERTE, under whose administration the country enjoyed peace and prosperity.

General ELOY ALFARO, the present President, was inaugurated on January 1, 1907, for a term of four years.

#### CONSTITUTION AND GOVERNMENT.

The present constitution of the Republic was adopted in 1897. Ecuador is a centralized republic with the usual division of powers into legislative, executive, and judicial branches.

The National Congress consists of the Senate and Chamber of Deputies. The former is composed of 32 members, 2 for each province, and the latter of 41 members, 1 for every 30,000 citizens or fraction over 15,000. Senators as well as deputies are elected by direct vote, every citizen over 18 years of age who can read and write

being entitled to vote. Senators are elected for a term of four and deputies for two years.

The President and Vice-President of the Republic are elected for a term of four years each, by direct vote and neither may be re-elected except after a lapse of two terms. The President may not leave the Republic without the consent of Congress during his term of office nor for one year thereafter.

In addition to a cabinet, consisting of five Secretaries of State appointed by the President, there is a Council of State presided over by the Vice-President made up of the five Secretaries of State, the Attorney-General, the Chief Justice of the Court of Accounts, the Rector of the Central University, two Senators, two Deputies, and two other citizens. The seven last-mentioned councilors are elected by Congress.

The Supreme Court, located at Quito, the capital, is the highest tribunal, and consists of five justices elected by Congress for a term of six years. The Superior Courts are located at Quito, Guayaquil, Cuenca, Riobamba, Loja, and Portoviejo, the first three named being composed of six judges and the last three of three judges each, all elected by Congress for six years. There are also five courts in the country, dealing with commercial matters only, as well as a Court of Accounts, several mining courts, provincial, county, and district courts.

The Court of Accounts is empowered to audit and investigate all public accounts and expenditures, its members, like those of the Supreme Court and the Superior Courts, being elected by Congress for a term of six years.

The territory of the Republic is divided politically into sixteen Provinces and one territory, and subdivided into *cantones* and parishes. The administration of the provinces is in the hands of a governor who is appointed by the President of the Republic, as are also the other executive officers of the cantones. In the parishes the counselors are elected by direct vote of the people, and have the right of regulating the budget and to recommend and vote improvements.

The Provinces of Ecuador and their capitals are:

Province of—	Capital.
Azuay.....	Cuneca.
Bolivar.....	Guaranda.
Canar.....	Azogues.
Carchi.....	Tulcan.
Chimborazo.....	Riobamba.
Esmeraldas.....	Esmeraldas.
Guayas.....	Guayaquil.
Imbabura.....	Ibarra.
Leon.....	Latacunga.
Loja.....	Loja.

Province of—	Capital.
Manabi-----	Portoviejo.
Oriente-----	Ahuano.
El Oro-----	Machala.
Pichincha-----	Quito. <sup>a</sup>
Los Rios-----	Babahoyo.
Tunguragua-----	Amabato.
Territory of Galapagos, composed of the Galapagos Islands.	

President-----	Gen. ALOY ALFARO.
Minister of Interior and Public Works-----	Dr. ALEJANDRO REYES V.
Minister of Foreign Affairs and Justice-----	Dr. FRANCISCO X. AGUIRRE JADO.
Minister of Treasury and Public Credit-----	Dr. CÉSAR BORJA.
Minister of Public Instruction, Posts, and Telegraphs-----	Dr. FRANCISCO J. MARTINEZ AGUIRRE.
Minister of War and Marine-----	Dr. WILFRIDO VENEGAS.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is \$6,000.

## ECUADOR IN 1908.

President ELOY ALFARRO in his message delivered to the National Congress on August 12, 1908, outlined the conditions prevailing throughout the country during 1907 and the first part of the year 1908. The Guayaquil-to-Quito line was successfully inaugurated in the course of the year and in August preliminary work was begun on the road from Huigra to Cuenca, with the prospect of opening up the rich mining and agricultural districts of the southern sections of the Republic within two years.

The entry of the first train from the coast over the newly completed road to Quito on June 25, 1908, was made the occasion of great rejoicing in the national capital.

Other lines are contemplated, one from the interior to the Pacific having a terminal on the coast nearer the Panama Canal, and the other a branch of the Guayaquil-Quito line to tap a fertile district producing cacao, rubber, and bananas. The development of the coal fields of the Republic is another outgrowth of the railroad building which is characterizing Ecuador's economic development.

The Government plans to celebrate the centenary of its independence in the summer of 1909 by a national exposition in Quito in which a number of countries have decided to participate.

### FOREIGN AFFAIRS.

The strongest ties of friendship and good will continue to exist between Ecuador and the countries of Europe and America, due largely to the satisfactory services rendered abroad by the able diplo-

<sup>a</sup>Also capital of the Republic.

matic corps of the Republic. In the administration of foreign affairs it has been the aim of the Government to cultivate, strengthen, and extend cordial relations with other powers. The arbitral award of the boundary question with Peru is to be pronounced by the King of Spain at the earliest practicable date and the boundary dispute with Colombia settled by amicable and direct negotiations of the two Republics, a treaty relating to that subject being submitted for the consideration of Congress by the Minister of Foreign Relations.

The commercial treaty with Chile has been approved by the Congress of the Republic, and a sanitary convention, based on the Sanitary Convention of Washington, and subject to the ratification of the governments of Ecuador and Panama, was negotiated in Quito on September 26, 1908. When this convention becomes operative it will have a most salutary effect upon the hygiene of the ports of the two countries in interest.

#### FINANCE.

With an income for the year 1907 of \$6,683,288 and expenditures of \$7,892,000 a deficit was reported at the beginning of 1908, to meet which a loan of \$1,500,000 was negotiated. The operating expenses of the Government for the year 1907 were actually \$6,634,000, the difference between these figures and those reported above having been used principally for disbursements on account of the Southern Railway. The Executive therefore decreed, under date of August 29, 1908, that until the end of the year all the special funds of the Republic, except those specified in the Constitution, should be used for the payment of administrative expenses. The appropriations for the Guayaquil and Quito waterworks, the parks in Quito, the waterworks at Machala, and public roads in general were diverted until January 1, 1909, into a fund to be used for the payment of the current expenses of administration.

The most important financial event in the transactions of the year was the settlement of the external debt of Ecuador as represented by the bonds of the Guayaquil and Quito Railway Company. An arrangement was made which, though necessitating important concessions on the part of the bondholders, indicated the purpose of the Government to maintain its credit, and daily deposits have been made since January 1, 1909, on the service of the debt. The foreign debt in December, 1908, was \$5,400,000 and the interior obligations about \$4,000,000.

On November 8, 1908, the President, with the authorization of the National Congress, negotiated a loan of \$4,870,000 for the payment of that part of the public debt guaranteed by the federal revenues. The President has also been authorized to impose a duty on exports



of silver coin, or to forbid said exports, should he deem it desirable. At the present price of bar silver the intrinsic value of Ecuadoran silver coin is greater than the coin value of the same, and legislation was required to prevent the Republic from being deprived of its silver currency.

Municipal expenditures in Guayaquil were reduced by the suspension of certain public works.

#### COMMERCE.

Foreign commerce for 1908 was represented by \$15,296,627, imports amounting to \$6,950,256 and exports \$8,346,371. These figures are lower than those of the preceding year, when the foreign commerce of Ecuador showed an increased valuation of nearly \$1,500,000 over 1906. This is the more remarkable from the fact that the increase was on the side of imports entirely, thus showing the improvement in the purchasing power of the country. Total trade values in 1907, the latest year for which details are available, were \$21,643,200, France taking first rank as a receiver of exports and Great Britain retaining her place as supplier of imports.

The United States occupied second place on both the export and import lists of the country. United States statistics give \$2,196,131 as the value of imports from Ecuador in 1908, with shipments thither to the value of \$1,814,434.

Cacao, the most important commercial commodity on the export list, was shipped abroad in 1908 to the extent of 64,000,000 pounds, valued at \$6,400,000. Of this quantity the United States took 11,381,460 pounds, while the visible supply in the warehouses of the Republic on January 1, 1909, was estimated at 1,000,000 pounds. Cacao figured for more than half of the total exports, and 50 per cent of that product was shipped to France.

Other important items of export are toquilla straw hats, known commercially as "Panama" hats, india rubber, coffee, hides, and vegetable ivory. The export value of hats is placed at about \$1,000,000 yearly, the hats ranging in price from \$1 to \$125 each. The center of this industry is the town of Jipijapa.

Vegetable ivory, the trade name for the corozo or tagua nut is exported annually to the extent of about 20,000 tons, Germany taking one-half, United States one-fourth, and Italy, France, and other European countries the remainder of the output. The value of this product shipped to the United States in 1908 was \$142,000, as compared with \$204,350 for the year 1907.

In addition to the large shipments of cacao from Guayaquil in 1908 there were exported 68,241 hides of neat cattle valued at \$135,-

000; 4,964,000 pounds of coffee valued at \$273,000; 3,400,000 pounds of vegetable ivory worth \$102,000, and 470,000 pounds of rubber valued at \$235,000. Of the hides exported the United States took 54,982; Great Britain, 6,114; France, 4,265; and Germany, 2,880. The imports from the United States were chiefly flour, wine, rope, machinery, codfish and salmon, sugar, brooms, and lumber.

For 1907 the total exports amounted to \$11,793,213, and imports to \$9,849,987. As compared with the preceding year exports showed a gain of \$102,970, and imports the remarkable increase of \$1,344,187.

The principal articles of export were: Cacao, 43,348,369 pounds, worth \$6,934,257; ivory nuts, 47,131,627 pounds, worth \$1,358,056; hats to the value of \$1,171,043; rubber, 1,031,510 pounds, worth \$777,544; hides, 2,622,497 pounds, worth \$351,344; gold coin, \$117,550; and toquilla straw, to the value of \$90,253.

The leading items of the import list were: Textiles other than silk, \$2,622,885; food products, \$1,535,907; gold and silver coin, \$1,084,444; iron and hardware, \$640,886; wines and liquors, \$444,063; minerals (coal), \$413,284; machinery, \$363,634; clothing, \$327,583; drugs and medicines, \$292,147; and shoes and findings, \$166,387. The distribution of this trade showed the following values: United States, exports \$3,347,185, imports \$2,349,182; Great Britain, exports \$1,165,397, imports \$3,540,996; France, exports \$4,046,380, imports \$598,300; Germany, exports \$1,483,627, imports \$1,800,000; Peru, exports \$441,299, imports \$147,022; and Chile, exports \$348,260, and imports \$162,008.

#### PRODUCTION AND INDUSTRIES.

The chief occupation of the inhabitants of the Republic is agriculture, the raising of cacao being extensively engaged in as is indicated by the premier position of that article on the export list of the country. Rubber, sugar, coffee, bananas, and rice are also cultivated. The estimated annual production of the last mentioned product is in the neighborhood of 40,000,000 pounds, which is not quite sufficient to meet the demands of the home market necessitating importations from various foreign countries.

The growing of sugar cane is of considerable importance, the output of the various plantations aggregating in the neighborhood of 160,000 bags (of 100 pounds), which is about sufficient for the home market although there is some traffic in this article with outside countries.

The coffee crop is estimated to be about 7,000,000 pounds annually, and the output of vegetable ivory nuts, of which Ecuador exports a considerable quantity, is placed at 48,000,000 pounds, all of which is exported.

Rubber is gathered and brought to market during all the months of the year, something more than 1,000,000 pounds representing the annual yield.

In order to encourage the development of the grape industry the National Congress has exempted domestic grape products from the payment of federal and municipal taxes, and for the general promotion of agricultural development the Government has recommended the establishment of boards of agriculture in Quito, Guayaquil, and Cuenca. These boards will work in conjunction with the Government for the development and improvement of stock raising, irrigation, planting and fertilizing of lands, the harvesting of crops, and the improvement of the means of communication. The importation of useful seeds, plants, and animals will be encouraged and premiums offered for the best results obtained in the agricultural and stock-raising industries of the Republic. Included in this plan are the founding of agricultural schools and the establishment of meteorological observatories.

Other than the plaiting of hats, to protect which an export duty is placed on shipments of toquilla straw, manufacturing industries are represented by foundries, ice plants, sugar refineries, and a number of flour mills. Several small establishments are also engaged in the manufacture of woolen and cotton blankets, ponchos, bayetas, common carpets, felt hats, etc. Laces, embroideries, shoes, furniture, matting, saddles, wagons, and carts are made by hand, and a small shoe factory is being installed.

The principal industries of Guayaquil of long standing cover such important articles of consumption as vermicelli, chocolate, biscuits, beer, ice, soap, candles, and liquor, while the more recent industries consist of the manufacture of bags, wafers, cotton fabrics, mosaics, and a well-equipped tannery. The manufacture of matches has been particularly successful in the Republic, and the quality and price of this product compare most favorably with matches of foreign manufacture.

In Quito manufacturing interests are represented by seven flour mills, one foundry, one ice factory, and two sugar refineries. Shoes are made by hand. Other industries, such as the making of blankets, ponchos, carpets, saddles, hats, furniture, and pottery, are represented in a small way. The capital is also noted for the large amount of religious painting and sculpture done within its limits and exported to other countries. The making and coloring of small articles from vegetable ivory and the curing of the skins of small birds, particularly humming birds, are carried on to some extent in the city.

The mineral deposits in the country have as yet been only slightly exploited. The country is known to be rich in copper, iron, lead, and coal, while silver ore deposits have been found but not worked, and

at Esmeraldas platinum has been found in variable quantities. Sulphur also is known to exist in large quantities in the Pichincha district and in the Galapagos Islands. Lack of transportation facilities only retards the development of the coal deposits in the interior of the Republic.

#### COMMUNICATION FACILITIES.

The total extent of railway lines in operation in 1908 was given as a little over 316 miles. The Guayaquil and Quito Railway Company completed the construction of its line from Guayaquil to Quito on June 25, 1908, and since that date trains, both passenger and freight, have been running regularly between the two cities. The regular passenger trains only run during the day and make the trip (297 miles) in two days when formerly, by mules and on foot it was not uncommon to require twelve and fifteen days in going over the same route. Since the completion of the railway the people of Quito, and of the whole Republic are looking forward to a new era of progress. The operation of the newly opened line is rendered expensive through the necessity of importing coal from Australia, though coal fields, equal in extent to those of West Virginia, exist within 40 miles of the main road. An arrangement has been entered into by the railroad company for the exploitation of these deposits, it being estimated that the cost of constructing a branch to them will be about \$1,500,000. The completion of this project will make the whole line pay handsomely.

On August 6, 1908, preliminary work was begun on the railway from Huigra to Cuenca, which is to be completed within twenty-eight months, and when finished will open the rich mining and agricultural district of southern Ecuador. This road not only traverses coal fields of enormous value but is an important link in the Intercontinental Railway, opening up the vast plateau of southern Ecuador and connecting Cuenca, the third city of the Republic, with Quito and Guayaquil. The President advocates the extension of the Guayaquil and Quito Railway to Ibarra and Tulcan, thus placing the principal port of the Republic in rapid communication with the rich and fertile provinces of Imbabura and Carchi.

Another contemplated line is that from Bahia de Caraquez to Quito which would practically parallel the Guayaquil to Quito line and have its outlet 100 miles north of Guayaquil at a point provided with a fine harbor and capable of adequate development. The Government has recently renewed the contract for the line which expired by limitation.

The company operating the street car line in Guayaquil increased its capital stock from \$250,000 to \$375,000 on January 1, 1908, at which time it had a trackage of 26 miles. The present motive power

is animal, but the company plans to electrify its lines in the near future. Electric tramway lines are also under consideration in Quito to be operated in conjunction with the city lighting plant.

Ecuador is accessible practically only from the Pacific Ocean, communication by land with the neighboring Republics of Brazil and Colombia being well-nigh impossible, owing to the dense forests and the high altitudes of the mountain ranges. On the Pacific coast, however, Ecuador has a number of good ports, affording anchorage and shelter for the largest ocean-going vessels, the most important of which is Guayaquil, connected by rail with the capital, Quito. Other ports of importance are Bahia de Caraquez, Manto, Puerto Bolivar, and Esmeraldas, which may be reached either directly from New York by way of Magellan Straits or via Panama or San Francisco.

Two steamship lines ply between New York and Guayaquil, the New York and Pacific Steamship Company and the West Coast Line, with irregular sailings about once a month, employing from sixty to seventy-four days in the trip, and having mostly freight boats in this service.

From Panama connection can be made with the Pacific Steam Navigation Company, the *Compañía Sud-Americana de Vapores*, or the Peruvian Steamship and Dock Company of Callao, with regular weekly sailings, employing from five to six days from Panama to Guayaquil, the cost of first-class passage being \$68 from Panama.

The Kosmos Line maintains a regular fortnightly service on the Pacific coast, touching at all the more important ports between San Francisco and Magellan Straits, their steamers making the trip from San Francisco to Guayaquil in from twenty-one to twenty-six days, while various other lines maintain regular services between European and Ecuadorean ports.

Some twenty steamers, as well as a number of sailing vessels and freight canoes, maintain an active coast and river service, most of the numerous rivers of Ecuador being navigable for considerable distances inland and affording excellent means of transportation. The Guayas River, at the mouth of which is the city and port of Guayaquil, is the most important of these waterways, being navigable for river steamers as far as Bodegas, 40 miles from Guayaquil, while smaller vessels can, during the wet season, reach Zapotal, some 200 miles inland. The River Daule is navigable for some 60 miles, the Vinces for 50 miles, while the Esmeraldas, Rio de Naranjal, Santa Rosa, Santiago, and Mira rivers are all navigable, during the rainy season, for short distances, varying from 10 to 60 miles or more. The Amazon River, which in Ecuador is given the name of Marañon River, is navigable almost in its entirety, and thus the eastern slope

of the Ecuadorean Andes may be reached by way of Brazil and the Amazon River and its tributaries.

Port entries at Guayaquil during 1907 show a total of 202 steamers and 8 sailing vessels, with a registry of 422,344 tons. More than half were British, 57 were Chilean, 37 German, 3 French, 1 Peruvian, and 1 American.

The total extent of the telegraph system is 2,564 miles, with 60 stations. A telephone service is maintained in the city of Quito and suburbs, with long-distance connection with Guayaquil and other cities of the Republic. The line to Guayaquil is to be reconstructed with modern equipment and the service in the capital equipped with up-to-date apparatus. Wireless telegraph stations are planned for Guayaquil and Isla de Puna.

#### PUBLIC INSTRUCTION.

The public-school system of the Republic is being markedly improved, and the modern methods adopted have produced flattering results. Quito has 5 colleges (one of them a military college), 2 normal institutes (one of which is for girls), a university, a medical school, 2 seminaries, a theological school, an institute of science, a school of arts and trades, 3 schools for young women, and 3 kindergartens.

There are 6 monasteries, 7 convents, 2 seminaries, 7 parochial churches, 15 conventual churches, a cathedral, a basilica, and 13 chapels, covering nearly one-fourth of the area of the city. The Franciscan monastery, which covers several acres, is said to be the largest in the world.

The Government is keenly aware of the effect upon the economic future of the Republic to be brought about by the completion of the Panama Canal, and measures are being taken for the proper sanitation of Ecuadorean ports to meet future trade requirements. The chairman of the sanitation is Dr. B. J. LLOYD, of the Marine-Hospital Service of the United States.

Many foreigners are expected in the Republic during the progress of the exposition to be held in Quito throughout the summer of 1909, and measures taken to provide hygienic conditions have received active municipal and government aid.

Quito, the capital, has a population of 75,000, and that of Guayaquil is estimated at from 75,000 to 80,000.

# GUATEMALA

The Republic of Guatemala, the northernmost of the Central American Republics, is bounded by the Pacific Ocean, Mexico, British Honduras, the Gulf of Honduras, and the Republics of Honduras and Salvador. It has a total area of 48,290 square miles, equal to that of the States of Kentucky and New Jersey, and an estimated population of 1,991,261.

With the exception of a small strip along the coast, Guatemala lies at an altitude of from 4,000 to 11,500 feet, its capital, Guatemala City, being 4,850 feet above the level of the sea. The chain of mountains which traverses its territory and sends out a number of spurs, forms several plateaux, which are extremely healthful and fertile, and on which products of tropical and temperate zones are successfully grown. The coffee exported from Guatemala is noted for its excellence, and sugar, cacao, tobacco, and bananas are also grown for shipment. A limited trade is carried on in india rubber from the product of the *castilloa elastica*, and various classes of cabinet and other woods.

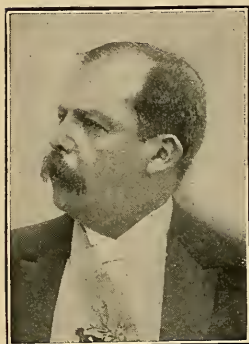
## HISTORICAL SKETCH.

PEDRO DE ALVARADO, a lieutenant of CORTEZ, was the first to attempt seriously the conquest of Guatemala, then inhabited by the Quichés, Caribs, and other warlike Indian tribes. Due to constant strife among the natives the Spaniards easily succeeded in conquering and enslaving them, and in the year 1524 ALVARADO, in order to firmly establish his authority, had the two kings of the Quichés executed. Guatemala, which at that time comprised all the territory now known as Central America, as well as the Mexican States of Chiapas and Yucatan, became a captain-generalcy, at first independent, but later under the authority of the Viceroy of Mexico.

In July, 1527, ALVARADO founded the City of Guatemala. This first city was short lived and in the year 1542 it was rebuilt on the site of what is now the old city, which was itself in turn destroyed by an earthquake in the year 1773. In 1776 the present city was laid out at a site 25 miles northeast of La Antigua, the old city.

After several unsuccessful attempts, independence was finally achieved by the countries comprising the former Kingdom of Guatemala on September 15, 1821. The Spanish Governor, GABINO GAINZA, who was in favor of the revolution, was elected President of the Provisional Junta. In January of the following year, however,

Guatemala became a part of the Empire of Mexico. When, in the year 1823, ITURBIDE was forced to abdicate the throne of Mexico and the latter country became a Republic, Guatemala was once more at liberty to chose a form of government, and a Constituent Congress, which had been summoned by General FILOSOLA, the Mexican Governor of Guatemala, declared on July 1, 1823, that the old Kingdom of Guatemala should henceforth be free and independent from Spain, Mexico, or any other nation, and should form an independent nation under the title of the Central American Federation, embracing the present Republics of Guatemala, Honduras, Salvador, Nicaragua, and Costa Rica. General JOSÉ ARCE was the first President of the Federation.



SR. DON MANUEL ESTRADA CABRERA,  
PRESIDENT OF GUATEMALA.

The Union did not, however, prove practical, and one by one the States seceded and formed independent Republics, Guatemala finally establishing an independent Government on April 17, 1839, under the title State of Guatemala, which name was changed on March 21, 1847, to that of the Republic of Guatemala.

Several attempts have from time to time been made by the different Republics to reestablish the Central American Union, but these have failed. An arrangement was brought about by the Central American Peace Conference, held in Washington in December, 1907, the result of which has been the establishment of an International Court of Justice at Cartago, Costa Rica, and an International Bureau at Guatemala to promote the industries, commerce, and agriculture of the Central American Republics.

President MANUEL ESTRADA CABRERA was inaugurated March 15, 1905, for a term of six years.

#### CONSTITUTION AND GOVERNMENT.

Upon separation from the other Central American States, Guatemala adopted the unitary, republican form of government, with powers vested in the legislative, executive, and judicial branches.

The National Assembly consists of one chamber only, composed of 69 deputies, one for every 20,000 inhabitants or fraction thereof over 10,000, elected by direct vote of the people for a term of four years.

During recess the Assembly is represented by a permanent committee of seven members, appointed by the Assembly, whose business it is to prepare all legislation for the next session and to advise the Executive.



The President of the Republic is elected by direct vote, all citizens over 21 years of age, who are able to read and write, being entitled to vote. His term of office is six years, and he may not be reelected except after the expiration of at least one intervening term. There is no Vice-President, but two *designados* are elected at the same time as the President, who take the place of the Chief Executive, in case of his death or disability, in their respective order.

A cabinet of six Secretaries of State assist the President in the administration of affairs of the Republic, and also a Council of State composed of fifteen members, of which the six Secretaries of State form part *ex officio*, five councillors being elected by the Assembly and four appointed by the President.

The national supreme court, six courts of appeals, and a number of district or municipal courts comprise the judiciary of the country. The supreme court has five members and the courts of appeals three members each, all of whom are elected by direct vote of the people.

Guatemala is divided politically into 21 departments, each of which is again subdivided into districts or *municipios*. The *Jefe Político* or Political Chief is the highest authority in the department. The *alcaldes* are the administrators of the districts and are elected by direct vote, as are also the *rigidores* or aldermen.

Following are the Departments of Guatemala with their respective capitals:

Department of—	Capital.
Alta Verapaz.....	Coban.
Amatitlan.....	Amatitlan.
Baja Verapaz.....	Salama.
Chimaltenango.....	Chimaltenango.
Chiquimula.....	Chiquimula.
Escuintla.....	Escuintla.
Guatemala.....	Guatemala. <sup>a</sup>
Huehuetenango.....	Huehuetenango.
Izabal.....	Izabal.
Jalapa.....	Jalapa.
Jutiapa.....	Jutiapa.
Peten.....	Flores.
Quezaltenango.....	Quezaltenango.
Quiche.....	Santa Cruz del Quiche.
Retalhuleu.....	Retalhuleu.
Sacatepequez.....	Antigua Guatemala.
San Marcos.....	San Marcos.
Santa Rosa.....	Cuaquiquilapa.
Solola.....	Solola.
Suchitepequez.....	Mazatenango.
Totonicapam.....	Totonicapam.
Zacapa.....	Zacapa.

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<sup>a</sup> Also Capital of the Republic

President-----	Señor MANUEL ESTRADA CABRERA.
Secretary of Foreign Affairs-----	Señor JUAN BARRIOS M.
Secretary of Government and Justice-----	Señor JOSÉ M. REINA ANDRADE.
Secretary of the Treasury and Public Credit---	Señor GUILLERMO AGUIRRE (in charge of Foreign Affairs).
Secretary of War-----	Señor LUIS MOLINA.
Secretary of Public Instruction-----	Señor ANGEL M. BOCANEGRA.
Secretary of Fomento-----	Señor JOAQUIN MENDEZ (in charge of Public Instruction).

NOTE.—List of cabinet officers corrected to July 20, 1909.

The President is allowed a salary of 30,000 pesos (about \$10,500) per annum.

## GUATEMALA IN 1908.

The favorable status enjoyed by Guatemalan affairs during 1908 and the prospective continuance of the same during 1909 are dwelt upon in a message delivered by President ESTRADA CABRERA to the National Assembly on March 1 of the latter year.

A surplus is credited to public revenues and increased earnings noted for various public enterprises. The new mining code, promulgated in June, 1908, was productive of augmented activity in this field, and increased yields of bananas, rubber, sugar, and hard woods are features of the year's industrial life.

The gathering of medical men of the Western Continent in the capital of Guatemala during the month of August was made the occasion of many notable celebrations, both of a social and official character. That the Pan-American Medical Congress as a feature of international development is fully appreciated is evidenced by the utterances of the delegates, all of whom paid tribute to the unity of interests developed by the frequent meetings of American scientists. Especially appropriate remarks were made at the opening of the Congress by the delegate from the United States, who called attention to the fact that the first Congress was held in Washington to commemorate the four hundredth anniversary of the discovery of America. Representatives were present from practically all the countries of Latin America.

Another important event of the year was the inauguration in the city of Guatemala on September 15 of the International Central American Bureau, in accordance with the Washington Convention of December 20, 1907. The personnel of the Bureau embraces representatives from the five Republics of Central America.

The Government is taking steps to establish adequate hygienic measures in the country through the opening of a National Pasteur Institute in Quezaltenango and by the requirement that entry into Government employ and also into certain specified private enterprises shall be made only by persons who have been vaccinated. The

sanitation of Puerto Barrios is another organized effort in the same direction.

This port is the Caribbean terminus of the country's interoceanic railway, which was completed and opened in January, 1908, with imposing ceremonials.

The development of railway communication with the adjacent Republics is another forecast of progress in this enterprising Republic, measures for connection by rail with the Salvador and Mexican frontiers being the subject of recent contracts.

On February 15, 1909, the Government ratified the conventions adopted by the Third International Conference of American States held in Rio de Janeiro in 1906, covering the status of naturalized citizens who return to their own country after a foreign residence, international law, patents of invention, trade-marks, and literary and artistic property.

#### FINANCE.

The budget of expenditures for 1909-10 is fixed at \$13,000,000.

The general revenues of the country in 1908 amounted to \$14,000,984, as compared with a budget estimate of \$10,312,500, and expenditures were \$16,848,657 instead of the estimated sum of \$12,071,436. From customs \$9,578,310 were received, whereas the budget estimate had fixed the receipts from this source at \$6,656,250, and from liquors and articles controlled by the Government \$2,634,848 were collected, exceeding the budget estimate by nearly \$400,000. From other taxes \$1,202,575 were received, and from posts and telegraphs, \$586,857.

The budget for the fiscal year commencing with July, 1908, estimated government expenditures for the twelve months at \$13,308,039.

On December 31, 1908, the debt of the Republic was represented by \$13,694,445 gold and \$71,884,744 national currency. The necessity of applying all available funds toward the completion of the Northern Railway and the maintenance of increased armaments have in the immediate past diverted large sums from the external debt service, but with the completion of this important railroad in January and the satisfactory settlement of certain vexed questions with neighboring States, funds will be liberated for the requirements of the bondholders.

#### COMMERCE.

The total value of the foreign commerce of the country in 1908 was \$12,567,729.20, consisting of imports \$5,811,586.07 and exports \$6,756,143.13. As compared with 1907 a general decline in trade to the amount of \$4,923,331.20 is noted, of which the larger portion is to be credited to decreased exports, caused by the small coffee crop.

Among the countries of origin for imports, the United States occupied first place, followed by Germany, England, France, in the order named. The valuations furnished by these countries and other principal contributing markets were: United States, \$1,718,660; Germany, \$1,258,193; England, \$1,061,843; France, \$209,947; Japan and China, \$118,415; Belgium, \$93,309; Mexico, \$29,640; Central America, \$8,941.

Of exports, the United States and Germany took the bulk, the former country being credited with \$1,776,676, and the latter with \$3,939,207. Next in rank as a receiver of Guatemalan exports is France with \$713,765, followed by British Honduras, \$105,807; Austria-Hungary, \$92,026; Mexico, \$62,325; and South America, \$26,252, smaller valuations being shipped to various other points.

Merchandise and goods imported free of duty declined from \$640,532.65 to \$251,204.29, the decrease being in the main attributable to the falling off in receipts of railway material. Imports of cotton fabrics were valued at \$1,389,576; linen, flax, and jute goods, \$167,879; woolen fabrics, \$178,836; and silk manufactures, \$211,613, all the items mentioned showing decreased valuations as compared with the preceding year.

Increased imports are to be noted of wire, raw cotton, electrical materials and apparatus, barley, iron beams and bars, cotton yarns, printing paper, and hides. Iron, coal, distilled waters, druggists' supplies, wines, starch, rice, beer, lard, salt, and wheat also declined in import ratios. From August 20 the proportion of import duties to be paid in gold on all goods cleared through the customs of the Republic was fixed at 50 per cent. payable in American gold coin or in negotiable bills of like value.

On the export list coffee occupied the first place, being shipped to the amount of 60,722,000 pounds, worth \$5,697,183; hides, valued at \$266,707, coming next, followed by 668,246 bunches of bananas, worth \$200,474; sugar, \$186,788; rubber, \$158,573; woods, \$144,349; chicle, \$59,710; skins, \$24,576; and other vegetable and industrial products, \$15,506, sundries figuring for \$2,274. Sugar, bananas, and hides showed advanced valuations as compared with the preceding year, and of sugar it is reported that the years 1899 and 1900 alone showed greater shipments.

In the distribution of exports Germany took 58.31 per cent, the United States 26.30, England 10.56, and other countries 4.83.

The bulk of the coffee shipments were sent to Germany, that country figuring for 35,725,100 pounds on the export list, followed by the United States, 13,965,900 pounds, and England, 5,903,100. Of the sugar exported, 3,998,100 pounds went to England, 1,917,800 pounds to the United States, and 41,300 pounds to Germany. Rubber ship-

ments were made to Germany of 196,300 pounds, and the United States, 118,000. To the same countries were sent the greater part of the woods, 504,609 feet going to the United States and 283,647 to Germany. All of the bananas were sent to the United States.

#### PRODUCTION AND INDUSTRIES.

Coffee, which is the leading article of Guatemalan production and export, is produced annually to the amount of about 70,000,000 pounds. For 1908 the total output was smaller than in the three preceding years, the export quantity being over 60,000,000 pounds, as against 68,000,000 and 90,000,000 pounds in 1906 and 1907. The estimate for 1908-9 places the output at about 81,000,000 pounds. The coffee year is reckoned from October 1 to September 30 following.

Sugar and bananas are profitably grown in increasing quantities, and cotton cultivation has been rendered practically compulsory on suitably conditioned lands by a presidential decree of July.

The encouragement of agriculture in all its branches is the subject of governmental aid, it being desired not only to improve the methods of cultivation employed in the growing of such staples as coffee, bananas, cacao, and sugar, but also to introduce new cultures. The establishment of experimental gardens and stations for the cultivation and distribution of native and foreign plants for private enterprises, the opening of agricultural expositions for the display of the various animal and vegetable products of the country, and the protection afforded to coffee growers are all parts of this paternal policy.

The exploitation of the timber reserves of the country is also occupying official attention, valuable concessions having been recently granted covering the cutting and export of cabinet and dyewoods, the extraction of chicle and other gums, and the adequate development of the rubber industry.

With the purpose of developing the well-known mineral resources of the Republic, the President, on June 30, 1908, promulgated a new code of laws regulating the acquisition and exploitation of mines. The law carries with it the creation of a Bureau of Mines, under the Department of Fomento, which is charged with supervisory direction of measures for the acquisition of new properties, the development of old ones, and all transactions tending to promote the mining industry in the Republic.

Mines of gold, silver, copper, iron, lead, zinc, antimony, etc., are known to exist in various sections, but have hitherto been inadequately exploited. The lack of development of this important branch of industry has been hitherto attributable in a great degree to insuffi-

cient transport facilities, which condition is, however, being rapidly overcome.

The manufacturing interests of the country are largely confined to the textile industry, raw cotton and cotton yarns figuring largely on the import list. A large factory near Quezaltenango employs 250 operatives and consumes about 2,500,000 pounds of cotton annually. Breweries, sugar mills, and tanneries also are profitably conducted.

#### COMMUNICATION FACILITIES.

Railways in the Republic have a total extent of about 480 miles.

Apart from the completion of the Northern Railway between Puerto Barrios and San Jose, 195 miles long, which signalized the opening month of the year, and opened a new interoceanic line in America, communication facilities showed noteworthy progress during the year. Roads and bridges for the accommodation of the traveling public were constructed and extensive surveys made for new rail routes.

Notable among these projected roads are connections between Zacapa and the Salvador frontier and between Quezaltenango and San Felipe, another line being projected to Ayutla, on the Mexican frontier.

The main line will run in an easterly direction from Quezaltenango, in the western part of Guatemala, through the great central region of the country to Zacapa, 55 miles from the boundary line with Salvador, thence to the frontier, where it will connect with the Santa Ana line of the latter country. The road is to be completed within two years at an estimated cost of \$3,000,000.

Connection at the Mexican border would give Guatemala through railroad communication with the United States, and the recently transferred concession for the construction of a railway from Caballo Blanco on the Occidental Railroad to Coatepeque, from which point extension is to be made to Ayutla, completes the 40-mile gap in the Pan-American chain.

The Ocos Railway, though only 24 miles in length, handles over 15,000,000 pounds of coffee annually, connecting the port of Ocos with the rich producing districts of Tumbador and San Marcos. It is proposed to establish connection by rail with the capital over this route, and lines opening up new agricultural and mining regions are under consideration.

All existing Guatemalan railroads are 3-foot gauge.

In 1908 entries at the ports of the Republic totaled 624 vessels, carrying 2,651 passengers and 35,545,360 kilograms of freight, clearances being reported of 601 vessels, with 2,663 passengers and 61,858,530 kilograms of freight.

The Republic of Guatemala is accessible both from the Atlantic and from the Pacific Ocean, its principal ports on the Atlantic seaboard (Gulf of Honduras) being Puerto Barrios and Livingston and on the Pacific San José de Guatemala, Champerico, and Ocos. The Hamburg-American, Harrison Line, and occasionally the Royal Mail steamers stop at Atlantic ports, and from New York the Atlantic ports of Guatemala may be reached with the United Fruit Company's steamers, which leave New York twice a month, occupying about ten days to Puerto Barrios, first-class passage \$70.

The same company also has regular sailings from New Orleans for the Guatemalan ports, making the trip in five days, at a cost of \$30 for first-class passage, and the Orr Laubenheimer Company has a regular weekly service between Mobile and Guatemala, the time and rate being the same as on the New Orleans line.

The Pacific ports may be reached either from New York, with transshipment at Panama, or via San Francisco, the Pacific Mail Steamship Company and the Kosmos Line having regular sailings from San Francisco every ten days, calling at Ocos, Champerico, and San José, making the run in from fourteen to seventeen days; first-class passage \$75 and \$100.

The interior waterways of Guatemala are very extensive, embracing a considerable number of rivers and lakes, some of which are navigable and form important means of communication and transportation. Among the rivers the Usumacinta River is the most important; the greatest length of this river, however, flows through Mexican territory and, owing to the numerous bars, is only navigable for small craft. The Motagua is navigable for over 100 miles for small vessels, and the Polichic is navigable as far as the inland port of Panzos. This river empties into the Izabal Lake, the largest lake in Guatemala, which in turn communicates with the River Dulce, emptying into the Gulf of Honduras, near the port of Livingston, and thus the three combined form an important waterway. Lake Izabal is 58 miles long by 12 miles wide, with a depth of nearly 40 feet throughout. Other lakes are the beautiful Atitlan, situated at an altitude of 5,245 feet, and completely surrounded by mountains; the Amatitlan, the Peten or Itzal, and numerous others. The inland ports are Izabal, on Lake Izabal; Panzos, on the River Polochic; and Gualan, on the Motagua River, none of which, however, can be reached by ocean-going vessels, owing to the bars at the mouths of the rivers, and they are therefore accessible only for vessels of light draft.

Guatemala City is connected by rail with the ports of San Jose on the Pacific side and with Puerto Barrios on the Atlantic side, being 75 miles distant from the former and 189 miles from the latter point.

## POSTS AND TELEGRAPHS.

The receipts from posts in 1908 were \$165,745, an increase of \$33,000 over 1907. In 1908, postage stamps of the denominations of 1, 2, and 6 cents were issued to the number of 1,200,000, and to the value of \$15,375, and surcharged stamps were placed on sale to the value of \$79,875.

The telegraph and telephone lines were kept in good repair, and new lines are being constructed between Zacapa, Puerto Barrios, and Guatemala City, in accordance with the recommendations of an executive order of March 31, 1908. The receipts of the telegraph and telephone service in 1908 were \$395,978. The number of telegraph messages sent in was 1,205,261. The total length of the telegraph system of the Republic on December 31, 1908, was 3,697 miles, and the aggregate length of the telephone lines on the same date was 384 miles.

## IMMIGRATION AND PUBLIC INSTRUCTION.

Immigration and colonization are being encouraged, and with the object of attracting new currents of immigrants a committee has been appointed under the direction of the Department of Fomento to take active measures in regard to acquainting the world with the opportunities offered in the Republic for industrial enterprises.

A new law promulgated April 30, 1909, makes ample provisions for the care of colonists.

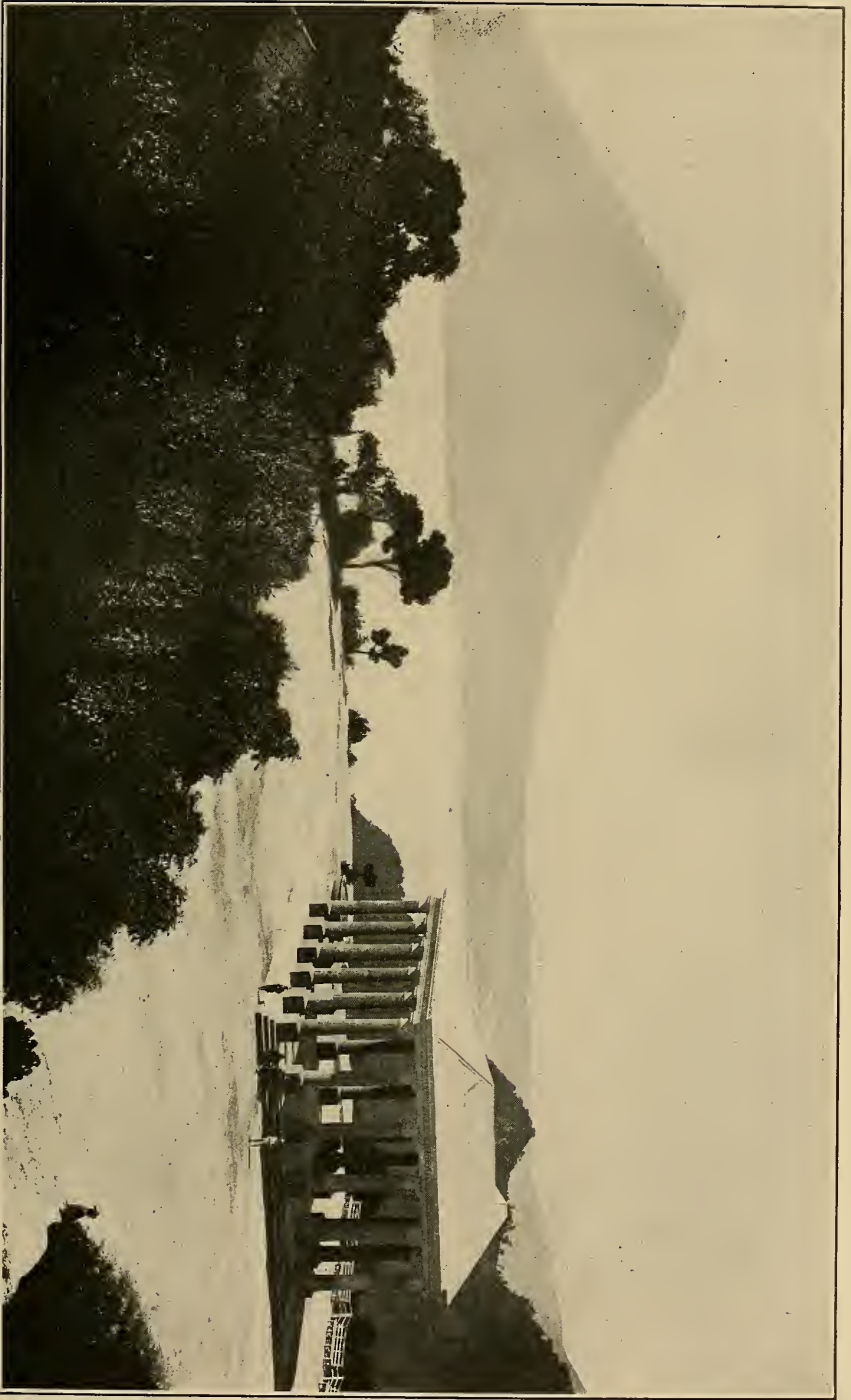
The value of higher education is thoroughly appreciated by the present executive, and it is to his initiative that the festivals of Minerva, which mark the close of the scholastic year throughout the country, are due.

In 1908 there were 1,330 schools in the country, attended by 51,280 pupils, showing an increase of 68 schools and 780 scholars as compared with 1907.

The higher educational institutions established at Guatemala City and Quezaltenango include schools of law, medicine, surgery, dentistry, pharmacy, and commerce. These schools, especially that of medicine, under whose auspices the Pan-American Medical Congress met during the year, enjoy a high reputation throughout Latin America, and attract many students from the neighboring Republics. There are also night schools for artisans, the pupils of which are exempt from military service.

The Minister of Instruction has a special portfolio in the President's cabinet and many Guatemalan youths are educated abroad at government expense. The country maintains a national conservatory of music and a school of fine arts, in both of which the instructors





TEMPLE OF MINERVA, AMATITLAN, GUATEMALA.

On October 28, 1899, President Manuel Estrada published a decree setting apart the last Sunday in October of each year as a national holiday to celebrate the benefits of public instruction. The exercises and festivities are participated in by teachers, pupils, and the general public, and are held in temples erected and dedicated to this purpose.

are largely European and American artists. Especial encouragement is given in the schools to manual and mechanical training.

Among the various municipal improvements undertaken during the course of the year were the erection of markets, educational buildings of various kinds, notably the Temples of Minerva; a handsome new post-office in the capital; numerous hospitals and asylums; in addition to which public gardens and parks were opened, improvements made to public edifices, and monuments of artistic merit placed in position.

Other public measures include the drafting of a law for the regulation of labor, exemption from military service granted to certain towns, and the organization in the capital of a mineralogical museum for the display of specimens of the mineral wealth of the Republic.





# HAITI

The Republic of Haiti, which occupies the western half of the island of the same name, has an area of 10,200 square miles, equal to the States of New Hampshire and Rhode Island, and a population of 2,000,000. Haiti is one of the most populous of the American republics, taking into account its area, with 236 inhabitants to the square mile.

Haiti is a land of mountains and valleys, shaped like an immense U with the arms pointing westward and inclosing the Gulf of Gonaives. In the center of the gulf is the island of Gonaives and around its margin are dozens of fine natural harbors where the largest ocean-going ships may find shelter.

The principal products of Haiti are coffee, cacao, cotton, tobacco, and sugar. In the dense forests which cover the mountains, and the deep valleys intervening, there is a wealth of flora unsurpassed in the western world. The cabinet woods are well known, and there is an abundance of timber for structural purposes.

## HISTORICAL SKETCH.

The island was discovered by COLUMBUS on his first voyage, and remained as a whole under Spanish dominion for two hundred years. But this dominion, as regards the western end, was not uncontested. The buccaneers, English, Dutch, and French, but chiefly French, after the destruction of their first rendezvous on St. Christopher's seized, in 1530, the small island of Tortuga, a few miles off the northwest coast of Haiti, and from this stronghold the Spaniards were unable to dislodge them. On the contrary, the buccaneers made constant incursions to the mainland and even attempted settlements thereon. These settlements became permanent about 1630, and from then to the date of the treaty of Ryswick, in 1697, the hold of the French adventurers on the western half of Haiti became stronger and stronger. By the treaty of Ryswick, Spain ceded the country held by the adventurers to France, but the line of demarcation between the French and Spanish parts of the island was not accurately laid out until 1770.

Within a little more than fifty years following the first Spanish settlement of the island the native inhabitants were practically exterminated. This led to the introduction of negro slaves from Africa, who were needed to take the place of the Indians in the mines and particularly in the fields, for during the seventeenth and

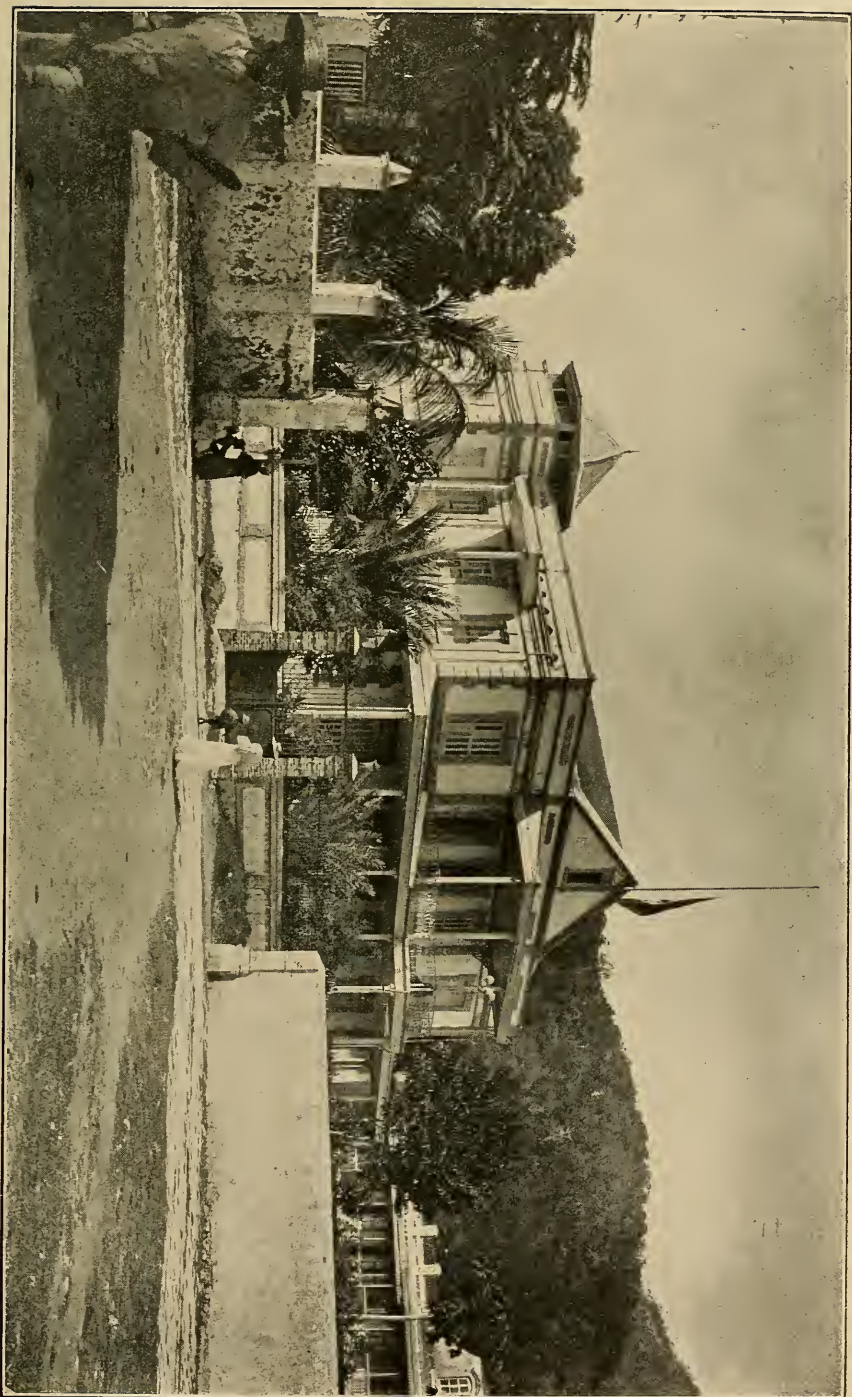
eighteenth centuries Haiti had become a country of large plantations owned by rich French landholders. At the beginning of the French revolution the population of Haiti was overwhelmingly black, but slave, and controlled by a handful of white French soldiers, land-owners, and overseers.

In 1793, France being then at war with England, the English General WHITELOCKE invaded the country. Freedom was offered by the French authorities to all slaves who would enroll themselves in the army against the enemy. This was followed soon afterwards, in August of the same year, by a decree abolishing slavery. As a result of the military assistance rendered by the blacks the English were forced to evacuate the island.

The principal credit for successful resistance to the English was due to TOUSSAINT L'OUVERTURE, a former runaway slave, who upon the publication of the emancipation proclamation returned from the Spanish part of the island to assist and finally to lead his fellow freedmen against the invaders. TOUSSAINT was at first honored by the French and even made military governor, but afterwards fell under suspicion. In May, 1801, a constitution was promulgated by TOUSSAINT, which act was treated by Napoleon as rebellion. From this date began the struggle for independence which lasted nearly three years. In 1802, TOUSSAINT, RIGAUD, and other leaders were induced by LECLERC, the French commander, to surrender under guarantees. Faith was not kept by the French, and TOUSSAINT was sent as a prisoner to France, where he died. The blacks again arose under DESSALINES and CHRISTOPHE, and in December, 1803, the French abandoned the contest.

DESSALINES, on January 1, 1804, promulgated the declaration of Haitian independence and was himself proclaimed Emperor. He ruled until November, 1806, when he was assassinated. HENRI CHRISTOPHE was in the following month elected President under a new constitution establishing the Republic. He refused the presidency and proclaimed himself king with the title of Henri I. This led to civil war and a division of the country, Henri I ruling as king in the north and ALEXANDRE PÉTION as president in the south. PÉTION died in 1818 and was succeeded by JEAN PIERRE BOYER. Henri I committed suicide in 1820, and BOYER became President of the whole country. He extended his authority also over the Spanish end of the island, now the Dominican Republic. In 1844 the Dominicans threw off the yoke of Haiti and became independent. In 1853 FAUSTIN SOULOQUE reestablished the Empire with himself as Emperor Faustin I, but six years later, on January 15, 1859, FAUSTIN fled, and the Republic was once more established.

The present incumbent of the presidency is Gen. ANTOINE F. C. SIMON, inaugurated December 17, 1908.

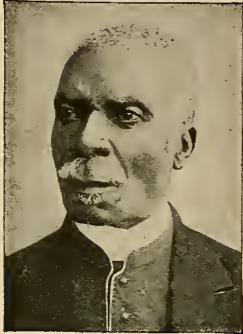


BUILDING AND GROUNDS OF THE "UNION CLUB" IN CAPE HAITIEN, HAITI.

CONSTITUTION AND GOVERNMENT.

The constitution of the Republic of Haiti was proclaimed on the 9th day of October, 1889, and by its provisions the unitary, republican form of government was adopted, the administration of which is vested in the legislative, executive, and judicial branches.

The Legislature is composed of two chambers, a Chamber of Representatives and a Senate, the two together composing a National Assembly. The Chamber of Representatives consists of 96 members, elected by the people for a term of three years, and the Senate of 39 members, chosen by the Representatives from lists furnished by a board of electors and by the President of the Republic, for a term of six years. The Senate is renewed by thirds every two years.



GENERAL ANTOINE F. C. SIMON,  
PRESIDENT OF HAITI.

A permanent committee of seven Senators is elected annually by the Senate to represent the National Assembly during recess and to prepare all unfinished business.

The President of the Republic is elected by the National Assembly for a term of seven years and can not be reelected except after an interval of at least one term. In case of death, resignation, or disability, the executive power rests in the Secretaries of State, acting as a body, who exercise authority until new elections can be held.

The cabinet consists of six Ministers or Secretaries of State.

The Supreme Court is the highest tribunal of justice. There are also five Courts of Appeals, one for each Department, a number of district and municipal courts and other tribunals of special jurisdiction.

INTERIOR GOVERNMENT.

The country is divided into five Departments, which are again divided into "*arrondissements*," these into "*communes*," and the latter into sections or districts. The Governor and other executive officers of the Department are appointed by the President of the Republic. The district and communal councils are elected by direct vote, the councils having charge of the financial administration of the commune or district and being consulted by the executive officer on all matters of importance.

The Departments of Haiti and their respective capitals are :

Department of the—	Capital.
North.....	Cape Haitien.
Northwest.....	Port de Paix.
Arbonite.....	Gonaives.
West.....	Port au Prince.
South.....	Les Cayes.

Port au Prince is the capital of the Republic.

President.....	Gen. ANTOINE SIMON.
Minister of Foreign Relations and Public In- struction .....	M. MURAT CLAUDE.
Minister of War and Marine.....	Gen. SEPTIMUS MARIUS.
Minister of Interior and Police.....	M. JEREMIE.
Minister of Finance and Commerce.....	M. CANDELON RIGAUD.
Minister of Justice and Religion .....	M. J. B. ARTAUD.
Minister of Public Works and Agriculture .....	PIERRE ANDRE.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The President receives a salary of \$24,000 per annum and the secretaries \$6,000 each.

## HAITI IN 1908.

The year 1908 was one of political unrest in the Republic. With the formal entry of Gen. ANTOINE F. C. SIMON into the executive office, by legislative action, in December, 1908, the country entered upon a new historical epoch. High tribute was paid the new President by the National Assembly in communicating the result of their electoral vote, and stress was laid upon the opportunities for patriotic service in the Republic.

The numerous concessions granted by the Government for the exploitation of railways and industries within the Republic indicate the efforts being made to develop the resources of the country. Many of the concessions are held by companies in the United States and much of the equipment and machinery furnished by American concerns.

### FINANCE.

In the budget law of the Haitian Government for the year 1908-9, approved May 11, 1908, by the Haitian National Assembly, the estimated receipts for the year were given as \$4,242,596.35 and estimated expenditures at \$4,234,478.59. Among the latter the public debt figures for \$1,906,714.84; foreign affairs, \$105,956.02; finance and commerce, \$199,581.68; public instruction, \$243,497.60; public works, \$156,148, and agriculture, \$56,372.

### COMMERCE.

The country's commerce for the Haitian fiscal year ending September 30, 1908, shows a total of \$8,180,008, composed of imports, \$4,701,160, and exports, \$3,478,848.

The commerce of the Republic with the United States, the principal country of origin for Haitian imports, for the year 1908 is marked by a substantial gain in imports, figuring for \$3,500,775 in

1908 as compared with \$3,145,853 in 1907, but exports to that country declined from \$1,220,420 to \$447,186.

Imports into the Republic in the first quarter of 1908-9 were valued at \$1,177,508 and exports at \$960,000.

The import commerce of the Republic for the first three months of the year 1907-8 amounted to \$1,577,317.17, distributed among the countries of origin as follows: United States, \$1,061,426.60; France, \$202,899.32; England, \$184,930.38; Germany, \$55,002.88; other countries, \$72,957.99. The imports of specie from the United States during the period amounted to \$281,000, as compared with \$227,550 in the same period of the preceding year, an increase of \$53,450.

The exports amounted to \$896,683.13, as compared with \$835,240.31 in the first quarter of the preceding year, or an increase of \$61,442.81.

France is the greatest market for Haitian products, receiving two-thirds of the total exports. Germany takes second place.

According to statistics recently published by the Chamber of Commerce at Port au Prince on the commerce of the Republic during the year 1906-7, the total amount of coffee exported amounted to 59,824,869 pounds, showing an increase of 2,155,832 pounds over the year 1905-6; of cacao to 4,829,737 pounds, an increase of 1,233,533 pounds over the preceding year; and cotton seed, a product in great demand, amounted to 7,909,960 pounds. In the export of wood, logwood figured for 114,458,880 pounds, an increase of 28,420,374 pounds. The exports of logwood roots decreased 4,702,956 pounds, the total exports amounting to 44,076,320 pounds, while exports of gaiac and yellow wood amounted to 9,393,369 and 44,000 feet, respectively, and the exports of mahogany to 30,195 feet. Exports of ox and cow hides amounted to 283,328 and goatskins to 289,370. Wax and honey figured in the exports for 182,998 pounds and 451,428 gallons, respectively, and gaiac gum and orange peel for 11,193 and 408,802 pounds, respectively.

Almost the entire coffee crop is shipped to Europe, although American consumption of the article is increasing, the same being true of Haitian cotton and cacao, the latter article showing a slight increase in production. Some attention has also been given to rubber planting. The production of sugar is increasing steadily, the home market being well supplied by native growers, although none of the manufactured product is exported. All machinery for the mills is bought in the United States, and, owing to the increasing production, importation of the refined article has fallen off.

Importations of dry goods from the United States continue to occupy first place, provisions and household articles coming principally from that country also. The financial depression of the past year was reflected in diminished purchases in foreign markets.



A commercial convention between the Republic and the German Government was promulgated August 25, 1908, under which reciprocal advantages are guaranteed upon certain specified products of both countries. Customs concessions were also granted upon certain items of import from the United States.

#### PRODUCTION AND INDUSTRIES.

The industries of the country are mainly agricultural, the most important product being coffee of excellent quality, but the export duty levied upon this article greatly hinders the development of this branch of industry. The estimated area in the Republic devoted to coffee is placed at 125,000 acres, the plant having been introduced into the country some two hundred years ago. The period of production of each plantation is estimated to be about twelve years. Climatic and soil conditions are wonderfully favorable to the exploitation of the industry, and exports to the amount of 100,000,000 pounds annually were formerly made by Haitian growers. At present shipments do not total more than half of that amount.

Cacao is also grown extensively, the output for 1908 figuring for 6,000,000 pounds, and cotton is exported in increasing quantities. Of the cotton grown in Haiti the fiber is not so long as that of the United States, although this is a condition that could be improved by proper seed selection and cultivation. Cheap lands and cheap labor make this branch of industry an attractive and remunerative one if undertaken on a large scale.

The culture of pite (American agave) has been taken up. The cultivation of tobacco is extending and the manufacture of cigars and cigarettes has been successfully engaged in.

The soil of the country is well suited for tobacco growing. Only a small quantity of this article is raised, however. One plantation, conducted on scientific principles, is producing tobacco of a fine grade.

There are numerous sugar plantations in the country but no refineries. Rum and other spirits are distilled but not imported. Log-wood is the most important of the many valuable woods shipped from the Republic. Soap, candles, and matches are manufactured in the country, while three-fourths of the meat consumed comes from the Dominican Republic. The production of sisal hemp, the bulk of which goes to the United States, has declined recently.

The building of the proposed railroads will open to commercial, agricultural, and industrial activity the richest part of the country, which hitherto has been of no benefit to the Republic, because it was inaccessible except by pack animals. Part of the territory which will be opened by these railroads is covered by forests of the best cabinet and dye woods. Good pasturage abounds on the plateaus of

the interior, and on the plains are rich agricultural soils with healthful climate suitable for the growing of cereals and cotton, while in the vicinity of Cape Haiti, Ounaminthe, and Port au Prince are rich banana and sugar soils. The new land thus brought within the practical range of the markets is plentiful and cheap, and labor at moderate wages may be secured without difficulty, offering an inviting field for capital.

The mineral resources of the Republic, consisting of gold, silver, copper, iron, antimony, tin, sulphur, coal, kaolin, nickel, gypsum, and limestone, are as yet undeveloped. Remains of an ancient gold mine have recently been discovered near Ouanminthe on the Dominican frontier and iron deposits are known to exist in the same locality, while at Fort Dauphin and in the Limonade district, respectively, deposits of copper and iron oxide have been discovered. Near Lescahobes considerable outcroppings of soft coal are reported and at Camp Perrin, some 7 leagues inland, there is a coal mine showing numerous rich veins. In the vicinity of Jacmel there are copper and silver deposits which have never been worked, and at Terreneuve, distant about four hours' travel from Gonaives, a copper mine is in exploitation by a syndicate of Haitians of German descent.

It is the policy of the Government to aid so far as possible enterprises having for their object the development of the agricultural and industrial resources of the nation, and with this purpose in view a concession was recently granted to encourage the development of the textile industry in the Republic. The grantee secures for a term of forty years the right to gather textile plants growing on public lands, leased to him at a low rental. The raw material indispensable in running the machinery of the factory, such as coal, kerosene, and lubricating oil, will be admitted free of duty. The grantee agrees to pay into the National Treasury \$2 gold on each ton of product exported.

The manufacture of shoes within the Republic has reached a point where the output is nearly sufficient to meet the needs of the home market, with the result that importations of foreign shoes have almost entirely ceased within the past eight years. Previous to that period nearly all of the finer grades of shoes for men, women, and children were imported from France, the United States furnishing some of the cheaper grades for women. One of the largest establishments of this kind in the Republic employs all Haitian workmen, the proprietor superintending the cutting and fitting. The tannery in connection with this plant furnishes employment to some 200 hands, all of whom are Haitians with the exception of the proprietor.

The chrome and combined dyes are all imported from the United States, although the bark used by the smaller tanneries, of which

there are many, is the mangrove, native of the country, and which is considered to possess fine tanning qualities. Difficulty is found in obtaining the native bark in sufficient quantity, which necessitates the importation of oak bark from the United States. Due to the fact that the supply is limited, the price for raw hides is nearly on a par with that in the United States. Goat, calf, and sheep skins are plentiful at low prices.

The Government has recently revised the law relating to taxes imposed upon those exercising professions or engaged in commerce in the Republic.

#### COMMUNICATION.

Among the more important Government measures, and which bear directly upon the development of the country, are to be mentioned the numerous railroad concessions which have been granted to connect Gonaives with Hinche (open as far as Passarelle), Cape Haitien with Port au Prince, Ganthier with Fonds Parisien, Port au Prince with Leogane, Leogane with Aux Cayes, Cape Haitien with Ouane-minthe, and Aux Cayes with Perrin. The line from Aux Cayes to Perrin,  $17\frac{1}{2}$  miles in extent, has been contracted for. There is at present a line of railway from Cape Haitien to Grand Riviere, a distance of 15 miles, from which point a line will be constructed to Port au Prince. A light railway has been constructed from Port au Prince to Lake Assuel, a distance of 28 miles, this railway being intended ultimately to connect the capitals of Haiti and the Dominican Republic. Port au Prince has 5 miles of tramway.

#### STEAMSHIPS AND WATERWAYS.

The Republic of Haiti has eleven ports, viz, Port au Prince, the capital of the Republic and the trade center, Cape Haitien, Port de Paix, Gonaives, situated on the great bay of the same name, St. Marc, Petit Goave, Miragoane, Jeremie, Aux Cayes, Aquin, and Jacmel.

Haiti can be reached from New York by the Atlas Line steamers, which sail every two weeks and call at most of the ports of Haiti, or by the Royal Dutch West India Mail, sailing every two weeks and calling at the Haitian ports of Port au Prince, St. Marc, Petit Goave, Aux Cayes, and Jacmel. The time employed between New York and Port au Prince is six days, first-class passage being \$60, while the fare to the other ports is either higher or lower according to the distance, ranging between \$50 and \$70.

Among the numerous rivers of Haiti the Artibonite, the Trois-Rivieres, and the Grande Anse are the most important. The Artibonite, the largest stream on the island, is navigable for some 100 miles and forms an important waterway, a regular line of steamers

(*Compagnie fluviale de l'Arbonite*) plying between Grande Saline, at its mouth, and the interior. The other rivers, owing to their swift currents, are not navigable. Lake Etangsale, 22 miles long and 60 miles wide, is the largest of the lakes and is navigable.

A number of small islands belong to the territory of the Republic of Haiti, La Gonaives, in the bay of the same name, about 40 miles long, La Tortue, near Port de Paix, 22 miles long, La Saona, about the same size as La Tortue, Alta Vela, Les Caimites, and a number of smaller islands.

#### POSTS AND TELEGRAPHS.

The Republic became an adherent of the Postal Union in 1880. There are in operation 31 post-offices, and the principal towns are connected by a system of telegraphs. A cable connects with Cuba, the Dominican Republic, and South America.

A concession conveying the exclusive right for the operation of wireless telegraphy in the Republic was granted July 15, 1908, to run for fifty years from October 1 of that year and subject to renewal at the option of the contracting parties. The grantees were allowed a further interval until April 1, 1909, for beginning the work of installation under the franchise.



# HONDURAS

Honduras, the third largest of the Central American Republics, lies between the Caribbean Sea and the Gulf of Honduras, the Republic of Nicaragua, the Pacific Ocean (Gulf of Fonseca), and the Republics of Salvador and Guatemala, extending from longitude  $83^{\circ} 20'$  to  $89^{\circ} 30'$  west, and from latitude  $13^{\circ} 10'$  north to  $16^{\circ}$  north, with a seacoast of more than 400 miles. It has an area of 46,250 square miles, equal to that of Pennsylvania and Rhode Island, with a population estimated at 745,000, or 16.1 per square mile.

The territory of Honduras is mountainous throughout and resembles that of Costa Rica, with a similar diversity of climate, soil, and products. Its large and fertile plateaux and valleys, among them the plain of Comayagua, 40 miles in length, produce nearly all the tropical fruits and offer excellent pasturage for numerous herds of cattle. The forests contain several varieties of cabinet and other woods, of which mahogany is the most important. Bananas are an important article of export, coffee, cacao, coconuts, india rubber, indigo, precious metals, and other mineral products being also shipped. Honduras is the country of the sarsaparilla, the product of the *smilax medica*, of which considerable quantities are annually exported to the United States.

## HISTORICAL SKETCH.

When COLUMBUS, on his fourth and last voyage, discovered on August 14, 1502, what is now known as "Cape Honduras," he founded the town of Trujillo, on the bay of the same name. Several years later the country was explored by PEDRO DE ALVARADO and CRISTOBAL DE OLID, two of CORTEZ's lieutenants, who were successful in subduing the native Indians, the warlike Caribs and Sambos, but it was not until CORTEZ himself, in the year 1524, after having conquered Mexico, came to Honduras, that the country was finally brought under Spanish rule. It was subsequently made a part of the captain-generalcy of Guatemala, comprising all of the territory formerly under the control of the Quiché Kingdom of Guatemala.

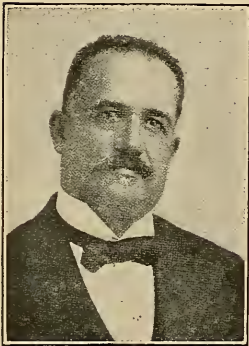
Honduras, together with the other Spanish countries of South and Central America and the West Indies, suffered numerous attacks from the French, British, and Dutch buccaneers during the sixteenth and seventeenth centuries. The famous pirate, FRANÇOIS L'OLONNOIS, for a time in the year 1660 held possession of the country.

In the eighteenth century the Sambos, or Misskiti, Indians retired to what is now known as the "Mosquito Coast," and having, with

the aid of British settlers, defeated the Spanish forces, they applied to Great Britain for protection. This was granted, and in the year 1740 British forces occupied the Mosquito Coast. By agreement with Spain in 1786 there was a readjustment of British territory to include parts of Yucatan and Honduras, now known as "British Honduras," or Belize.

The great wave of emancipation which swept over the American continent early in the nineteenth century found its echo in Central America. On September 15, 1821, the independence of the States comprising the Kingdom of Guatemala was declared in Guatemala City. This revolution was accomplished without bloodshed, owing to the fact that the Governor-General, GABINO GAINZA, supported the movement.

The history of Honduras is closely interwoven with that of the other Central American States from this date on, it being part of the Mexican Empire with them during the year 1822 and subsequently, upon the downfall of the Empire of Iturbide, one of the States of the Central American Federation.



GENERAL MIGUEL R. DÁVILA,  
PRESIDENT OF HONDURAS.

Honduras, as early as July 1, 1824, adopted an independent constitution, which, however, recognized the federation.

On October 28, 1838, Honduras finally declared its secession and absolute independence from the other States. Three *consejeros*, FELIPE MEDINA, JOSÉ ALVARADO, and LINO MATUTE, exercised the executive authority for a time, until in the year 1839 JOSÉ M. BUSTILLO was appointed President *ad interim* and FRANCISCO FERRARA elected President. On January 1, 1841, he was inaugurated as the first constitutional President of Honduras.

The present Executive, Gen. MIGUEL R. DÁVILA, assumed provisional charge of the presidency April 18, 1907, and became President early in the following year.

#### CONSTITUTION AND GOVERNMENT.

When Honduras seceded from the Central American Federation, it adopted the unitary, republican form of government; the Constitution expressly providing, however, that the said instrument shall by no means bar the Republic from again becoming a State of the Federation and that the Constitution may at any time, for that purpose, be abolished or amended by Congress.

The usual division of the Government into legislative, executive, and judicial branches is retained; the first named being composed of a single chamber of 42 members, elected by direct vote for a term of four years.

The President and Vice-President are also elected by direct vote for a term of four years and may not be reelected for the next consecutive term. All citizens over 21 years of age, or over 18 years of age if married, and who can read and write are entitled to vote, suffrage being not only universal but compulsory.

A cabinet of six Ministers, or Secretaries of State, appointed by the President, but responsible to both the President and Congress, assists in the administration of the Government.

The Supreme Court is the highest tribunal of justice in the country. It is composed of five justices, who meet in the capital, Tegucigalpa, and are elected by popular vote for a period of four years. A number of minor justices are appointed by the Supreme Court. Justices of the peace are elected by popular vote.

#### INTERIOR GOVERNMENT.

The Republic of Honduras is politically divided into sixteen Departments and one Territory, which are again divided into districts. The administration of the Department is in the hands of a Governor appointed by the President. Municipal councils are elected by direct vote of the people.

The Departments and their respective capitals are:

Department of—	Capital.
Tegucigalpa.....	Tegucigalpa. <sup>a</sup>
Comayagua.....	Comayagua.
Cortes.....	San Pedro Sula.
Santa Barbara.....	Santa Barbara.
Copan.....	Santa Rosa.
Gracias.....	Gracias.
Intibuca.....	La Esperanza.
La Paz.....	La Paz.
Valle.....	Nacaome.
Choluteca.....	Choluteca.
El Paraiso.....	Yuscaran.
Olancho.....	Juticalpa.
Colon.....	Trujillo.
Yoro.....	Yoro.
Atlantida.....	La Ceiba.
Islas de la Bahia.....	Roatan.

The Territory of Mosquitia, although the second largest territorial division, is but sparsely inhabited and but little explored, being

<sup>a</sup> Also capital of the Republic.

covered with dense, impenetrable forests. The largest Department is that of Olancho, with about 12,000 square miles.

President.....	Gen. MIGUEL R. DÁVILA.
Minister of Foreign Affairs.....	Dr. JOSÉ MARÍA OCHOA VELASQUEZ.
Minister of Government, Justice and Fomento.....	Dr. MARCOS CARÍAS.
Minister of Public Instruction and Agriculture.....	Dr. VICENTE MEJÍA COLINDRES.
Minister of War.....	Gen. RAFAEL LOPEZ G.
Minister of the Treasury and Public Credit...	Dr. ROSENDO CONTRERAS.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The President is allowed a salary of 24,000 *pesos* per annum, equivalent to \$9,600 gold.

## HONDURAS IN 1908.

Upon the accession, early in 1908, of President DÁVILA to the office of Chief Executive of the Republic, the policy of the administration manifested itself in the appointment of officials of high personal attainments and a cordial invitation to capital and immigration of the better class to enter the country, with the assurance that every economic opportunity compatible with the welfare of the country would be afforded.

General conditions for the year showed a progressive movement, imports for the fiscal year 1907-8 being \$500,000 in excess of the preceding twelve months, and although government statistics indicated a slight decline in export valuations, shipments to the United States alone figured for nearly \$3,000,000 in the calendar year 1908. Works of public improvement were undertaken and commercial treaties entered into in furtherance of trade development.

Tariff rates remained the same, but from August 1, 1909, modifications of certain duties were decreed. Exchange for the year averaged for the United States, 155 per cent; London, 153; Paris, 151; and Hamburg, 149.

Various concessions were granted for railroad construction and the exploitation of the natural resources of the country, so that while on the whole the year showed no remarkable economic gains the outlook for the future is promising.

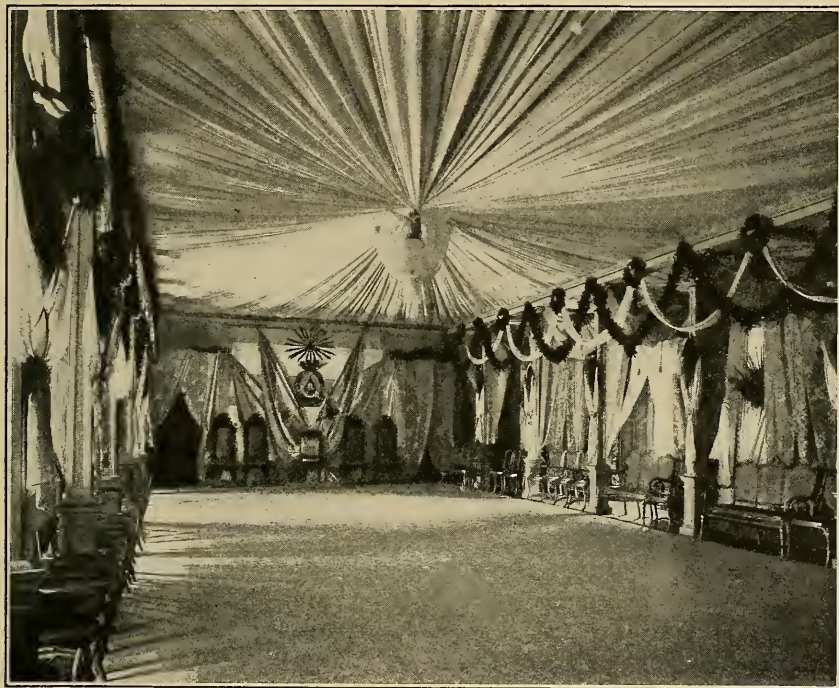
In accordance with the convention of Washington, signed December 20, 1907, the First Central American Congress met in Tegucigalpa on January 1, 1909, and closed its sessions on the 21st of the same month.

The Pan-American Committee to prepare for the participation of the Republic in the Fourth Conference, to be held in Buenos Aires in 1910, was appointed in conformity with the resolution adopted August 13, 1906, at the Third Conference, held in Rio de Janeiro.



## FOREIGN AFFAIRS.

On March 24, 1908, a postal convention was celebrated in the City of Mexico between Mexico and Honduras, which was ratified by the Congress of the Republic on May 27, 1908, and promulgated by the President on May 29 of the same year. Other conventions and treaties acted upon during the year included a treaty of friendship, commerce, and navigation with Mexico, and a convention on naturalization with the United States. A treaty of commerce, subject to



BALL ROOM, GOVERNMENT PALACE, TEGUCIGALPA, HONDURAS.

State balls are held in this apartment. Tegucigalpa, founded in 1579, was made the capital of the Republic in 1880.

the ratification of the Congresses of the respective nations, was, on November 4, 1908, entered into with the Government of Nicaragua, by the terms of which the national and agricultural products and domestic manufactures of the two countries, with the exception of those subject to government monopoly, enjoy reciprocal free entry, special provisions being made for the free exchange of live stock between the two countries. The treaty will remain in force for ten years from the date of the exchange of ratifications.

## FINANCE.

The revenues of the Government from all sources for the fiscal year 1907-8 amounted to \$3,442,476 and disbursements to \$3,391,965. The total debt of the country on July 31, 1908, was placed at \$1,500,000.

During the year 1908 the Government granted a concession to an American syndicate for the establishment of a bank with branches throughout the Republic. This proposition was satisfactorily financed and branches opened at various points.

The Government, with a view to initiating certain economic reforms, has appointed a commission to make a careful study of the system of weights and measures, custom-houses, currency, and other fiscal matters as compared with those of other countries. On January 20, 1909, the delegates of the Governments of the Central American Republics entered into a convention to unify their monetary system, customs duties, weights and measures, fiscal laws, and consular service.

## COMMERCE.

Import values for the fiscal period ending July 31, 1908, amounted to \$2,829,979, as compared with \$2,331,398 for 1907; while exports for the two years amounted to \$1,834,060 and \$2,012,407, respectively. On the trade lists of the Republic the following countries figured in the allotment of export values in the order of their importance: United States, \$1,591,351; Germany, \$90,160; Salvador, \$54,399; British Honduras, \$33,040; Great Britain, \$32,131; Guatemala, \$12,320, and Cuba, \$12,096; and of imports as follows: United States, \$1,878,942; Great Britain, \$339,746; Germany, \$248,650; British Honduras, \$108,735; France, \$97,540, and Italy, \$15,038.

The classification of exports includes vegetable products valued at \$1,050,420; minerals, \$578,939; animal products, \$197,135, and manufactures, \$7,516. In the third class, hides, cattle, cheese, deerskins, and mules were the leading articles, while under the classification of vegetable exports, bananas to the value of \$768,508 took first rank with coffee, coconuts, mahogany, rubber, sarsaparilla, and woods following in the order named. From May 1, 1908, the exportation of coffee from the country was declared free of fiscal and municipal taxation.

Under the head of minerals, cyanide products figured for \$204,862; ore, for \$167,360; coined silver, \$98,280; silver in bars, \$85,912, and gold, \$18,360. Straw hats were the leading item under manufactured exports to the value of \$3,949, other articles figuring to a lesser amount.

## PRODUCTION AND INDUSTRIES.

The agricultural possibilities of the country are extensive. Cacao, cotton, sugar cane, coffee, tobacco, and other tropical and subtropical products can be grown in immense quantities and of the finest quality, while the forests supply abundant timber, pitch pine, and dyewoods and the uplands furnish excellent pasture. On the lowlands on the Atlantic side banana culture is increasing, and in the more temperate climate offered by the table-lands in the interior cereals, fruits, and vegetables of the more northern latitudes can be grown readily. Due to unfavorable climatic conditions in 1908, the output of bananas dropped to 4,310,538 bunches, as compared with over 5,000,000 in the years 1906 and 1907. Concessions covering nearly 30,000 acres of the public domain to be given over to the further exploitation of the banana industry were granted during the year, and enterprises looking to the commercial utilization of balsam and chicle were undertaken with grants from the Government. The interest of the Government in the tobacco industry was also evidenced by the establishing of a practical school for its cultivation in the District of Danli. The output of this province is noted for its delicate flavor and, when properly cured, the rich coloring of the leaf.

The opening of the Ulua was followed by renewed activity in that district, seven large American companies and innumerable planters being at work, while some large transactions, including operations in timber, pine, and turpentine by capitalists from the United States, were reported.

During 1908 an arrangement was effected with interests in New Orleans to supply that market with Honduras cattle, but the same has not become effective pending an adjustment of the sanitary regulations prohibiting the importation of cattle from Central America.

Mining operations for the year 1908 were signalized by the location of valuable deposits at Minas de Oro, Macuelizo, and within 12 miles of San Pedro de Sula.

The Rosario property, which is said to be the best in the country, has yielded over \$12,000,000 worth of ore, and with the application of modern methods it is confidently predicted that the output of this and other properties can be largely increased. The plant was first constructed to treat ores by pan-amalgamation; later the treatment was changed to concentration and amalgamation, and now the cyanide process is used, the company claiming a 96 per cent extraction.

It is a well-known fact that gold, platinum, silver, copper, iron, lead, zinc, tin, quicksilver, and more or less coal of varying quality occur in Honduras and that they have never been adequately exploited. Gold is found in either quartz veins or alluvial deposits.

The most important gold mines are on the south coast of the country, several good prospects being only a few miles from the sea.

Silver ores are found in all the Departments, occurring in quartz veins carrying sulphides, galena, and zinc-blende, with some gold values; in blanket veins carrying free silver with small quantities of sulphides, but with no gold values; and in lead-zinc veins, mostly blanket with some sulphides and no gold values. There are also deposits of antimony and lead carbonates carrying silver in the ratio of 20 to 40 ounces to the ton, with no gold values. Despite the fact that copper lode formations are not currently supposed to exist in



SORTING GOLD ORE IN HONDURAS.

Gold-bearing ore is found in many parts of the country, and placer mining along the rivers of the Atlantic Coast has been carried on for many years.

Honduras, outcrops and old works have been found in several of the Departments.

Deposits of iron ore have been worked to a very limited extent, although the existence is reported of an extensive area of magnetite of fine quality. All of the lead ores are worked for their silver content, and though platinum finds have been reported the pure metal has not been discovered. Antimony and lead carbonates are found in some of the Departments, but owing to the difficulty in extracting the silver values little attention has been paid to them. Record of

a rich cinnabar vein in the Department of Comayagua was made during the Spanish occupation, but no further exploitation has been carried out. A large vein of bismuth has been exposed in the Department of Tegucigalpa. No coal mining has been done, and the application of modern methods to the mining industry of the country is as yet very limited.

The denouncement of a mining claim may be made by any individual to a zone to the extent of 1,000 hectares, which, six months afterwards, is measured and taxes paid upon it for the first year amounting to 50 cents silver per hectare. Free entry through the customs is granted for all needful equipment, freight destined for the mines being introduced by way of Amapala.

As yet the mineral and agricultural resources of the Republic have not been adequately developed, due to lack of proper means of communication.

#### COMMUNICATION.

During the first year of the administration of President DAVILA the Government devoted much attention to the transportation question, which involved the settlement of the foreign debt, the extension of the transcontinental railroad to the Pacific side, and the building of some 71 miles of new road across the Republic to constitute the Honduras link in Pan-American road.

Various concessions were granted for the navigation of rivers and contracts let for the construction of railway lines on the Atlantic coast, the most important of which was the contract for the building of a railway from Trujillo Bay to Juticalpa, with a branch line to Tegucigalpa. The enterprise has been incorporated into a stock company with a capital of \$10,000,000. The road when completed will be about 350 miles in length, of standard gauge, modern equipment, and rolling stock of United States manufacture. It will include, in addition to the main route, branches to many interior cities, thus giving communication and transportation facilities to a practically virgin territory. The section to be penetrated is reported rich in gold, silver, and other minerals, and hard woods. The harbor facilities at Trujillo, the terminal of the line, provide ample facilities for the increased traffic to result from the line.

The railway from Puerto Cortez to La Pimienta, 57 miles in length, has been leased, subject to the approval of Congress, and the lease of the wharf at Puerto Cortez has been extended.

Among the railway contracts recently approved by the Government are the following: A standard-gauge line, 80 kilometers in length, in the Department of Atlantida, from Puerto Sal or Tela to the shores of the Camayagua River, the sum of \$7,000 gold to be deposited as a guaranty for the fulfillment of the contract; a line

in the Department of Cortes from the Bay of Omoa for a distance of about 70 kilometers to a point on the River Cuyamel and along the Chamelecon Valley; a contract with the Squire Syndicate and Corporation of Foreign Bondholders for the repair and conclusion of the Interoceanic Railway and amortization of the foreign debt of the country; and a line of railroad from Cola on Lake Quemada to Puerto Sal, on the Atlantic coast of Honduras. Early in 1908 the Vaccaro Company, of New Orleans, completed and opened to public traffic the first 32 miles of road they have been constructing into the banana lands near Ceiba.

With a coast line of over 400 miles on the Atlantic seaboard Honduras affords ample opportunities for commerce and navigation, while on the Pacific coast the Gulf or Bay of Fonseca gives access to the largest ocean-going vessels. The principal port of Honduras on the Atlantic side is Puerto Cortes, other ports of minor importance being La Ceiba, Omoa, Roatan, and Trujillo, while on the Pacific side the largest is Amapala, on Tigre Island. San Lorenzo and La Paz are smaller ports on the Bay of Fonseca.

The United Fruit Company's steamers leave New Orleans for Puerto Cortes every Thursday, making the run in five days, first-class passage being \$30; the Hubbard-Zemurray Steamship Company has regular weekly sailings from Mobile, Alabama, for the same port, and the Central American Steamship Company from both of these ports, first-class passage on any of these steamers being \$30. The United Fruit Company has also a line of steamers plying between Mobile and Ceiba, sailing from the former port every Saturday.

The Pacific ports may be reached either via San Francisco or Panama, the Pacific Mail Steamship Company's steamers calling regularly at Amapala, as do also the Kosmos Line steamers, making the run from San Francisco in from twenty to twenty-two days, first-class passage \$105. With the Panama Railroad Company's steamers from New York to Colon, thence across the Isthmus and from Panama to Amapala by the Pacific Mail Steamship Company, the trip can be made in sixteen days at a cost of \$120.

A line of coastwise steamers maintains a regular service between the ports of Honduras and other Central American and Cuban ports.

Of the numerous rivers of Honduras the Chamelecon, Ulua, Lean, Aguan, Tinto, Patuca, Wanks or Segovia, Choluteca, Nacaome, and Goascoran are the most important, being more or less navigable, and some of them forming important means of communication and transportation. The Government of Honduras is giving considerable attention to the development of these natural transportation routes and has given various concessions for the building of railway lines connecting points along the rivers.

A regular line of steamers plies on the Ulua River for a distance of 125 miles, from its mouth to Progreso, owned and operated by the Monte Vista Steamboat Company. The Aguan, Negro, Patuco, and Segovia are navigated by vessels of light draft for short distances.

The principal lake of Honduras is the Yojoa, which is 25 miles in length by 6 miles wide and is navigable for steamers. It communicates with the Ulua River by means of its tributary, the River Blanco, thus giving water communication between the coast and the interior, the mouth of the Ulua River being not far from Honduras's principal port, Puerto Cortes.

By a decree of May 12, 1908, the exclusive right of navigation on Lake Yojoa was granted to an American. At Puerto Cortes the harbor works and the reclamation of the lowlands has been undertaken by an American syndicate. This work when completed will place Puerto Cortes in the front rank of Caribbean ports, and it is the plan of those having the work in charge to erect a first-class hotel and place the city on the itinerary of high-class tourist travel.

The Government is devoting particular attention to the construction of wagon roads and bridges and to the upkeep of those already established, while it has at different times financially assisted the different municipalities in the construction of roads within their own limits.

There are 2,840 miles of telegraph line in the Republic and 188 offices. The telephone companies operate 100 miles of line and 95 stations in the capital and other towns.

On December 19, 1908, the President of the Republic approved the contract for the erection of a wireless telegraph station in the neighborhood of Tegucigalpa and various substations along the coast of the Republic. Work under the contract is to be begun within six months from the date of its execution and completed within a year. The existing telegraph lines have been extended by the Government and a school of instruction in telegraphy for both sexes opened.



# MEXICO

The United Mexican States (*Estados Unidos Mexicanos*) form the third largest of the American Republics as regards population and fourth largest as regards territory, having an area of 767,000 square miles and a population of 13,607,260, or 17.7 per square mile. Situated between the United States of America, the Gulf of Mexico and the Caribbean Sea, British Honduras, the Republic of Guatemala, and the Pacific Ocean, Mexico extends from latitude 14° 30' 42" to 32° 42' north and from longitude 86° 46' 8" to 117° 7' 31" west of Greenwich.

Two mountain chains traverse the entire territory, forming between them a number of valleys and mesas or plateaux of various altitudes. That of Anahuac, on which is situated the capital of the Republic, is the largest and most important.

The varying altitudes as well as its situation, partly in the tropical and partly in the Temperate Zone, give to Mexico a diversity of climate and products. Its mineral wealth in silver and gold, copper, and lead is proverbial. The extensive forests, both of the lowlands, the *tierras calientes*, and of the mountain country are among the most valuable assets of the country. These contain in abundance woods suitable for building, for cabinet making, dyewoods, and medicinal plants. The rubber-producing *castilloa* is also found in considerable quantity in the low coast lands. Chicle, used so extensively in the manufacture of chewing gum, is a Mexican product.

In addition to its mineral exports, henequen, coffee, tobacco, cacao, vanilla, and sugar are exported in large quantities. Cotton, which is largely grown, is consumed in the domestic mills which, in addition, import cotton from the United States.

## HISTORICAL SKETCH.

Prior to the coming of HERNAN CORTES, the Mexican conqueror, DON DIEGO VELASQUEZ, Governor of Cuba, had in 1517 sent FRANCISCO HERNANDEZ DE CORDOVA and JUAN DE GRIJALVA to explore the Mexican coast. The reports received by the Governor were so favorable that CORTES was sent to make a conquest of the country. He landed first on April 12, 1519, on the little island of Ulua in the harbor of Veracruz. From this point, with the powerful aid of tribes hostile to the Aztecs, he gradually succeeded in conquering the country, and by force and treachery made himself master. The great Aztec Empire was destroyed by the invaders, its emperors MONTEZUMA II and the heroic CUAHTEMOC perished, and the Indians were enslaved and forced to exploit the mines and other natural resources for the benefit of the conquerors.



HERNAN CORTES was appointed Governor of New Spain, as it was then called, in the year 1522, but was soon recalled and succeeded by another Governor, and in the year 1535 the viceroyalty of New Spain was created, including all of the Spanish possessions in North and Central America, DON ANTONIO DE MENDOZA being appointed viceroy.

New Spain was successively governed by 62 viceroys, the last being DON JUAN O'DONOJU, who withdrew in the year 1821.

A Mexican priest, DON MIGUEL HIDALGO Y COSTILLA, was the leader of the movement for independence. On September 16, 1810, he issued what is known as "*El grito de Dolores*," and subsequently succeeded in gaining several victories over the Royalists. He was finally defeated and executed on July 30, 1811. The patriotic cause was taken up by others, among them another priest, DON JOSÉ MARIA MORELOS, who was likewise executed on December 22, 1815. General ITURBIDE, who was to finally decide the struggle in favor of the patriots, entered the City of Mexico on September 27, 1821, at the head of the patriot army. Here was evolved what was known as "the plan of Iguala," whereby a King was to be elected for Mexico. To this plan the Viceroy O'DONOJU agreed.



GENERAL PORFIRIO DIAZ, PRESIDENT  
OF MEXICO.

In the meantime a congress of Mexican patriots at Chilpancingo, on November 6, 1813, had formally declared the independence of Mexico from Spain.

Under the plan of IGUALA, General ITURBIDE was elected Emperor of Mexico, and on July 21, 1822, was crowned at the City of Mexico, adopting the title of AGUSTIN I. The Empire was but short lived. Gen. ANTONIO LOPEZ DE SANTA ANA proclaimed the Republic on December 6, 1822, and the Emperor was forced to abdicate on March 19, 1823, and to leave the country. Upon his return, in the year following, he was sentenced to death and executed at Padilla on July 19, 1824.

Gen. GUADALUPE VICTORIA became the President of the Republic on October 10, 1824. In 1829 Spain sought once more to regain control of her former possession, and landing a strong force at Tampico, in July, 1829, marched to the capital. The Spaniards were, however, completely routed by the patriots on September 10 of the same year, and on December 28, 1836, Spain finally recognized the Republic.

In 1836 Texas seceded from the Mexican Union, and defeating the Mexican troops under SANTA ANA on April 21, 1836, established the Independent Republic of Texas, which in December, 1845, was admitted to the Union of the United States of America. This led to the war with the United States in April, 1846, which was finally

settled by the treaty of Guadalupe of February 2, 1848, whereby the United States of America acquired all the territory belonging to Mexico north and east of the Rio Grande for the sum of \$15,000,000.

The intervention of the European powers, France, England, and Spain, occurred in 1862, during President JUAREZ's term, and resulted in the establishment of the Mexican Empire by NAPOLEON III, who placed the Austrian Prince, MAXIMILIAN, upon the throne of Mexico. He was crowned on June 12, 1864, but being deserted by NAPOLEON he was finally defeated and executed at Queretaro, together with his generals, MIRAMON and MEJÍA, June 19, 1867.

DON BENITO JUAREZ then served as President till his death, July 18, 1872, and was succeeded by SEBASTIAN LERDO DE TEJADA, who, in 1877, was succeeded by President PORFIRIO DIAZ, now serving his seventh term as President of the United Mexican States. President DIAZ's term will expire November 30, 1910.

#### CONSTITUTION AND GOVERNMENT.

The Constitution of the Mexican Republic, adopted February 5, 1857, provides for a republican, representative, federal form of government, similar to that of the United States, the various States of the Union being free to regulate their internal affairs. The National Government is vested in the legislative, executive, and judicial branches.

The National Congress is composed of the Senate and Chamber of Deputies, the former consisting of 56 members, two for each State and the Federal District, elected indirectly for a term of four years, one-half of the Senate being renewed every two years. Deputies are elected in a like manner, but for a term of two years, at the rate of one deputy for every 40,000 inhabitants or fraction exceeding 20,000.

A permanent committee consisting of 15 Deputies and 14 Senators represents Congress during recess and is consulted by the President on all matters affecting legislation.

The President and Vice-President of the Republic are chosen by electors for a term of six years, the President being assisted by a Cabinet of 8 Ministers, or Secretaries.

A Supreme Court, 3 circuit courts, and 32 district courts comprise the national judiciary. The Supreme Court justices, 11 in number, are elected by indirect vote of the people for a term of six years and receive a salary of \$5,000 each per annum.

Mexico is divided politically into 27 States, 3 Territories, and 1 Federal District. Governors of the States are elected in the same manner as the President of the Republic, as are also the legislatures and the judiciary of each State. The Territories are administered by a Governor appointed by the President of the Republic, while the Government of the Federal District is in the hands of three officials, likewise appointed by the President.

<b>MEXICO</b> 1,900. POPULATION -13,607,259 -							
		<b>CHIHUAHUA</b> 89,974 - SQ. MILES	<b>SONORA</b> 76,619 - SQ. MILES	<b>COAHUILA</b> 63,728 - SQ. MILES	<b>LOWER CALIFORNIA</b> 58,328 - SQ. MILES	<b>DURANGO</b> 42,265 - SQ. MILES	<b>OAXACA</b> 35,382 - SQ. MILES
		<b>27 - STATES          &amp; TERRITORIES          AND THE          FEDERAL DISTRICT</b>					

<b>YUCATAN</b> 35,203 - SQ. MILES	<b>JALISCO</b> 33,496 - SQ. MILES	<b>TAMAULIPAS</b> 31,789 - SQ. MILES	<b>VERACRUZ</b> 29,285 - SQ. MILES	<b>SINALOA</b> 27,552 - SQ. MILES	<b>CHIHUAHUA</b> 27,222 - SQ. MILES	<b>GUERRERO</b> 24,995 - SQ. MILES	<b>ZACATECAS</b> 24,457 - SQ. MILES
<b>SAN LUIS POTOSI</b> 24,000 - SQ. MILES	<b>NUEVO LEON</b> 23,678 - SQ. MILES	<b>MICHOACAN</b> 22,656 - SQ. MILES	<b>CAMPECHE</b> 18,086 - SQ. MILES	<b>PUEBLA</b> 12,203 - SQ. MILES	<b>TEPIC</b> 10,951 - SQ. MILES	<b>GUANAJUATO</b> 10,948 - SQ. MILES	<b>TABASCO</b> 10,072 - SQ. MILES
<b>MEXICO</b> 8,849 - SQ. MILES	<b>HIDALGO</b> 8,575 - SQ. MILES	<b>QUERETARO</b> 4,492 - SQ. MILES	<b>AGUASCALIENTES</b> 2,958 - SQ. MILES	<b>MORELOS</b> 2,735 - SQ. MILES	<b>COLIMA</b> 2,172 - SQ. MILES	<b>TLAXCALA</b> 1,524 - SQ. MILES	<b>FEDERAL DISTRICT</b> 579 - SQ. MILES

<b>JALISCO</b> 1,153,391	<b>GUANAJUATO</b> 1,061,724	<b>PUEBLA</b> 1,021,183	<b>VERACRUZ</b> 981,030	<b>OAXACA</b> 948,633	<b>MICHOACAN</b> 935,808	<b>MEXICO</b> 932,463	<b>HIDALGO</b> 605,051	<b>S. LUIS POTOSI</b> 575,472	<b>FEDERAL-DISTRICT</b> 541,516	<b>GUERRERO</b> 479,205	<b>ZACATECAS</b> 462,190	<b>DURANGO</b> 370,294	<b>CHIAPAS</b> 360,799	<b>NUEVO LEON</b> 327,937	<b>CHIHUAHUA</b> 327,784	<b>YUCATAN</b> 309,652	<b>COAHUILA</b> 296,938	<b>SINALOA</b> 296,701	<b>QUERETARO</b> 232,389	<b>SONORA</b> 221,682	<b>TAMAULIPAS</b> 218,948	<b>TLAXCALA</b> 172,315	<b>MORELOS</b> 160,115	<b>TABASCO</b> 159,834	<b>TEPIC</b> 150,098	<b>AGUASCALIENTES</b> 102,416	<b>CAMPECHE</b> 86,542	<b>COLIMA</b> 65,115	<b>LOWER CALIFORNIA</b> 47,614.

THE POPULATION AND AREA OF THE NEW TERRITORY OF QUINTANA ROO ARE INCLUDED IN THE STATE OF YUCATAN.

I.B.A.M. M.S.

The States and Territories are subdivided into *municipalidades* which elect their own administrative councils and mayors.

The States and Territories and their respective capitals are the following:

	Capital.
Federal District.....	Mexico City.
State of—	
Aguascalientes.....	Aguascalientes.
Campeche.....	Campeche.
Chiapas.....	Tuxtla-Gutierrez.
Chihuahua.....	Chihuahua.
Coahuila.....	Saltillo.
Colima.....	Colima.
Durango.....	Durango.
Guanajuato.....	Guanajuato.
Guerrero.....	Chilpancingo.
Hidalgo.....	Pachuca.
Jalisco.....	Guadalajara.
Mexico.....	Toluca.
Michoacan.....	Morelia.
Morelos.....	Cuernavaca.
Nuevo Leon.....	Monterey.
Oaxaca.....	Oaxaca.
Puebla.....	Puebla.
Queretaro.....	Queretaro.
San Luis Potosi.....	San Luis Potosi.
Sinaloa.....	Culiacan.
Sonora.....	Hermosillo.
Tabasco.....	San Juan Bautista.
Tamaulipas.....	Ciudad Victoria.
Tlaxcala.....	Tlaxcala.
Veracruz.....	Jalapa.
Yucatan.....	Merida.
Zacatecas.....	Zacatecas.
Territory of—	
Baja California.....	La Paz.
Tepic.....	Tepic.
Quintana Roo.....	Santa Cruz de Bravo.
President.....	Gen. PORFIRIO DIAZ.
Vice-President.....	Sr. Lic. RAMÓN CORRAL.
Secretary of Foreign Affairs.....	Sr. Lic. IGNACIO H. MARISCAL.
Secretary of Government.....	Sr. Lic. RAMÓN CORRAL.
Secretary of Justice.....	Sr. Lic. JUSTINO FERNANDEZ.
Secretary of Public Instruction.....	Sr. Lic. JUSTO SIERRA.
Secretary of Fomento, Colonization, and Industry.....	Sr. Lic. OLEGARIO MOLINA.
Secretary of Communication and Public Works.....	Sr. LEANDRO FERNANDEZ.
Secretary of the Treasury and Public Credit.....	Sr. Lic. JOSÉ IVES LIMANTOUR.
Secretary of War and Marine.....	Gen. MANUEL GONZALEZ COSIO.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The President receives a salary of 50,000 *pesos* annually, equal to \$25,000, while the Secretaries receive 15,000 *pesos* each.

## MEXICO IN 1908.

The message of President DIAZ delivered to the Mexican Congress on April 1, 1909, covering conditions in the preceding half year, indicated the recovery of the industrial life of the Republic from the effects of the financial crisis of 1908. Internal affairs were administered with due respect to public order. Immigration was encouraged and new administrative measures enacted for the regulation thereof, the revised law going into effect on March 1, 1909.

The rapid strides made by the country in economic development is a matter of widespread interest, further evidenced by the extension of steamship communications with the Orient and by the diversified nationality of the various mining and industrial enterprises located within the Republic. The volume of trade for the fiscal year ended June 30, 1908, showed a decline of something over \$8,000,000, of which sum over \$5,000,000 was due to a falling off in imports. Since the bulk of the exports of the country are of raw material, for which the demand in foreign markets was smaller and at lower prices, due to the business depression then prevailing, the reason for the decline in export values for the year is obvious. These conditions naturally reacted upon Mexican purchases abroad for home consumption, resulting in a corresponding decrease in imports. Furthermore, although Mexican trade values for the first six months of the fiscal year 1908-9 showed a decline of nearly \$35,000,000 gold, as compared with the corresponding period of the year 1907-8, this shrinkage was the result of conditions which had previously existed and were rapidly disappearing. On the other hand, it is worthy of note that export values exceeded the total imports by over \$18,000,000 gold. A considerable part of the decline in export values was represented by reduced shipments of precious metals, the largest item in this category being silver *pesos*, of which no shipments were made during the six months. The same is true of gold coin.

## FOREIGN AFFAIRS.

Cordial relations with foreign powers continued to mark the diplomatic life of the nation, and the adjustment of certain questions with France and Holland pertaining to citizenship and extradition, respectively, was effected by the ratification of treaties. The principles of maritime law as embodied in the Declaration of Paris of April 16, 1856, received the formal adherence of the Mexican Government in December, 1908, and modifications of the postal convention with England were approved in the same month, the ratifications of which were exchanged on March 13, 1909.

A treaty of arbitration was concluded with the United States, becoming effective in June, 1908, and a treaty of friendship, commerce, and navigation with the Republic of Honduras for the maintenance of friendly relations between the two countries.

The Government participated in various events abroad, among them the inauguration of the International Agronomical Institute at Rome; the Washington Conference for the conservation of the natural resources of North America; the meeting of the International Congress at Paris in October, 1908; the First International Congress on Moral and Social Education at London in September, 1908; the International Tuberculosis Congress at Washington; and the First Pan-American Scientific Congress at Santiago, Chile, in December. Many invitations have been received to assist at various other international functions in the future. In a number of cases the Government has accepted these invitations, and delegates are already selected.

The Mexican exhibit at the Crystal Palace in London was formally opened to the public by the Lord Mayor of the city on June 26, 1908, assisted by the Mexican Minister to Great Britain, the Mexican Consul-General in London, and a number of other prominent persons and officials. The section devoted to exhibits of sugar and tobacco was most effective and interesting.

#### FINANCE.

For the fiscal year 1907-8 the ordinary receipts and disbursements of the Government amounted to \$55,885,900 and \$46,588,700, respectively, leaving a balance in favor of receipts of \$9,297,200. The extraordinary expenditures during the fiscal year amounted to \$5,850,600, and pending accounts due at the beginning of the year \$270,300 more, making the net balance of receipts over expenditures \$3,176,300. The budget for the fiscal year 1908-9 estimated expenditures at \$48,537,000. The figures in the budget for the year 1909-10 are placed at \$48,630,500 for receipts, and for disbursements at \$48,467,700, an indicated surplus of \$162,800. The estimate of expenditures for the year 1909-10 shows a decline of \$3,552,457, as compared with appropriations made for 1908-9, when \$52,020,100 were expended.

The customs receipts for the fiscal year 1907-8 aggregated \$13,561,200, exceeding the budget estimate by more than \$2,000,000.

The net diminution of the public debt during 1908 was \$1,486,000. The total figures, including interest, on June 30, 1907, and June 30, 1908, were \$222,268,300 and \$220,782,300 respectively. Excluding interest, the principal of the debt was reduced by \$1,327,200.

The report of the Exchange and Monetary Commission of the Republic shows that the total coinage from May 1, 1905, to June 30,

1908, inclusive, amounted to \$59,782,590, in the following proportion: Gold, \$40,813,250; silver, \$18,100,272; and fractional currency (nickel and copper), \$869,068. The stock of gold, silver pesos, fractional domestic and foreign coin in the possession of the Commission on June 30, 1908, was \$4,665,959. The fractional silver and copper coins of the old issue, retired from circulation between May 1, 1905, and June 30, 1908, amounted to \$5,137,224 and \$125,576, respectively.

In 1908 there were thirty-four banks operating in Mexico, representing a combined capital of \$88,000,000. Thirty of these were banks of issue, among which the following are the principal institutions: The National Bank, with a capital of \$16,000,000; the Central Bank, \$15,000,000; Bank of London and Mexico, \$10,750,000; Peninsular Bank, \$8,250,000; Mexican Bank of Commerce and Industry, \$5,000,000; and the Oriental Bank, \$3,000,000.

The assets and liabilities of the various banks of issue in the Republic, at the end of June, 1908, were balanced at \$306,655,900, as compared with \$301,430,200 of the year previous; the banks of encouragement at \$52,347,600, as compared with \$44,029,396 in 1907; and the mortgage banks at \$19,257,500, as compared with \$16,422,152 for 1907, a substantial gain under all three classifications being noted. The paid-up capital in all of the banks of the Republic under federal concessions aggregated \$82,430,700, a net increase of \$5,431,500 over 1907; reserve and emergency funds amounting to \$28,596,400, an increase of \$597,700, as compared with 1907. Gold and silver minted during the year amounted to \$12,001,800, of which \$8,300,000 was gold and \$3,701,800 silver. The total coinage for the fiscal year 1906-7 amounted to \$23,967,800 and since 1905 to \$59,782,500. Making allowance for exportations of specie, which to June 30, 1907, amounted to \$37,708,100, and for the fiscal year to June 30, 1908, to \$5,327,500, and also for old coin reminted, amounting to \$8,521,700, the circulating medium during the three years is shown to have increased \$8,225,200.

A noteworthy occurrence in banking circles was the opening of a bank of rediscount, an incident which marked a forward step in the progressive banking methods of the country. The establishment of this institution, in which many of the chartered banks participated, filled a long-felt want and was cordially received by the financial interests of the Republic.

For the purpose of enabling manufacturers and agriculturists to extend the scope of their activities a new credit institution making a specialty of this class of loans was opened in June, 1908, and in September of the same year the Minister of Fomento granted a concession for the establishment of a bank in the Mexican capital for the purpose of aiding irrigation enterprises for the agricultural development of the country.

Various modifications in the customs tariff were enacted during the year affecting the following articles: Tobacco, steel and iron, building materials, clothing, and carriages, while the budget law provided for the imposition of export duties on grass fodder, chicle, guayule, hemp fiber or sisal, raw hides, and skins. It was found expedient to continue the reduced duty on wheat imports as decreed in November, 1908, by reason of the almost total failure of the wheat crop. This lower rate has recently been canceled, as the new crop is reported as unexpectedly large. A presidential decree was also issued extending until June 30, 1909, the time allowed for the free entry of merchandise into Quintana Roo for consumption in that Territory.

#### COMMERCE.

For the first six months of the fiscal year 1908-9 (July to December, 1908) the total foreign trade of the Republic was \$90,859,805.98, as compared with \$125,415,644.07 for the same period of 1907, showing a decline of \$34,555,838.09. In this total, imports figured for \$36,340,800, and exports for \$54,518,900, showing a decline in both branches of trade of \$25,185,900.12 and \$9,369,900, respectively.

An interesting feature in the analysis of these statistics is the large excess of exports over imports, amounting to \$18,178,100, which excess was greater than that recorded for the whole year 1907-8 by \$7,686,700 and for 1906-7 by \$10,283,900.

A classification of imports for the first six months of the year showed the following values in the order of their importance: Mineral substances, \$10,448,700; machinery and apparatus, \$5,500,000; vegetable substances, \$5,458,300; textiles and manufactures, \$3,773,300; animal substances, \$3,253,500; chemical and pharmaceutical products, \$2,233,500; miscellaneous, \$1,731,300; wines, liquors, etc., \$1,314,000; and paper and manufactureres, \$1,116,200, all of the items showing a decline. The countries of origin for these imports were: North America, \$20,046,500; Europe, \$15,474,300; Asia, \$518,600 (a gain of \$30,100 over the same period of 1907-8); South America, \$170,600; Oceania, \$65,200 (a gain of \$3,700 over the same period of 1907-8); West Indies, \$35,900 (a gain of \$2,100 over the same period of 1907-8); and Central America, \$8,500.

Exports for the first six months of the year showed the following values: Mineral substances, \$35,162,600; vegetable substances, \$14,648,900; animal substances, \$3,237,200 (a gain of over \$1,000,000 gold over 1907-8); manufactured products, \$618,200; and miscellaneous, \$851,900. The countries of destination were: North America, \$40,327,200; Europe, \$13,454,500; the West Indies, \$458,400; Central America, \$258,400 (a gain of \$31,000 over the same period of 1907-8); and South America, \$19,800.



The trade of the Republic for the fiscal year 1907-8 amounted to \$232,170,000, as compared with \$240,123,700 for the previous year. In this total, imports figured to the extent of \$110,800,000 and exports to the extent of \$121,370,000, as compared with \$116,114,700 and \$124,009,000, respectively, for the preceding year. A decline is thus indicated in both branches of foreign trade, the loss on imports amounting to \$5,314,700 and on exports to \$2,639,000. The balance of trade in favor of the Republic, as indicated by the excess of exports over imports, was \$10,570,000, which is a favorable showing as compared with the preceding fiscal year, when the trade balance figured for \$7,894,300.

Generally classified, the countries of origin were: North America, \$59,400,000; Europe, \$49,580,000; Asia, \$1,112,000; South America, \$348,000; Oceania, \$181,000; the West Indies, \$71,000; and Central America, \$59,400. Of the imports from North America, the United States furnished \$59,000,000; and Canada, \$410,800. The European countries contributing to imports were: Great Britain, \$16,370,000; Germany, \$14,160,000; France, \$9,800,000; Spain, \$3,700,000; Belgium, \$1,600,000; Italy, \$960,000; and Austria, \$813,400.

Export values figured as follows: North America, \$85,150,000; Europe, \$34,745,000; South America, \$24,374; Central America, \$414,000; and the West Indies, \$1,030,000. Of the exports to North America, the United States received \$85,000,000, and Canada, \$93,500; of those to Europe, Great Britain, \$13,107,000; Germany, \$11,190,000; France, \$6,196,000; Belgium, \$3,018,000; and Spain, \$1,165,000.

The only item on the import list on which a marked increase is noted is textiles and manufactures thereof, which showed a gain of \$2,400,000 for the year 1907-8. While minerals and metals decreased in import value by \$6,492,000, it is noteworthy that iron and steel for building and industrial purposes showed an advance of \$1,683,000. Although imports showed an indicated decline of over \$5,000,000, it should be borne in mind that the returns for the year 1906-7 included some \$11,500,000 of Mexican gold and silver coin minted in the United States, whereas in 1907-8 only \$1,800,000 Mexican silver coin and \$1,500,000 of foreign gold were imported; so that the specie imports for the year showed a falling off of \$8,250,000, approximately. As such importations of specie are not due to the natural operation of the trade balance, but to accidental circumstances, it may be assumed that the imports for 1907-8 were in reality \$3,000,000 in excess of those of 1906-7.

The mineral exports of the Republic for the year 1907-8, as shown by the reports of the Bureau of Statistics, amounted to \$79,215,000 as compared with \$80,123,000 for 1906-7.

The exports of vegetable products of the country were valued at \$35,102,400, animal products at \$4,828,300, and manufactures at \$1,504,700, while those classified as miscellaneous were valued at \$728,400.

Mineral exports were distributed as follows: Silver, \$46,517,300; gold, \$15,960,500; copper, \$12,417,000; lead, \$2,672,200; antimony, \$845,500; zinc, \$444,200; and other metals, \$358,100.

Gold shipments increased \$4,023,600 and those of silver declined by \$3,413,500, so that precious metals together advanced \$610,100.

It is also worthy of note that while shipments of silver coin were nearly \$14,000,000 less than in 1907, the exportation of bar silver, silver ore, cyanides, sulphides, etc., increased by \$7,000,000, the increase in the exportation of bar silver being greater than the increase in the exportation of ore, which demonstrates the impetus given to home smelting and refining.

The decline in copper exports was caused by the depression of the market for that metal, which antedated by some months that of the silver market. Many of the mines were forced to suspend operations owing to this condition, but work has recently been resumed, the federal authorities contributing to the resumption of work by granting the free importation of fuel oil, thus cheapening the cost of production. Lead and zinc also participated in the decline caused by a fluctuating market.

While the contribution of vegetable products to export values was lower by \$812,000 than in 1906-7, certain items, among them coffee, tobacco, chicle, rubber, and broom root, showed advanced valuations. Coffee shipments show a gain of \$677,400; rubber, \$1,106,300; and guayule, \$585,700.

Shipments of tobacco showed an increase in value amounting to \$371,400, while other native products—such as cotton, wheat, rice, corn, and beans—were subject to greater domestic demand, thus necessitating a cutting off of exports.

The total exports of henequen during the year amounted to 394,816 bales, or 244,150,750 pounds, representing a valuation of \$13,509,670. While the output for the year was greater by 588,632 pounds than that of 1906-7, more favorable market conditions in 1906-7 enabled the planters to secure better prices for their crop, which, although aggregating only 243,562,118 pounds as compared with that of 1907-8, represented a valuation of \$15,720,100, or \$2,210,430 more than the larger crop of the latter year.

Although sugar exports showed a decrease as compared with 1906-7, the output has unquestionably increased from year to year, and it was to the decline of 1908, coupled with decreased exports of palmetto hats, that the lower figures reported for exports of manu-

factured products were mainly attributable. A lowering in price of some of the commodities figuring in the export list of the country also accounted in some degree for the decline in aggregate values.

The exportation of cattle regained to some extent the ground lost during the preceding year, showing a gain both in value and numbers, although hides fell off to the low level reached in 1904-5. The Government has interested itself in the encouragement of this industry and has recently granted concessions to packing companies which depend on native stock raisers for their product.

#### PRODUCTION AND INDUSTRIES.

The mines of Mexico are the principal source of national wealth and one of the leading fields of industry in the Republic. Calculated from exportation figures, which constitute the only available index to production values, Señor LIMANTOUR, Minister of Finance, gives the mineral production for 1907-8 at \$83,071,500 in the following distribution: Silver, \$42,723,500; gold, \$19,048,000; copper, \$12,400,000; coal, \$3,500,000; lead, \$2,700,000; other metals, \$1,700,000; and mineral oil, \$1,000,000. The annual increase in the output of gold is a matter of great satisfaction, the present figures showing a marked advance over the output of \$7,000,000 in 1898. The best paying gold mine in North and South America is the Esperanza at El Oro, Mexico, which paid its owners during the year 1908 \$1,180,000, and since its incorporation the sum of \$9,427,500, or 419 per cent on a capitalization of \$2,250,000. The property is controlled by United States and British investors.

Notwithstanding the low price of silver since the middle of 1907, the operation of silver mines showed no decline during the latest fiscal year, and an increase was made both in quantity and value of the output, despite the fact that the average price per kilogram dropped from \$22 to less than \$20.

An estimate of the value of mining properties held by foreign companies and individuals in Mexico places the amount at \$350,000,000, and a compilation covering a period of nine months in 1908 showed that dividends of \$6,723,061 were declared by 28 gold, silver, copper, and lead mines and smelters. These same properties, which have an outstanding capitalization of \$60,653,385, have since their incorporation yielded \$45,324,041, or a return of 75 per cent on the invested capital.

The exploitation of the petroleum deposits in northwestern Mexico will give a great impetus to the development of that part of the Republic, and will enable manufacturing and mining operations to be carried on upon a larger scale than ever before. The Mexican oil

fields, which cover an area of over 800 square miles, increased their output in 1908, as against that of 1907, by more than 500 per cent, and under existing conditions the production for the year 1909 will undoubtedly be still further increased. The yield for 1907 was estimated at about 1,000,000 barrels, which came principally from the Ebano field and was of the fuel variety.

The petroliferous lands extend from the hacienda of San Jose de las Ruinas, in Central Tamaulipas, to the district of Valles, in San Luis Potosi (where the Ebano oil deposits are being worked), through the counties of Uzuulama, Tuxpan, and Papantla, in Veracruz. Farther to the south is a region which embraces the Veracruz counties of Acayucan and Minatitlan and extends southward through the States of Tabasco, Campeche, and Chiapas. Petroleum has also been found in small quantities in the Federal District, in Jalisco and Oaxaca, and at other points along the Isthmus of Tehuantepec. Some recent discoveries in the States of Chihuahua and Coahuila show the existence of paraffin oil in that district.

The use of fuel oil in mining operations having proved profitable to the company originally granted the concession to import petroleum free, the privilege was subsequently accorded other companies for the purpose of offsetting adverse market conditions by cheapening the handling of lower grade ores.

The recent increase in transport rates on imported coal and coke was designed to afford equitable protection to the native product, it being claimed by coal producers that the national mines are able, with adequate protection, to compete with the foreign article in the country's markets, and that the output of coke might within a short time be brought up to the requirements of the market.

The possible production under present conditions, exclusive of the mines which supply the railroads, is estimated at 70,000 tons of commercial coal per month, plus the 40,000 tons which are converted into 20,000 tons of coke, while the additional 20,000 tons needed to supply the coal demand could easily be obtained. With respect to coke the national companies still fall short by about 110,000 tons per annum in supplying the Republic, but it is claimed that proper government aid would produce an immediate increase in the output. Much of the coke consumed in normal times is supplied from the United States, as owing to the greater cost of transportation from European ports German and English producers are not able to compete with the United States. A few years ago, during an extended strike in the coal fields of the United States, considerable coke was imported from Germany, and recent shipments are reported from England.

The proposed new mining law of Mexico, while it prohibits foreign companies from acquiring mines in the Republic in their own right,

does not affect the requirements as to registration, such companies still remaining subject to the provisions of article 24 of the Commercial Code, which provides that—

Foreign corporations which desire to become established or to create branches in the Republic shall present and cause to be recorded in the Commercial Registry, in addition to a protocolized copy of their statutes, contracts and other documents relating to their incorporation, an inventory, or their latest balance sheet, if they have any, as well as a certificate proving that they have been organized and authorized to do business under the laws of their respective countries, said certificate being issued by the Minister of the Republic accredited to each country, or if there be no Minister, by the Mexican Consul.

During the fiscal year 1907-8, title deeds to mining properties to the number of 6,600 and covering 119,634 hectares were issued; in the succeeding half year 2,100 deeds were issued covering 39,987 hectares.

The annual value of cereal crops, fruits, and other products of the soil, and of cattle marketed, is slightly in excess of \$200,000,000. Of this amount the following are the chief items in the order of their importance and represent a fair average crop: Corn, \$50,000,000; cotton, \$17,000,000; henequen, \$16,000,000; wheat, \$13,000,000; sugar and molasses, \$13,000,000; spirits, \$10,000,000; coffee, \$8,000,000; beans, \$6,000,000; and woods, \$5,000,000.

The coffee crop for 1906 and 1907 fell far below the average (88,000,000 pounds), the 1908 crop being estimated at 42,000,000 pounds, as compared with 45,000,000, the estimated production for 1907. The estimates for 1909 place the crop at 81,000,000 pounds. The best grades of Mexican coffee come from Oaxaca, Cuantepec, Cordova, Orizaba, and Sierra.

The year's output of sugar, 123,000 tons, showed a gain of 4,000 tons as compared with the previous year, and for the year 1908-9 the crop is placed at 125,000 tons. The shipment of raw sugars to England is being profitably carried on and the acreage under cultivation is increasing each year. The sugar industry is protected by a law in force from February 15, 1908, making raw sugar, sugar candy, and refined sugar of all classes subject to an import tax of  $2\frac{1}{2}$  cents per kilogram, gross weight.

In accordance with the provisions of the Brussels sugar convention, a special duty on Mexican sugar has been levied in all the countries represented in that convention. This duty is imposed on account of the increase made in 1908 by the Mexican Government in its tariff on foreign sugar imported into the Republic by which the duty of \$1.25 gold per 100 kilograms was raised to \$2.50 per 100 kilograms.

One of the immediate benefits to be derived from the construction of the Nazas River dam at San Fernandez will be an immensely increased cotton yield in the Laguna district. This section of Mexico is a level basin with wonderfully fertile lands, suitable for the culture

of cotton. The district is dotted with factories and traversed by railroads for the transport of both raw and manufactured products, while the surrounding mountains contain valuable mineral deposits. European experts claim that the Laguna cotton is of remarkably strong fiber and of excellent texture and color. The total crop of the Republic for 1907 was 80,000 bales, and as the consumption in the mills was about 155,000 bales, large quantities were imported to meet the needs of the home market. The imports of textile fibers by Mexico for the fiscal year 1907-8 were nearly double in value those reported for the year 1906-7, the annual imports from the United States being estimated at about 50,000 bales.

In 1906 the cotton yield was far in excess of the demand and 50,000 bales were shipped to Europe, but lacking sufficient and regular water supply the growers are unable to accurately gauge the output from year to year. This uncertainty, however, will be overcome by the agency of the San Fernandez dam.

The growing of the so-called tree cotton is attended with profitable results.

For the half year, July to December, 1908, the 119 textile factories in the Republic paid governmental taxes amounting to \$461,800.

The cultivation of rubber has passed the experimental stage, statistics showing that the rubber locally produced for export has increased from 7,000 pounds in 1900 to 182,219 pounds in 1907, of which not more than 4,000 pounds were of the wild variety. Those sections of the States of Tabasco and Chiapas lying in what is known as the rubber belt, possess all the climatic and physical conditions required for the development of this culture, while the projected opening up of the district by a new railway line will contribute powerfully to the stimulation of capitalized interest. The second convention of the Rubber Planters' Association of Mexico held its session at San Geronimo, State of Oaxaca during the month of August, 1908, and measures were projected for the material advancement of this branch of national industry.

The growth and commercial development of allied products are also being stimulated and in connection with the increased shipments of guayule from Mexico during the fiscal year ending June 30, 1908, when the valuation was given as over \$500,000 in excess of 1907, it is significant that receipts in the United States of rubber from Mexico, mainly guayule, showed a steady increase.

Since the exploitation of the guayule industry, with its attendant financial success, prospectors have been investigating other rubber-producing plants and trees in Mexico in the hope of meeting with similar good fortune. They confidently expect to more than duplicate present achievements with the guayule plant by utilizing the *palo*

*colorado*. They claim that the sap of this tree contains over 33½ per cent pure caoutchouc. The Mexican Government has contracted for the establishment of a factory to extract, refine, and manufacture



A CIGARETTE FACTORY IN MEXICO.

Cigarettes are to-day made largely by machinery, which has to a great extent displaced the hand labor, once the universal rule in factories. Machines are even made to place the cigarettes in the box ready for the consumer, but the employment of women for this purpose is still customary in the older centers of the trade. This is altogether piecework, and women become marvelously expert in their occupation.

the rubber obtained from the *palo amarillo* and *amate* trees. Included in the concession for the exploitation of this industry is the privilege of introducing duty free all of the necessary material, machinery,

and appliances for the installation of the factory and exemption from taxation during the life of the concession, viz, ten years.

Fruits of various kinds, mainly of the citrus family, have a promising future, while in many sections the soil is excellently adapted to the cultivation of cacao. The cacao grown in Tabasco has a world-wide reputation, being highly prized by connoisseurs for its rich flavor and nourishing qualities. Three crops of cacao beans are gathered during the year, and it is estimated that 1,000 trees have an average production of 600 pounds, the price in this market at wholesale being 25 to 30 cents gold. The local demand absorbs the entire crop which, according to the most reliable information, amounts to 2,000,000 pounds.

It is estimated that the growing of pecans in the Republic represents a production of \$400,000 annually, or 100 carloads, most of which go to the United States.

Hard woods are abundant in the forests, and another item of commercial importance is the recently discovered wax-producing quality of the *candelilla* plant.

Statistics relating to the tobacco industry of Mexico showed 995 tobacco factories in the Republic, which in 1907 produced 525,259,735 packages of cigarettes, 134,055,669 cigars, 164,308 kilos of smoking tobacco, and 27,800 kilos of snuff.

The live-stock industry in the Republic, according to the latest federal statistics, represented 5,142,457 cattle, valued at \$40,540,994; 3,424,430 sheep, valued at \$3,006,578; 616,139 hogs, valued at \$1,024,929; 4,206,041 goats, valued at \$3,610,714. The States of Chihuahua and Veracruz lead in number of cattle, with 396,023 and 392,858, respectively; Zacatecas and San Luis Potosi in sheep, with 826,704 and 415,697; Tepic and Jalisco in hogs, with 86,523 and 76,529; and Coahuila, Durango, and San Luis Potosi in goats, with 615,144, 534,304, and 519,844, respectively.

Authority to allow free importation of agricultural implements, cattle for breeding purposes, machinery, seeds, etc., was granted for a period of ten years, dating from June 17, 1908. A concession to this effect will be granted by the Minister of Fomento when, in the opinion of the Department, it is impossible for the concessionaire to obtain similar articles on as good terms in the home markets.

The Mexican Congress extended for a period of five years from November 10, 1908, the authority of the Executive to grant concessions to new industries, with exemption from duties and federal taxes for periods of five to ten years. The original law was enacted in 1898 and extended in 1903. By virtue of its provisions the Executive has the privilege of issuing concessions to companies guaranteeing investment of sums of money in national enterprises exceeding \$50,000 gold.



The establishment of a large canning factory and packing establishment in 1905 in Mexico City was regarded as the inception of a great enterprise, but the prospectus of the reorganized company announces the opening of two auxiliary plants, making a total of four under the management of the national packing company and the monopoly of the beef packing business of Mexico. About 400 cattle and 450 sheep are slaughtered daily in the city and since the purchase of the slaughterhouse this business will be exclusively in the hands of the packing company.

By the terms of its concession from the Government the company is to receive all of its tin plate and supplies of machinery free of duty for a period of twenty years.

In the general policy of the Mexican Government to stimulate the development of the native industries, as evidenced by special legislative concessions to the promoters thereof, a significant demonstration was made in the placing of an order for 20,000 tons of steel rails with the company at Monterey. The control by the Government of a large portion of the railways of the Republic and the higher duty recently placed upon imports of steel and iron are significant factors in this order.

A law promulgated June 17, 1908, authorized the expenditure by the Executive, through the medium of contracts effected by the Department of Fomento, of \$12,500,000 in irrigation works designed for the betterment of agricultural and pastoral industries. Concessions obtained under this law are regarded as works of public utility and carry with them the free admission of such machinery, implements, seed, and stock as may be required for the adequate development of the enterprise, the object of the concession.

A noteworthy feature of the economic development of the Republic within the past few years has been the number of concessions for water privileges granted in connection with manufacturing and industrial enterprises. The applications considered during the last half of the year numbered 142.

At the Necaxa Reservoir, where a dozen small streams are collected for the use of the electric plants and the daily use of half a million people in the Federal District of Mexico, there will ultimately be available 236,000 horsepower. For five years a force of 6,000 men has been engaged upon this project, and there still remains much work to be done. The Necaxa River, in length scarcely 25 miles, has a total gradient of 1 mile from its source to the power house, and included within that distance are two falls, one of 460 feet and the other of 740 feet.

## COMMUNICATION FACILITIES.

The railway system of government-controlled lines covers an extension of 11,850 miles, which, together with the mileage under the jurisdiction of the different States, brings the total up to 14,857 miles. During the year 1907-8 the number of passengers carried by the various railroads of the country reached a total of 10,747,128, as compared with 10,000,031 for the fiscal year 1906-7. Freight shipments were given as aggregating 10,042,144 tons, as compared with 9,124,040 tons for the two periods, respectively. The gross earnings of the railway lines for the fiscal year 1907-8 were given as \$37,184,825, in which freight traffic figured to the extent of \$28,966,576 and passenger traffic to the extent of \$8,218,429, as compared with total earnings amounting to \$34,192,336 for 1906-7, composed of freight traffic to the amount of \$26,431,770 and passenger traffic to the amount of \$7,760,566, a gain of \$2,534,806 and \$457,683 in the respective branches of traffic.

With the operation of the railway merger of Mexican railways, which became effective on and after midnight, January 31, 1909, a most important step in the direction of the control of public utilities was taken by the Mexican Government. The extent of road under the working of the merger is 7,012 miles, in addition to which there are 265 miles of track on the Veracruz-Pacific route and 206 miles of the Tehuantepec National, which are controlled by the Government. Of the board of directors, 12 reside in Mexico and 9 in New York. This progressive move is part of the general effort being made throughout Mexico to arrange for adequate land and sea transport of her products. New lines of railway are being opened up in the interior and on the west coast to meet the requirements of new steamship connections, either established or projected. Additional steamers are being put upon services already operating, and branch connections are being made over new land routes. The Tehuantepec Railway, which crosses the Isthmus of Tehuantepec, carrying freights received from the steamship lines plying between the great ports of the United States and the eastern and western termini, transported during the year 1907, the first year of its operation, merchandise to the value of between \$25,000,000 and \$30,000,000, and in the second year to the value of \$38,000,000. This road, which is nearly 190 miles in length, was constructed chiefly with British capital and controlled, in part at least, by the Mexican Government, and was built for the specific purpose of handling freight between the Atlantic and Pacific oceans. The harbor of Santa Cruz, the Pacific terminus of this railway, is equipped with breakwaters inclosing a harbor area of over 130 acres, of which 96 have a depth of 33 feet, and a dry dock capable of accommodating the largest ship in the Pacific Ocean. The

wharves, furnished with electric derricks and every modern appliance for the handling of the enormous traffic of the Tehuantepec line, represent an expenditure of many millions of dollars. It is estimated that \$6,000,000 more will be required to complete the work in prospect.

The corporation which represents the railway merger and is known as the "National Railways of Mexico," and which is a consolidation of the Mexican Central and Mexican National Railways, is capitalized at \$230,000,000, composed of \$30,000,000 first preferred, \$125,000,000 second preferred, and \$75,000,000 ordinary stock. The Mexican Government holds \$10,000,000 of the first preferred shares; \$10,278,290 of the second preferred shares received in exchange for second preferred stock of the National Railroad, \$20,000,000 of second preferred shares received in exchange for Mexican Central Railway stock; \$10,994,000 of ordinary shares received in exchange for preferred stock of the National Railroad, and \$63,730,000 ordinary shares received as part compensation of the Government's guaranty; or a total interest of \$115,002,290. This is a majority of the capital stock and makes the Government the deciding factor in the corporation.

The immense impetus given to transportation enterprises throughout the Republic of Mexico by the construction of the Tehuantepec line is being supplemented by the opening of additional rail connections.

In many respects the greatest event in the history of Mazatlan and the State of Sinaloa was the completion of the Southern Pacific Railway to that point on April 18, 1909. The operating company has secured concessions for the construction and operation of about 1,500 miles of road receiving subsidies to the amount of about \$10,000,000.

On December 12, 1908, President DIAZ formally opened the new railroad from Guadalajara to Manzanillo.

The rail communication established between Guadalajara and Colima and thence over the line already in operation to Manzanillo gives Mexico a second transcontinental railway connecting the two oceans. The Tehuantepec Railway is of course the principal and shortest route across the continent, but now it becomes possible to leave the steamer at Tampico or Veracruz and to travel overland through Guadalajara to Manzanillo with only two changes of cars. As a result of the communication thus established, Colima, a small but richly resourceful section of the country, is provided with an Atlantic outlet for its products through the port of Tampico on the Gulf, while the importance of the Pacific port of Manzanillo is largely enhanced.

Increased exports of native products, including hats, rice, and sugar, are reported since the opening of the rail connection to the

coast, and large shipments of wheat are being received via Guadalajara and Zapotlan. Steamship communication with Pacific ports and those of China and Japan are being inaugurated and Manzanillo, as a port of entry, will receive much merchandise which formerly had to be forwarded overland from Tampico.

In the opening of the railroad extension from San Jeronimo, on the Tehuantepec road, to Tapachula, in Chiapas, another link in the great Pan-American Railway was completed. The inauguration on May 5, 1908, was made the occasion of great rejoicing in the State of Chiapas, being presided over by the governor and celebrated with enthusiasm by the inhabitants. This branch is 46 miles long, forming part of the 305 miles now under operation on Mexican territory. The Federal Government paid the constructing company a subsidy of \$19,200 per mile and, according to the terms of the concession, granted the sole right of operation for a period of ninety-nine years. The line passes through a district containing fine coffee lands, the production of the region traversed being estimated at 40,000 tons annually, and it is from the transport of this commodity that the operating company hopes to pay the construction cost. At San Jeronimo the coffee will be shipped over the Tehuantepec road and thence to Puerto Mexico, to be sent finally to Germany, the leading market for this product.

The best of material has been employed in the construction of the line, steel rails of 56 pounds being used for the first 125 miles and 60 pounds for the rest. Steel bridges are also used and attractive stations have been constructed of brick and cement. Connection with the Guatemalan line is being pushed from the boundary of that Republic.

The standardizing of the interoceanic line is in contemplation during 1909.

Within a coast line of 2,800 miles on the Pacific and of 1,600 miles on the Gulf of Mexico and the Caribbean Sea, Mexico has no less than 24 ports on the Gulf of Mexico and 31 on the Pacific Ocean. Most of the natural harbors of Mexico are on the Pacific side, among them the splendid bay of Acapulco, considered one of the most beautiful bays of the world. While the Atlantic side offers but few natural ports, some of them, especially Vera Cruz and Tampico, have been improved and made accessible, so much so that these two ports are now the most important commercial centers.

Following are the ports of entry open to foreign trade, the other ports being open to the coastwise trade only:

Gulf ports: Campeche, Coatzacoalcos (Puerto Mexico), Chetumal, Frontera, Isla del Carmen, Isla de Mujeres, Progreso, Puerto Morelos, Tampico, Tuxpam, and Vera Cruz.

Pacific ports: Acapulco, Altata, Bahia de la Magdalena, Guayamas, La Paz, Manzanillo, Mazatlan, Puerto Angel, Salina Cruz, San Blas, San Jose del Cabo, Santa Rosalia, Todos los Santos, Tonalá, and San Benito.

Mexico may be reached from the sea by several lines either from New York or the Gulf ports of the United States or via San Francisco or one of the numerous lines plying between European and Mexican ports.

The New York and Cuba Mail Steamship Company, Ward Line, maintains a regular service between New York and Vera Cruz and other Mexican ports and between New Orleans and the Mexican ports. The run from New Orleans to Vera Cruz is made in four days, first-class passage being \$34.55.

The Mexican-American Steamship Company leaves New Orleans and Galveston in alternate weeks for Tampico and Vera Cruz. The Wolvin Line between Texas City and Vera Cruz calls at Puerto Mexico and Progreso with sailings every twelve days.

The *Compañía Transatlántica* and the *Compañía Mexicana de Navegación* ply between New York and the Gulf ports of the United States and Mexican ports. The American-Hawaiian Steamship Company has established a regular line of steamers between New York and Puerto Mexico, from whence transshipment is made via the Isthmus of Tehuantepec to Salina Cruz and thence to Hawaii.

Arrangements have been made for the lease of the Mexican American Steamship Company by the Wolvin Line, which will permit the latter company to practically control the business between Mexican and Gulf ports and the United States. The volume of trade is constantly increasing and the company contemplates improvements in both its passenger and freight service.

The Hamburg-American Line has added Puerto Mexico to its itinerary, steamers of this line calling at Havana, Veracruz, and Tampico. The Royal Mail Steam Packet Company also contemplate making Puerto Mexico a port of call.

The Munson Steamship Line to Cuba and Mexico has contracted with the Mexican Government for a service of at least two round trips per month between ports of the United States on the Atlantic coast or the Gulf of Mexico and one or more Mexican gulf ports. The term of the contract is for three years from January, 1909.

On the Pacific side, the Pacific Mail Steamship Company, the Pacific Coast Steamship Company, and the Kosmos Line provide the means of communication, the Pacific Mail sailing regularly every ten days from San Francisco, calling at Mazatlan, San Blas, Manzanillo, Acapulco, and Salina Cruz, making the run from San Francisco to Salina Cruz in eleven days, first-class passage being \$90,

while the time employed between San Francisco and the other ports varies according to their respective distances, the charge being accordingly more or less.

The Pacific Coast Steamship Company's vessels leave San Francisco on the 7th of every month, calling at Ensenada, Magdalena Bay, San Juan del Cabo, Mazatlan, Altata, La Paz, Topolomampo, Santa Rosalia, and Guaymas. The steamers of the Kosmos Line sail from San Francisco every two or three weeks and call at Mazatlan, San Blas, Manzanillo, Acapulco, Salina Cruz, Tonala, and San Benito.

The Jebsen Line, a new steamship company on the Pacific coast, has recently issued an announcement to the effect that its steamers are now running without change between Puget Sound and British Columbian ports to Mexico, Guatemala, Salvador, Honduras, and Panama, making the trip in twenty-two days from Seattle to Panama. The company issues through bills of lading to all interior points, and has passenger tickets into Mexico via the newly opened railway from Manzanillo.

The rivers of Mexico, although numerous and some of them of considerable length, afford but scanty means of navigation, due to their small volume of water and the fact that they are apt to rise suddenly during the rainy season and fall rapidly during the dry season. The Rio Grande, the Lerma, in which are the beautiful Falls of Juanacatlan, the Rio Panuco, and the Mexcala or Rio de las Balsas are navigable for short distances only.

Mexico has a number of beautiful and extensive lakes, among which Chapala, 100 miles long by 35 miles wide, presents the most picturesque scenery. Small steamers ply on it and small craft on Lake Cuitzeo and on Lakes Patzcuaro, Zumpango, Xaltocan, San Cristobal, Texcoco, Chalco, and Xochimilco in the valley of Mexico, near the capital of the Republic.

Several lines of steamers maintain a regular coastwise service between the different ports of Mexico, the most important of these being the *Campaña Naviera del Pacífico*, which is subsidized by the Mexican Government.

The French steamship company *Compagnie Générale Transatlantique*, has inaugurated a regular freight service between France and Puerto Mexico, the Atlantic terminal of the Tehuantepec Railway, the first steamer arriving in March, 1909. It is the intention of the company to establish a monthly service with two 5,000-ton steamers, and later to add passenger steamers to touch at French ports, Havana, Puerto Mexico, Veracruz, and Progreso.

The Italian Navigation Company of Genoa also has in contemplation a steamer service to Puerto Mexico.

It is from this port that Hawaiian sugar, shipped over the isthmian route, is forwarded on the Atlantic side. The sugar is carried by

the American Hawaiian Steamship Company to Salina Cruz on a schedule providing for three steamers a month with an average cargo of 12,000 tons each. It is estimated that over 375,000 tons of sugar were handled over the Tehuantepec Railroad in 1908. Additional ships are to be added to the Honolulu, San Francisco, and Salina Cruz service as the requirements of the traffic make such necessary.

Manzanillo is one of the oldest and most celebrated ports of the Republic. It lies almost due west of the City of Mexico, 500 miles south of Mazatlan, 900 miles north of Salina Cruz, and 400 north of Acapulco. When the important port works at Manzanillo are terminated it will be one of the best-equipped and most desirable ports on the Pacific coast. These works have been in course of construction since 1899, and when completed will give the harbor an area of 165 acres and a depth of 39 feet, thus enabling it to accommodate seagoing vessels of deep draft. The breakwater is one of the largest of its kind in the world, surpassing those of Cherbourg, France, and Plymouth, England. It is 400 meters long, 100 wide, and 24 deep, constructed of large stones and granite blocks weighing from 50 to 60 tons each.

The first two sections of the work for protecting the banks of the Bravo River above Ciudad Juarez and the strengthening of the embankment of the river have been completed and the Tampico canal extended to within 3 kilometers of the town of Tamiahua.

#### POSTS AND TELEGRAPHS.

There are 2,946 post-offices in Mexico, which, during the fiscal year 1907-8, handled 195,000,000 pieces of mail matter and issued \$25,477,500 domestic and \$2,618,500 foreign money orders. The total earnings of the Department for the twelve months were \$2,100,000. During the six months from July to December, 1908, the ordinary receipts amounted to \$1,062,500 and the mail matter handled aggregated 89,000,000 pieces. Domestic money orders were issued to the amount of \$12,450,000 (an increase of  $1\frac{1}{2}$  per cent) and on points out of the Republic to the amount of \$1,140,500. Postal drafts aggregating \$116,500 were paid to publishers.

In the month of November, 1908, Congress passed a law establishing a system of receipts for postal money orders both at home and abroad, the former being inaugurated February 1, 1909, and the latter, embracing Canada, Germany, France, Great Britain, and Salvador, on March 1, 1909. Through the German service a system of postal money orders was also established between Mexico and Turkey, and the parcels-post rates with Germany were modified.

The federal telegraph lines in the Republic have an extension of 40,640 miles, and new offices are being opened in accordance with the

needs of the service. Government adherence to the International Wireless Convention, signed at Berlin, Germany, November 30, 1906, has been announced. Wireless-telegraph stations have been installed in Lower California, placing that district in communication with the rest of the Republic.

Probably in no other country has wireless telegraphy been more satisfactorily used than in Mexico. Stations are now in operation at Cabo Haro, Santa Rosalia, Mazatlan, San José del Cabo, Payo, Obispo, and Xcalac. A number of other stations have been projected and are in course of erection.



A HOLIDAY PROCESSION IN MEXICO CITY.

The new immigration law of Mexico, passed by the National Congress on December 22, 1908, went into effect on March 1, 1909. The arrivals in the country, including not only immigrants but all others, from July to December, 1908, numbered 24,500, the number of Americans being given as slightly in excess of 11,000.

The promotion of immigration and colonization is receiving the serious consideration of the Government, and a land company has recently acquired 300,000 acres of land in the Territory of Tepic for the establishment of American agricultural colonies. During the year the Department of Fomento issued 2,851 title deeds covering an area of 698,520 hectares, for which the federal exchequer received



\$253,518. Irrigation methods and works were improved and extended.

Patents of invention to the number of 1,074 were issued and 1,033 trade-marks registered.

Education was also advanced by the Government through the erection of new school buildings and the establishment of agricultural farms and schools. The Department of Public Instruction and Fine Arts of Mexico is taking active measures to secure the preservation of the archæologic monuments of the Republic. Stringent orders have been given to prevent the excavation, alteration, or transportation of such monuments except under the authority of the department. Exportation of archæologic remains is prohibited.

The municipal improvements in the City of Mexico during the year include sanitation, paving works, the opening of public gardens, establishment of a crematory, and the erection of new market buildings.

The National School of Arts and Crafts for Women was installed in new quarters, the home of the Conservatory of Music changed, and improvements effected in the National Library. The expansion of the Department of Archæology into the National Museum has necessitated the acquisition of larger accommodations.

Transactions of record at the Registry of Property in the City of Mexico for the year aggregated nearly \$500,000,000.

Measures were taken for the adequate equipment of the military establishments of the Republic; smokeless powder and cartridge factories were started under proper supervision, and work is proceeding at the National Arsenal on such artillery as is necessary.



# NICARAGUA

Nicaragua, the largest of the Central American Republics, is situated between Honduras on the north, Costa Rica on the south, the Caribbean Sea, and the Pacific Ocean. Its territory extends over an area of 49,200 square miles, equal to that of the State of New York, with a population estimated at about 600,000.

Two mountain ranges traverse its entire territory. Due to this fact it enjoys a diversity of climate, products, and soil. The fertile plateaux are extremely healthful and pleasant, but the lowlands are hot and tropical. Coffee, cacao, and bananas are the principal articles of export, but sugar cane, tobacco, cotton, maize, and wheat are successfully grown. Numerous minerals and precious metals are found in the mountains. The vast forests contain over 40 different species of trees furnishing oils and extracts used for industrial and medicinal purposes. Mahogany and other valuable cabinet woods are largely exported.

In the lacustrine depression, in which are situated the picturesque lakes Nicaragua and Managua, are extensive plains affording excellent pasturage for cattle, and it is in this part of the country that most of the larger cities are to be found. The east coast, commonly known as the Mosquito coast, is but sparsely settled. The Indians inhabiting the Mosquito country are noted for their unique industries, such as the manufacture of various kinds of jewelry, especially the so-called Panama gold chains, hammocks, straw hats, and pottery, all of which find a ready market.

## HISTORICAL SKETCH.

COLUMBUS, on his fourth and last voyage, in exploring the coast of Central America, and after touching at Cape Honduras, was driven by the stress of weather to take shelter where the coast line turns abruptly from west to south. This point, which he named Cape Gracias a Dios (Thanks to God), is in Nicaragua, and it has retained ever since the name given by COLUMBUS. On September 25, 1502, he landed at the mouth of the Rama and took possession of the country in the name of the Spanish Crown.

In 1524 HERNANDEZ DE CORDOBA was dispatched from Panama to bring the country under subjugation. This he did, defeating the Indians and making several settlements. Some years prior to this GIL GONZALEZ had explored the country and had discovered Lake

Nicaragua. In 1570 Nicaragua became a part of the captain-generalcy of Guatemala.

Among the numerous invasions which Nicaragua, together with other Central American States, suffered during the sixteenth and seventeenth centuries, those of Sir FRANCIS DRAKE and HENRY MORGAN are the most noteworthy. In 1740 the British invaded the Mosquito coast, and, establishing friendly relations with the warlike Misskito or Sambos Indians, who had never submitted to the Spanish invaders, took possession of that part of Nicaragua. They retained possession of this territory until the year 1786, when, by a treaty with Spain, it was exchanged for what is now known as British Honduras, or Belize, and the land was restored to Spain. The Mosquito Indians subsequently acknowledged the sovereignty of Nicaragua.

On the 15th of September, 1821, the independence of the *Federación de Centro-América* having been declared in Guatemala City, Nicaragua became a State of the Federation, and with it, in the year 1822, a part of ITURBIDE'S Empire of Mexico. With the fall of the Empire it again formed part of the federation.



SR. DON JOSÉ SANTOS ZELAYA, PRESIDENT OF NICARAGUA.

Upon the dissolution of the federation, Nicaragua declared its absolute independence on April 30, 1838, and the constitution of the Republic of Nicaragua was formally proclaimed on November 30 of the same year.

Gen. JOSÉ SANTOS ZELAYA was inaugurated President on April 17, 1906.

#### CONSTITUTION AND GOVERNMENT.

The present constitution was promulgated March 30, 1905. Under it the legislative power is vested in a National Assembly composed of one chamber, the members of which are elected by popular vote for a term of six years, the chamber being, however, partially renewed every two years.

The executive power is exercised by the President of the Republic, assisted by a Cabinet of five ministers, or Secretaries of State. The President is elected by direct vote for a term of six years, every citizen over 18 years being not only entitled but obliged to vote. There is no Vice-President, but the Assembly elects three so-called *designados*, one of whom takes the President's place in case of absence or disability. The Secretaries of State are appointed by the President and are responsible both to the President and the Assembly.

The National Supreme Court, two Courts of Appeals, and a number of minor courts form the judiciary of the country. The justices for these courts are elected by the National Assembly for a term of six years.

INTERIOR GOVERNMENT.

For administrative purposes the country is divided into thirteen Departments, three districts, and two *comarcas*, which are again subdivided into municipalities. The Governors of these Departments, districts, and *comarcas* are appointed by the President of the Republic. The governing boards of the municipalities are elected by popular vote. The Departments of Nicaragua are:

Department of—	Capital.
Managua.....	Managua, also capital of the Republic.
Leon.....	León.
Granada.....	Granada.
Masaya.....	Masaya.
Chinandega.....	Chinandega.
Matagalpa.....	Matagalpa.
Carazo.....	Jinotepe.
Nueva Segovia.....	Somoto.
Jinotega.....	Jinotega.
Rivas.....	Rivas.
Esteli.....	Esteli.
Jerez.....	Boaca.
Zelaya.....	Bluefields.
District of—	
Río Grande.....	Barra de Río Grande.
Prinzapolka.....	Barra de Prinzapolka.
Siquia.....	Rama.
Comarca of—	
San Juan del Norte.....	San Juan.
Cape Gracias a Dios.....	Gracias a Dios.

The capital of the Republic is the city of Managua, with a population of 40,000; but the city of Leon, with 60,000 inhabitants, is the commercial center.

President.....	Gen. JOSÉ SANTOS ZELAYA.
Minister of Foreign Affairs and Public Instruction.....	Dr. FEDERICO SACASA.
Minister of Government, Justice and Police.....	Dr. GREGORIO ABAUNZA.
Minister of Treasury and Public Credit.....	Dr. JULIAN IRIAS.
Minister of War and Marine.....	Col. HORACIO ZELAYA.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the president is \$9,600 per annum.

## NICARAGUA IN 1908.

The administration of Nicaraguan affairs during 1908 was continued under the direction of President ZELAYA, and relations both at home and abroad were maintained on an amicable basis.

Measures were taken to adjust such difficulties with neighboring States as were susceptible of friendly settlement, and the nation participated in the various congresses and conventions growing out of the Washington Conference.

## FINANCE.

For the two years 1906 and 1907 the revenues and expenditures of the country were estimated at \$4,086,000 and \$4,188,000, respectively; later figures are not available.

The total outstanding obligations in July, 1909, were about \$3,875,000 and the internal debt \$5,127,990 (13,674,650 pesos).

The service of the public debt was continued during 1908 and by a loan, floated in May, 1909, under the law of September, 1908, \$5,750,000 are available for the settlement of various obligations of the Republic. Part of this is to settle the British loan of 1886 and part is to be applied to the New Orleans loan, the remainder to be used in continuing the Atlantic Railroad, starting from the port of San Miguelito, on the Lake of Nicaragua, and ending at Monkey Point, on the Caribbean Sea.

The new customs tariff law of December became effective upon its promulgation and was supplemented by a decree of March 6, 1909, whereby, in order to counteract the disastrous effects of inundations in the Atlantic coast regions and for the purpose of stimulating the commercial transactions, certain articles were permitted entry through Atlantic ports at a reduction of 30 per cent from the fixed rates.

Government monopoly of the match industry was decreed from January 8.

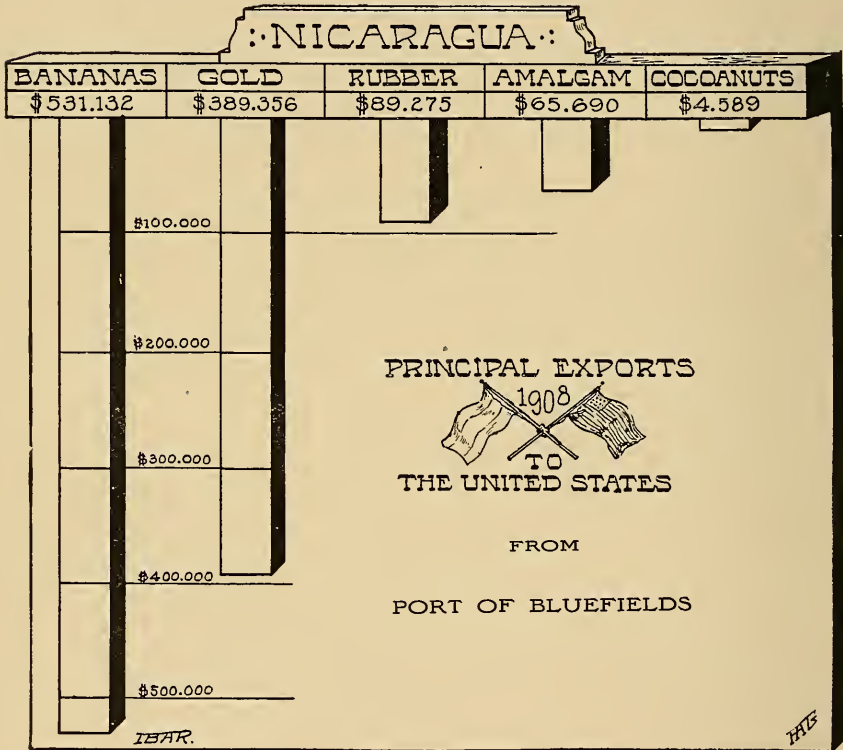
## COMMERCE.

Figures of the foreign trade of the country for 1908 show a total valuation of \$7,500,000, comprising imports to the value of \$3,000,000 and exports \$4,500,000. The commercial transactions with the United States occupy first place, from which country imports were received during 1908 to the value of \$1,297,163; Nicaraguan merchandise being shipped thither valued at \$1,034,131, according to United States statistics. Both branches of trade show a slight decline as compared with the preceding year.

Consular statements report shipments from Bluefields to the United States of 1,298,000 bunches of bananas, valued at \$531,133. Other

articles exported included 24,970 ounces of gold, worth \$389,357; 166,152 pounds of rubber, \$89,275; amalgam (gold), \$65,691; and cocoanuts numbering 173,100, valued at \$4,589. Exports to the value of \$311,010 were made from the port of Cape Gracias á Dios and included gold, \$292,421; hides, \$3,036; and rubber, \$15,552.

In 1906, the latest year for which commercial details are available, Nicaragua's total trade values aggregated \$7,639,877.53, exports accounting for \$4,231,047.88 and imports for \$3,408,829.65. The United States, England, Germany, and France are the leading factors



in the trade of the country, receiving and furnishing the following valuations:

Exports: United States, \$2,492,485; England, \$452,142; Germany, \$458,718; France, \$480,502.

Imports: United States, \$1,914,961; England, \$776,133; Germany, \$400,389; France, \$193,661.

With the adjoining countries of Central America about \$300,000 cover the value of the exchange of commodities.

Coffee constitutes the leading item of export, 19,378,216 pounds being shipped in 1906, valued at \$1,375,679. Bananas occupy second

place with 1,401,595 bunches, valued at \$700,069; followed by gold bullion, \$527,423; gold amalgam, \$343,546; rubber, \$385,472; mahogany, \$284,320; cattle, \$133,044; hides, \$120,367; cocoanuts, \$90,953; silver coin, \$44,220; sugar, \$23,467; and cedar, \$41,465.

#### PRODUCTION AND INDUSTRIES.

Agriculture and mining are the principal sources of national wealth. The area under cultivation has increased in recent years, the chief product being coffee. Nicaraguan coffee is of superior quality and commands good prices, the finest plantations lying in the western districts. In Matagalpa and Jinotega the crops are worked by colonies of Americans and Germans, who apply the natural water power of the country to the operation of such machinery as is required.

The coffee yield for 1907-8 was about 14,000,000 pounds and the estimate for 1908-9 is 16,800,000 pounds.

A decree of November 24, 1908, reestablishes the general tax on coffee exports at the rate of 40 cents gold per hundredweight.

Sugar growing is profitably exploited; the production in 1907, including the by-products, molasses, aguardiente, and alcohol, showing a total valuation of \$1,122,400, the plantations being estimated as worth \$1,650,000. These plantations had 931 wooden and 225 iron mills in operation and turned out nearly 4,000 tons of refined sugar.

Although cacao ranks in importance after both coffee and sugar among the cultivated resources of western Nicaragua, it is recognized as a remunerative product. At present the entire output is consumed in the country, the selling price being from 20 to 25 cents gold per pound. Two varieties of cacao trees are grown, and the Government is encouraging the industry by granting premiums for every planted tree coming into bearing. The average yield from each tree is about 2 pounds when in full bearing, or about 600 pounds to the acre.

Bananas are grown in large quantities in the Bluefields region and shipped to New Orleans. A tract of land about 15,000 acres in extent, growing 100,000 banana plants, is one of the recently granted concessions on the Atlantic coast, and another more extensive grant of land is to be opened up on the west coast. The cost of planting and maintaining 200 acres with 35,000 plants is about \$4,000.

Tobacco is grown in several districts, the best being produced on the island of Omotepe, in Lake Nicaragua. Tobacco growing is regulated by the Government, which has leased to a syndicate the fiscal revenues obtained therefrom for a period of twenty-four years from January 1, 1908. The contract covers all kinds of tobacco, domestic or foreign, in whatever form it may be handled, planted,

manufactured, used, imported, or sold. In exchange the syndicate is to pay to the Government the sum of \$200,000 annually.

Rubber is collected in the forests and there are young plantations on the coasts. In accordance with a decree issued on July 18, 1908, owners of rubber lands must register them, stating the names of properties, situation, approximate extent, number and age of trees, stage of development, and estimated annual product. The exportation of rubber is also subjected to certain formalities, the violation of which subjects the exporter and the customs administrator who permits the shipment to a fine of not less than 50 per cent of the value of the rubber exported.

The forests also contain mahogany and cedar which figure largely in the country's exports, many valuable timbers, dyewoods, and



COMMERCIAL STREET, BLUEFIELDS, NICARAGUA.

Bluefields occupies a height overlooking the capacious landlocked harbor at the mouth of the Rama River, which empties into the Caribbean Sea. Large quantities of bananas are grown in the vicinity and shipped to New Orleans. Bluefields is also the center of a considerable mining industry.

medicinal plants. Gums and resins abound, and the native camphor tree is said to yield a variety equal to that produced in the Far East. Vanilla of an excellent quality grows freely, and senna is a native product.

Cattle, horses, and swine are reared, the number of cattle being estimated at about 1,200,000.

Manufacturing industries are confined mainly to articles of domestic consumption, and include the manufacture of furniture, boots and shoes, sugar, rum, beer, candles, cigars, cigarettes, and soap.

Of the more than 500 mines registered in the Bureau of Statistics of the Republic, 494 are producers of gold, while silver, copper, and quarries of valuable stone are scattered throughout the country.



These resources are being exploited as rapidly as possible under various concessions held by natives and foreigners.

The latest mining law modifies in some important particulars the law of 1906, and its provisions are adapted to the encouragement of immigration.

The importance of Nicaragua as a mining country has been recognized, more particularly by American capitalists, who have, during the last few years, prospected the various fields and invested large sums of money in development work and machinery.

A few English companies have secured mining concessions in various districts, and it is probable that increased investments will be made by them in the mines of the country. A number of the principal mines on the West Coast, included in which are the Santa Francisca, San Lucas, Amaya, San Cristobal, Quilali, and San Juan Tetelpaneca, are in the hands of English capitalists, while the Leonesa mine, near Matagalpa, has recently been acquired by a company largely interested in West Australian mining properties.

The Atlantic slope is the great placer-mining district of the country, Prinzapolka being the center of active operations at present. There are rich quartz mines in this district, among which are La Luz and Los Angeles, owned by Americans. In the district of Leguoa large gold-bearing reefs are known to exist, but they are at present undeveloped. The quartz veins of the West Coast contain from one-half ounce to 2 ounces per ton gold. Some London companies—the Leon Syndicate and the Santa Francisca Company—are extensively engaged in operations there.

An estimate of the gold exports of Nicaragua for 1908 fixes the valuation at \$933,171. Duties on gold are paid in export bonds.

Several mines are not operated at present, owing to a change in machinery, but those of La Libertad, Santo Domingo, and in the Matagalpa district are being successfully worked, shipments being made from the Pacific side with destinations at San Francisco, England, and Germany.

About 100 square miles of fine mining property are held by the La Villebeuvre concession, and the United States and Nicaraguan Company have property rights in several thousand square miles of ground, covering mining, railroad, telegraph, and river navigation claims, on which they have spent \$1,000,000. Another company holds mineral rights to about 45,000 acres, also concessions for dredging the three small rivers between Bluefields and Greytown, along which the lands lie.

The outlook for an increased development of this industry is very encouraging, and some concessions which have withdrawn from the public vast areas of valuable lands may shortly be declared forfeited for failure to comply with the terms of the grant. A railway to

penetrate the heart of the mining district, passing through a rich agricultural section, is projected, and will be a contributing factor to an increased mineral production.

#### COMMUNICATION FACILITIES.

About 200 miles comprise the railway extension in the Republic. In the surveys for an Intercontinental Railroad from New York to Buenos Aires, the National Railroad of Nicaragua was accepted as one of the integral parts of the system, the portion embraced extending from Corinto to Granada. This is a narrow-gauge line, 171½ miles long, the invoiced value of which is \$3,155,941.

Since 1903 the railway has been leased to a company, and notable improvements have been made. Receipts from the line in 1906 were \$2,251,233 and expenditures, including repairs, were \$2,369,692. The rolling stock consists of 15 large and 3 small locomotives, 3 baggage cars, 46 box cars, 10 first-class and 13 second-class passenger coaches, and 77 platform and other cars. Repair shops are at Managua and Ameya.

From Monkey Point, on the Atlantic, a railroad is under construction to extend to San Miguelito, a distance of 116 miles, and a road has been surveyed from Momotombo, on Lake Managua, to Matagalpa. Connection is now made from Momotombo to Managua by steamers.

Tramway lines are in operation in Granada, Rivas, and San Juan del Norte.

With a coast line of nearly 300 miles on the Caribbean Sea and of 200 miles on the Pacific Ocean, Nicaragua has been favored by nature with a number of excellent bays and ports, affording ample facilities for the handling of the numerous products of export and import. On the Atlantic side the principal ports are Gracias a Dios, Bluefields, and San Juan del Norte, or Greytown, while on the Pacific side are Corinto and San Juan del Sur.

The Atlantic ports can be reached either from New York, New Orleans, or Mobile by the steamers of the Atlas Line or the Bluefields Steamship Company, the latter maintaining a regular fortnightly service between New Orleans and Nicaraguan ports, making the run in four days, and charging \$40 for first-class passage.

The Pacific ports can be reached via San Francisco by the Pacific Mail Steamship Company or the Kosmos Line, both of which maintain a regular service on the West Coast, sailing from San Francisco about every ten days. The time employed by either of these steamers between San Francisco and Corinto or San Juan del Sur is from twenty-three to twenty-four days, the charge being \$110.

A new line of German steamers has been established to ply between Corinto, Nicaragua, and Seattle, Washington, touching at the principal Central American ports of the Pacific coast and at San Francisco. A monthly service will be maintained.

A five-year concession grants the right to introduce Chinese and Japanese immigrants into Nicaragua for employment as laborers in connection with plantations and other industries in the country. This concession, however, is conditioned on the establishment by the concessionaires, within the period of one year, of a line of steamers from Hongkong, touching at Shanghai, San Francisco, Salina Cruz, and Central American ports, including Corinto and San Juan del Sur.



AMERICAN LEGATION AT MANAGUA, NICARAGUA.

Three gunboats of the Nicaraguan navy are to be disarmed and used for passenger and freight traffic between Puntarenas, Costa Rica, and Acajutla, in Salvador, touching at all the intermediate ports.

The hydrographic system of Nicaragua is very extensive, and its numerous rivers, together with its large lakes, give excellent facilities for transportation and communication.

The most important of these is the river San Juan, which has a total length of 140 miles and is navigable almost in its entirety, flowing into the Nicaragua Lake, and by means of which communication

is established with the important cities in that region, as well as with the capital itself. A regular triweekly steamship service is maintained on the San Juan River between San Juan del Norte, at the mouth, and the city of Granada, on Lake Nicaragua. From Granada a railway extends to Managua, Leon, and the Pacific port of Corinto.

The Rio Coco, Wanks, or Segovia is navigable for some 240 miles, the last 110 miles of which, however, are only navigable for small vessels of light draft, and the Rama is navigable for some 40 miles, as far as the city of Rama, while the Rio Grande, although one of the largest streams, is navigable only partially, owing to its rapids, which make navigation dangerous and difficult.

Lake Nicaragua has an extension of 96 by 40 miles, is navigable throughout for large vessels, and contains a number of islands, of which the island of Ometepe, 12 miles in length, is the largest. It is one of the prettiest and most picturesque lakes of America and the largest in Central America.

Lake Managua, situated but a short distance from Lake Nicaragua, with which it is connected by the Tipitapa River, is 38 miles long and from 10 to 16 miles wide, it being likewise navigable. The capital of the Republic, Managua, as well as a number of smaller towns, are situated on its shores.

Post-offices number 135, and telegraph wires have an extent of 3,150 miles. The United States Government has installed a wireless telegraph station, with a range of over 500 miles, at Swan Island, off the coast of Nicaragua, and the United Fruit Company has active stations at Bluefields and Rama, which are both of high efficiency.





# PANAMA

The Isthmus of Panama, which comprises the Republic of Panama and the Canal Zone, forms the connecting link between Central and South America. It is bounded on the north by Costa Rica and on the south by Colombia.

It has an area of 32,380 square miles, nearly equal to that of the State of Maine, and a population of 361,000, or 11.1 per square mile, being less than one-half the population per square mile of the United States of America.

Two mountain chains traverse the territory of the Republic, inclosing various valleys and plains which afford excellent pasturage for cattle and in which all the products of the Tropical Zone are raised. The slopes of the mountains are covered with extensive forests.

Among the products for export, bananas, cacao, indigo, tobacco, sugar cane, india rubber, vegetable ivory, turtle shells, pearls, and mahogany are the most important.

## HISTORICAL SKETCH.

RODRIGO DE BASTIDA is said to have first discovered the coast of Panama, but it was left for COLUMBUS to explore the country and attempt a settlement. On November 2, 1502, he entered the harbor of what is now Puerto Bello and planted a colony. The Indians, unlike those of most other American localities, opposed the invaders, destroyed the settlement, and forced the colonists to take to their ships. Other settlements which from time to time were attempted fared no better, and it was not until 1510, when DIEGO DE NICUESA was appointed Governor of the Province of Castilla del Oro, extending from the Gulf of Darien to Cape Gracias a Dios, that the Spaniards succeeded in firmly establishing themselves on the Isthmus at Nombre de Dios. ENCISO, who succeeded NICUESA, shortly afterwards founded Santa Maria la Antigua del Darien, which was to be the basis of operations for many years to come. Subsequently, VASCO NUÑEZ DE BALBOA crossed the Isthmus of Panama after a journey of twenty-six days and discovered the Pacific Ocean on September 26, 1513. He claimed possession in the name of the King of Spain of the ocean and all the lands washed by it.

DON PEDRO ARIAS DAVILA, popularly called PEDRARIAS, became Governor of Castilla del Oro in 1514, and in the year 1518 founded the city of Panama.

Panama and Darien became the treasure ports from which all the gold of Peru was shipped to Spain. This naturally attracted the numerous buccaneers who at that time infested the waters of the West Indies, and both of these cities were many times attacked during the sixteenth and seventeenth centuries. Among these the most formidable was HENRY MORGAN, who in the year 1671 captured the city of Panama and completely destroyed it. It was refounded, however, on January 21, 1673, by the then Governor DON FERNANDEZ DE CORDOVA Y MENDOZA, some 3 miles distant from the old site.

WILLIAM PATTERSON, a Scotchman, also attempted a settlement on the Isthmus, having been granted letters patent from the Scotch Parliament. On November 2, 1689, he landed at a place near what is now known as Puerto Escosez with 1,200 settlers. The colony did not prove successful, and in the year 1700 the Spanish authorities forced its abandonment.

In 1718 the viceroyalty of New Granada was created, Panama being incorporated therewith.

On November 28, 1821, Panama declared her independence of Spain, and, owing to the fact that the Spanish military governor, Don JOSÉ DE FABREGA, was in sympathy with the revolutionary movement, independence was secured without bloodshed, Panama becoming a State of the Republic of Colombia:

Movements for independence were at different times initiated, but it was not until the year 1903 that the independent Republic of Panama was born. On November 3 of that year the people of the city of Panama declared themselves free from Colombia. This revolution, like the first, was bloodless, and thus the youngest Republic presents the unique spectacle of having accomplished both her independence from Spain and her secession from Colombia peaceably.

According to the treaty signed between the Republic of Panama and the United States of America on November 18, 1903, the latter country acquired the necessary land to build a ship canal from ocean to ocean, and a strip of land 5 miles on each side of the center line of the route of the canal to be constructed. The proposed canal is to be 50 miles in length and extends from the city of Colon, or Aspinwall, to the city of Panama. The United States of America also acquired possession of the small islands of Perico, Naos, Culebra, and Flamenco, in the Bay of Panama.

On February 13, 1904, the constitution of Panama was promulgated, and on February 20, 1904, MANUEL AMADOR GUERRERO was inaugurated as first President of the Republic.

## CONSTITUTION AND GOVERNMENT.

Under the constitution the legislative power is vested in the National Assembly, composed of one chamber with 32 members. Deputies are elected by direct vote for a term of four years in the proportion of one for every 10,000 inhabitants or fraction over 5,000.

The President is likewise elected for a term of four years by popular vote, every citizen over 21 years of age being entitled to suffrage. He may not be reelected for the term immediately following his own. There is no Vice-President, but the assembly appoints three *designados* every two years, the first *designado* taking the place of the President in the event of his absence or disability.

There is a supreme court of five judges appointed by the President for a term of four years, a superior court, several circuit courts, and a number of municipal courts. The judges of the superior and circuit courts are appointed by the supreme court for four years and the municipal judges by the judges of the circuit courts for a term of one year.

## INTERIOR GOVERNMENT.

Panama is politically divided into seven Provinces, which are again subdivided into municipalities, the former being administered by a Governor, appointed by the President of the Republic for a term of one year, while the latter are governed by a *Consejo Municipal*, elected by direct vote for a term of two years, and an *alcalde*, or mayor, appointed by the Governor of the Province for a term of one year.

The Provinces and their capitals are:

	Capital.
Province of Panama.....	Panama. <sup>a</sup>
Colon.....	Colon.
Cocle.....	Penonome.
Los Santos.....	Los Santos.
Veraguas.....	Santiago.
Chiriqui.....	David.
Bocas del Toro.....	Bocas del Toro.
President.....	Señor D. JOSÉ DOMINGO DE OBALDÍA.
Secretary of Foreign Affairs.....	Señor D. SAMUEL LEWIS.
Secretary of Government and Justice.....	Señor DR. RAMÓN M. VALDES.
Secretary of the Treasury.....	Señor DR. CARLOS A. MENDOZA.
Secretary of Fomento.....	Señor D. JOSÉ E. LEFEVRE.
Secretary of Public Instruction.....	Señor DR. EUSEBIO A. MORALES.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The salary of the President is \$18,000 per annum.

<sup>a</sup>Also capital of the Republic.

## PANAMA IN 1908.

The late President of Panama, Dr. M. AMADOR GUERRERO, who was succeeded in October, 1908, by the present executive, Señor DOMINGO DE OBALDÍA, delivered an interesting message to the National Assembly on September 1, 1908, in which a résumé of the general conditions existent throughout the country, showed a satisfactory status for the young Republic. The desire on the part of the Government to adequately exploit the resources of the country is evidenced by the granting of concessions, the establishment of telegraph and telephone lines, opening of new steamship services, and such revisions of the tariff as the economic conditions demand, while the operations of the new land law promulgated in January, 1909, will throw open large tracts of desirable properties to settlement.



SR. DON DOMINGO DE OBALDÍA  
PRESIDENT OF PANAMA.

## FOREIGN AFFAIRS.

The Republic continued to maintain amicable relations with the nations of the world and was represented at the Second International Peace Conference held at The Hague, while the negotiation of treaties with the United States and Colombia is an earnest of future prosperity and of amity with the Republics concerned. Improved trade conditions are resulting from the application of beneficial concessions, and the arbitral settlement of international questions is in keeping with the standard of civic virtue required by the new ideas of civilization.

The final report of the Commissioners appointed by the Governments of the United States and Panama, in accordance with the treaty of November 18, 1903, concerning claims arising out of the construction and conservation of the Panama Canal, was made during the year.

A postal convention concluded with Italy in January, 1909, provides for the exchange of postal parcels of specific weight and dimensions and money orders, considerably enlarging the scope of this branch of the Government service, and the appointment of the Pan-American committee, charged with the preparation of Panama's participation in the Fourth Pan-American Conference to be held in Buenos Aires during 1910, indicates the interest of the Government in world affairs.

## FINANCE.

The report of the Secretary of the Treasury for the six months ending June 30, 1908, showed the total cash assets of the Government



on that date to be \$7,860,696.68, of which \$6,000,000 gold was invested in first mortgages on real estate in New York City at  $4\frac{1}{2}$  and 5 per cent interest. In addition the Republic was carrying in account current \$1,505,307.03 in the same city.

The national receipts during the six months covered by the report amounted to \$1,259,574.15, while the balance, after paying the expenses of the Government for the same period, amounted to \$105,307.03, turned into the National Treasury. The revenues for 1907, accruing principally from customs duties and excise taxes, amounted to \$2,439,302.

The budget for the period from January 1, 1909, to December 31, 1910, estimates the total revenues for the two years \$4,492,000, and expenditures at \$6,877,469.65. The revenues are made up from the following items: Import and export duties, taxes on liquors, tobacco, matches, coffee, opium, salt, steamship companies, and money changers, \$2,714,000; consular fees, manufacture and sale of liquors at retail, slaughterhouses, mines, patents, sealed paper and stamps, registration, real estate, lotteries, pearl fisheries, sale of federal properties, including lots and light-houses, \$988,000; posts and telegraphs, parcels post, public market of Panama, public land, and various other sources, \$207,000; and interest on \$7,700,000 to the amount of \$583,000. The estimated disbursements are placed at the following figures: Department of Interior and Justice, \$2,632,004; Foreign Relations, \$499,220; Treasury, \$720,882.50; Public Works, \$1,902,430.35, and Public Instruction, \$1,122,932.80.

The many public improvements undertaken by the Government of Panama and the establishment of new industries render significant the fact that in the disbursement of moneys for 1909 public works and public instruction, taken conjointly, are apportioned the largest share of the budget expenditure. The Assembly has furthermore appropriated the sum of \$85,000 for defraying the expense of a census, work on which has already begun.

During the past four years the disbursements of government funds for current expenses and public improvements was only \$1,859,320.66 in excess of the receipts from the regular sources of revenue, which are import duties on foreign merchandise and internal taxes on liquors. This excess represents improvements of a substantial nature made throughout the entire country.

#### COMMERCE.

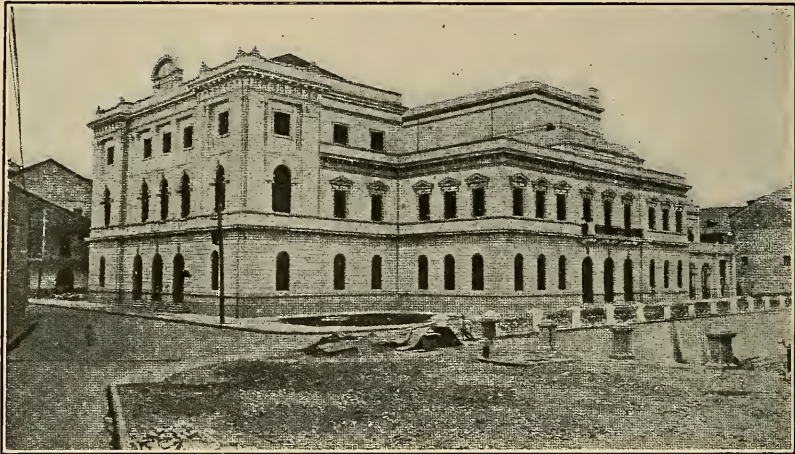
The total trade for 1908 aggregated \$9,563,946, of which imports amounted to \$7,806,811, and exports were estimated at \$1,757,135. Of the imports the principal commodities were: Vegetable products, \$1,879,296.72; agricultural products, \$1,258,900.72; textiles, \$1,187,802.38; mineral products, \$788,068.67; wines and

liquors, \$675,703.20. As a country of origin for imports, the United States leads in all articles except textiles, Great Britain ranking first as country of origin for this product.

A classification of exports for 1908 showed vegetable products to the amount of \$1,539,395.45; animal products to the value of \$135,207.15; mineral products in the sum of \$79,620.59, and miscellaneous products amounting to \$2,912.34.

The export destinations for the year 1908 were: United States, \$1,587,216.69; Great Britain, \$113,037.71; Germany, \$34,495.35; France, \$11,639.50; Spanish America, \$8,413.28; and Austria-Hungary, \$2,333, a total of \$1,757,135.53.

The total trade for the year with the United States, according to the trade statistics of that country, amounted to \$18,247,155, of



GOVERNMENT PALACE, CITY OF PANAMA, PANAMA.

which import values, including canal supplies, figured for \$16,799,630, and exports for \$1,447,525.

For the year 1907 the imports from the United States, not including shipments for use by the Isthmian Canal Commission, amounted to \$5,196,964, and from other countries \$4,367,486, a total of \$9,564,450. To this should be added goods imported free of duty for use by the Isthmian Canal Commission amounting to \$13,468,359. The exports for the year reached a total of \$1,960,665.70, over 70 per cent of the total value being represented by bananas. The shipments of bananas during 1908 reached a total of nearly 4,000,000 bunches, most of which were shipped from Bocas del Toro. These form the largest single item in the exports of the Republic and are practically all shipped to the United States. Other items on the export list are hides, rubber, cocoanuts, limes, native curios, and quaqu bark.

In anticipation of banana shipments to Europe and of increased commerce with Panama, the Hamburg-American Line has equipped its vessels with refrigerating apparatus.

#### PRODUCTION AND INDUSTRIES.

The soil of the Republic is of marked fertility, and climatic conditions induce a luxuriant growth of tropical vegetation. Only a small part of the area of the Republic is under cultivation, although the Government, alive to the importance of agriculture as a factor in the development of the resources of the country, is interesting itself in promoting the cultivation of coffee, cacao, cocoanuts, rubber, vanilla, and sugar cane, all of which articles are exempt from taxation. Inducements have been offered to Spanish and Italian agriculturists to settle in various parts of the Republic.

The cultivation of bananas is the principal industry, and the acreage devoted to the production of this fruit shows a steady increase from year to year. Attention is also being given to the cultivation of other products. Cacao is at present grown only on a small scale, the export value reaching only about \$6,000, while rubber, which is now produced on a scale similar to cacao, could easily be developed into an extensive and profitable industry. It grows wild in the interior of the Bocas del Toro district, where it is gathered by Indians and brought to Bocas del Toro for shipment. Sarsaparilla is not cultivated, but grows wild in great abundance, and coffee is grown in the Province of Chiriqui near the Costa Rican frontier. In the Province of Cocle, on the Atlantic coast, an agricultural enterprise financed by German capital has undertaken the cultivation of cacao, coffee, and rubber, and returns are already being received. Sugar cane is cultivated to some extent and grows wild in many parts of the country, and could be cultivated to advantage. The Government has recently made a contract with an American citizen providing for the erection of a sugar mill on the public lands of the Republic and the establishment of a sugar refinery to be operated in conjunction with the same. The tariff on sugar products to be used in the manufacture of liquors has been raised to \$2.50 per 110 pounds.

Another refinery at the capital, with a capacity of 500 tons, or an output of 1,000 bags of 100 pounds of refined sugar daily, has been contracted for. This refinery is to be exempt from national and municipal taxes on the sugar produced, in addition to which the Government agrees to admit free of duty all requisite material, machinery, and implements to be used in construction. The concession carries with it a large grant of land and provides for a gradual increase of the acreage planted on a progressive scale. The plans also provide for a post-office and school and for a comprehensive study of

the industry by students assigned to the refinery for that purpose by the Government.

The forests of the Republic contain an abundance of cabinet, dye, and building woods which under proper exploitation could be a profitable field of enterprise.

The stock-raising industry is also being encouraged by the importation, free of duty, of blooded animals for breeding purposes from the United States, England, and Jamaica. Statistics place the live stock in the Republic at 114,500 head in the following distribution: Cattle, 65,000; hogs, 28,000; horses, 17,000; goats, 3,000; and mules, 1,500.

In mining the Republic is being extensively prospected, and 40 new claims were announced in 1907 as compared with 31 in 1906. Many of the rivers and points near the seashore contain gold in small quantities, while some of the deposits in the interior might be profitably worked. Gold bullion was shipped from mining properties near Darien in 1907 to the amount of \$170,000.

Deposits of coal of a good grade and of copper have been located in the interior of the Republic.

#### COMMUNICATION.

The railroad from Colon to Panama, 47 miles in length, is the most important transportation route of the Panama Isthmus.

This road, operated largely in behalf of work on the canal, transported in 1907 merchandise from the United States to the value of \$12,000,000, and in 1908 to the value of \$9,500,000. Of merchandise hauled over this railway, \$8,500,000 moved from the Atlantic to the Pacific, of which \$2,750,000 was destined for western ports of the United States and \$5,750,000 for foreign countries on the Pacific coast of North and South America. Of this amount, Ecuador, Peru, and Salvador took \$1,000,000 each; Panama, \$750,000; Honduras and Nicaragua, nearly \$500,000 each; and \$333,000 each to both Colombia and the western coast of Mexico. Of the \$2,750,000 from the eastern to western coast of the United States by way of the Panama Railway, practically all originated in New York and was shipped to San Francisco. The eastbound merchandise passing through Panama amounted to a little more than \$1,000,000 and was shipped exclusively from San Francisco, all of it to New York City. Interest in the construction of the canal across the Isthmus has been heightened by its announced completion in 1915.

The favorable position of the Republic of Panama, almost in the center of the American Continent, places it within easy reach not only of North and South as well as Central America, but also of Europe, and numerous steamship lines on both the Atlantic and Pacific oceans maintain a regular service with the ports of the Republic.

A number of large bays and ports furnish ample facilities for the largest ocean-going vessels, those on the Caribbean Sea being Colon or Aspinwall, Bocas del Toro, Chagres, Porto Bello, Bastimenios, Nombre de Dios, Palenque, and Escribanos, and on the Pacific side Panama, Pedregal, Puerto Muits, Chitre, Mensabe, Puerto, Posada, San Carlos, Aguadulce, and Real de Santa Maria.

The city of Colon is but 1,382 miles distant from New Orleans, and 1,972 miles from New York, while Panama is 3,277 miles distant from San Francisco.

The Panama Railroad Company's steamers leave New York every fifth day for Colon, making the run in six days, the charge being \$70 for the first-class passage, the charge to Panama, including railroad fare from Colon being \$76.05.

The Royal Mail Steamship Company maintains a regular service between New York and Colon, leaving the former port every alternate Saturday, the time and fare being the same as that of the Panama Railroad Company. The Atlas Line steamers leave New York once a week for Colon.

The United Fruit Company's steamers, sailing from New York, New Orleans, and Mobile, call at both Colon and Bocas del Toro, the time employed between New Orleans and the latter port being five days, and the charge \$35.

On the Pacific coast the Pacific Mail Steamship Company and the Kosmos Line have regular communication between San Francisco and Panama, making the run in from twenty-one to twenty-three days. Vessels of the Pacific Steam Navigation Company and of the *Compañía Sud-Americana* run between Panama and ports of Ecuador, Peru, Chile, and the first-named line on to Buenos Aires and Montevideo. It is reported that the Pacific Mail Steamship Company is about to discontinue its Panama service.

Several of the rivers of Panama might afford navigation facilities were it not that owing to tropical rains they are apt to rise suddenly, rendering transport difficult and dangerous. The Tuyra is navigable for small vessels for about 100 miles, and the Chagres, the Bayamo, the Cocle, Calabebora, Tarire, and Los Indios are all navigable for small craft from 20 to 75 miles.

A number of almost land-locked lagoons are found along the shores. Belonging to the Republic, aside from the islands in Panama Bay ceded to the United States of America, there are the islands of Taboga, nearly 2 miles long; Taboguilla, Urava, Chame, Valladolid, Coiba, Chepillo Cebaco, and Las Perlas, so called owing to the valuable pearls found there. The Las Perlas group is composed of 39 islands and some 70 islets, most of which are fertile and covered with forests, presenting a most pleasing aspect.

On the Atlantic side the largest islands are the island of Manzanillo, Escudo de Veraguas, and the archipelagos of Las Mulatas and Bocas del Toro.

The encouragement of steam navigation by the administration has been marked by the subsidizing of a company to establish a service on the Pacific coast, which is being operated with satisfactory results. The company operating between David and Panama has five steamers on the line and the enterprise is proving a paying one.

#### POSTS AND TELEGRAPH.

The foreign postal service is being operated in a satisfactory manner and in accordance with the provisions of the Universal Postal Union, and the Republic has from time to time celebrated a number of postal conventions with different countries of Europe and America. Interior postal facilities are ample for present wants, but measures are to be enacted for the extension and betterment of the service to meet the growing demands of the country.

The National Assembly has authorized the President to complete the double-wire telegraph line from Panama to Veraguas, to construct new lines, and extend the telephone system. An appropriation of \$100,000 was made for this purpose.

At Colon the United States Government has a high-power wireless telegraph station in operation, and the United Fruit Company has a station at Bocas del Toro in connection with their stations in the neighboring countries. The Central and South American Cable Company has increased its equipment by an overland cable between Colon and Panama, thus creating an all-cable service between Buenos Aires, Valparaiso, and the west coast of South America, the United States, and Europe. A connection has also been established with Guanatanamo, Cuba.

#### INSTRUCTION AND PUBLIC WORKS.

A keen interest is manifested in public education, and there has been considerable improvement in primary instruction in the Republic. In the capital a School of Arts and Trades has been established which promises to become one of the most useful institutions in the country. A training school has also been established to supply teachers for the education of the aborigines. Schoolhouses and public buildings have been erected in the principal towns, and the active cooperation of the Government is marked by many improvements in educational methods.

An appropriation of \$10,000 has been made by the National Assembly for establishing agricultural colonies in the Republic, and arrangements have been made for the introduction of suitable immigrants. The civilization of the savage tribes of Indians inhabiting

parts of the country has also been undertaken. The colonization project of the Government includes the grant of suitable lands to families or individuals settling at places designated by the Government and supplying them with seed, tools, stock, and other indispensable articles. Fifteen scholarships in the School of Arts and Trades in the city of Panama have been established for the natives of the coast of San Blas and Darien and a sum of \$5,000 set aside for the purchase of antiquities representing the work of the aborigines of America.

The new patent and trade-mark law of the Republic was promulgated November 14, 1908.

Many public works have been successfully terminated, the most important of which are the Government Palace and the National Theater, erected at a cost of a little over \$700,000. The former is already in use and the latter will soon be opened to the public. Water-works and sewerage systems have been established at Panama and Colon, roads constructed, and streets paved. Other improvements contemplated by the administration include better harbor facilities and the installation of electric power plants for municipal lighting and transportation.

On December 26, 1908, a law was promulgated by the President providing for free entry of articles for use in the development of the agricultural and pastoral industries; for purposes of public education; by the Canal Commission under the terms of the treaty of November 18, 1903, and certain other articles expressly provided for by contracts now in force.



# PARAGUAY

The Republic of Paraguay, one of the two inland countries of America, is situated between latitude  $22^{\circ} 4'$  and  $27^{\circ} 30'$  south and longitude  $54^{\circ} 32'$  and  $61^{\circ} 20'$  west of Greenwich, between the Republics of Bolivia, Brazil, and Argentina.

Paraguay has an area of 196,000 square miles, equal to that of the States of California and Maine, and a population of 636,000 inhabitants.

With a tropical climate considerably modified and made healthful by several mountain chains and an extensive hydrographic system, most of the products of the tropical and temperate zones are successfully cultivated. The extensive valley of the Gran Chaco affords excellent pasturage for cattle, and the slopes of the mountains are covered with luxuriant forests, where many useful woods and medicinal plants are to be found.

The valuable quebracho wood, used extensively for tanning and also as railway ties, and maté, or Paraguay tea (the leaves of the *Ilex paraguayensis*), are the most important articles of export, the latter going mostly to the other South American Republics, where it is a popular beverage. Lapacho, curupay, and cedar are valuable woods found in considerable quantities, while oranges, tobacco, coffee, rice, cotton, manioc, and sugar are exported.

## HISTORICAL SKETCH.

The country now comprising the Republic of Paraguay was first discovered by SEBASTIAN CABOT, who, in the year 1526-27, explored the upper Parana and Paraguay rivers and the adjacent country. He was followed by JUAN DE AYOLAS and DOMINGO IRALA, who, on August 15, 1536, founded a settlement on the present site of Asuncion, the capital of the Republic.

Subsequently ALVARO NUÑEZ CABEZA DE VACA, famous for his explorations in North America, was appointed Governor of the Province of Paraguay, which at that time comprised all of the country drained by the La Plata, and disembarking in the year 1542 at Santa Catharina in Brazil, proceeded overland to his destination. He reached Asuncion after a journey of one hundred and thirty days, having traversed more than 1,000 miles of hitherto unexplored and practically unknown territory.



DON HERNANDO ARIAS DE SAAVEDRA became Governor in 1591, and at his invitation the Jesuit missionaries came to Paraguay, arriving in 1608. They treated the Indians kindly, and by founding schools and missions soon gathered thousands of the aborigines around them, forming practically an independent State which thrived for many years. Their power was finally broken in the year 1769, when the King issued a decree expelling all Jesuits from the Spanish colonies in America.

Paraguay was then nominally under the jurisdiction of the Viceroy of Peru, but in 1776 the viceroyalty of the La Plata Province was created, including Paraguay.

When, in the year 1810, the Argentine Republic declared its independence from Spain it was the intention to include in the United Provinces of the Rio de la Plata all of the country which had formerly been under the jurisdiction of the viceroyalty of that name. The inhabitants of Paraguay, however, desired to establish an independent Republic and defeated the Argentine army sent against them, declaring their independence on August 14, 1811. The Spanish Governor VELASCO was in sympathy with the movement and was elected a member of the provisional *Junta* or Governing Board. A constituent Congress, which met on October 1, 1813, adopted a national flag and vested the administrative power in two consuls, DON JOSÉ GASPAR RODRIGUEZ FRANCA and DON FULGENCIO YERGES. In 1844 the form of Government was changed, the executive power being vested in a President, elected for a term of ten years. DON CARLOS ANTONIO LOPEZ was the first President and upon the completion of his term was reelected. He died before completing his second term, on September 10, 1862, and was succeeded by his son DON FRANCISCO SOLANO LOPEZ. The latter involved the country in a disastrous war with Brazil, the Argentine Republic, and Uruguay which lasted for five years and terminated only upon the death of LOPEZ, on March 1, 1870.

A committee of 21 then undertook to reorganize the country. It negotiated a treaty of peace with the allied powers, which was signed on June 20, 1870. A congress of representatives of the people was convened which, on November 25, 1870, proclaimed a new constitution abrogating some of the powers of the President, and completely reorganizing the government. A triumvirate composed of DON CIRILO ANTONIO RIVAROLA, DON CARLOS LOIZAGA, and DON JOSÉ DIAZ BEDOY, was intrusted with the enforcement of these measures, and in the following year DON JOSÉ SALVADOR JOVELLANOS was elected President and was inaugurated December 18, 1871. Under his wise administration and those of his successors Paraguay has gradually taken its place among the nations of America.

## CONSTITUTION AND GOVERNMENT.

The constitution of Paraguay provides for a republican form of government, with the usual division of legislative, executive, and judicial authority.

The National Congress is composed of the Senate and the Chamber of Deputies, both elected by direct, popular vote, all citizens over 18 years of age being entitled to vote. Senators are elected for a term of six years, in the proportion of 1 for every 12,000 inhabitants or fraction exceeding 8,000. The Senate is renewed by thirds every two years. Deputies are elected for a term of four years, 1 for every 6,000 inhabitants or fraction exceeding 3,000. The Chamber of Deputies is renewed by halves every two years.

The President and Vice-President of the Republic are elected by electors chosen for that purpose, for a term of four years. The President is assisted by a cabinet of five Ministers or Secretaries.

Congress is represented during recess by a Standing Committee composed of two Senators and four Deputies, which assists the President and is consulted by him on all matters pertaining to Congress.

The Judiciary includes a Superior Court, two Courts of Appeals, and a number of minor tribunals. The Superior Court is composed of three Justices, appointed by the President, with the consent of the Senate, for a term of four years.

## INTERIOR GOVERNMENT.

For administrative purposes the country is divided into departments, each under a *Jefe Politico* appointed by the President for a term of four years. These departments are again divided into municipalities, governed by an *intendente* and Municipal Council elected by direct vote of the people.

For electoral purposes the country is divided into twenty-four electoral districts.

The capital of the Republic is the city of Asuncion, with a population of 52,000. Other towns of some importance are: Villa Rica and Villa Concepcion, with 8,000 inhabitants each; Villa Encarnacion, with 8,200, and San Estanislao and Caazapa, with 7,000 inhabitants each.

President.....	Dr. EMILIANO GONZALEZ NAVERO.
Minister of the Interior.....	Señor D. MANUEL GONDRA.
Minister of the Treasury.....	Señor D. GUALBERTO CARDUS HUERTA.
Minister of Justice, Worship, and Public Instruction.....	Dr. MANUEL FRANCO.
Minister of War and Marine.....	Lieut. Col. ALBINO JARA.
Minister of Foreign Affairs.....	Señor D. EUSEBIO AYALA.

NOTE.—List of cabinet officers corrected to July 20, 1909.

The president is allowed a salary of \$7,000 per annum.

## PARAGUAY IN 1908.

Following the change of administration in July, 1908, and the assumption of the Executive office by President NAVERO in succession to General FERREIRA, peace was completely restored throughout Paraguay and the best efforts of the Government were devoted to the reestablishment of economic and financial stability. National expenditures were reduced, and the President has recommended still further retrenchment in all branches of the Government.

## FOREIGN AFFAIRS.

During 1908 the Ministry of Foreign Relations negotiated several treaties, among them one providing for the interchange of cattle with the Argentine Republic. Treaties of extradition were arranged with Great Britain, Austria Hungary, Italy, and the United States of America. A treaty of arbitration was also concluded with the latter country and the Ministry is engaged upon projected treaties with Germany and Russia, a consular convention, and a treaty of extradition with Belgium.

The boundary question with Bolivia, despite the desire of both Governments to have it adjusted, remains unsettled.

Notwithstanding the financial difficulties of the Republic, the Government was enabled to meet the service of its foreign debt throughout the year. The balance of the London loan, which represents the greater part of the country's indebtedness, amounts to \$4,139,717.64 gold. Bills are before the National Congress for the authorization of a new loan of \$10,000,000 and to fix the gold standard as the legal basis for monetary transactions.

The internal-revenue receipts for the year 1908 amounted to \$288,389.75, an increase of \$13,450.37 as compared with 1907; while customs receipts for the same period showed a decline of \$455,624.89, amounting to \$1,471,844.49 for the year. The expenditures for 1907 reached a total of \$2,189,565, and in accordance with the policy of retrenchment outlined by the Executive, this amount was reduced during the year 1908.

The new tariff of export valuations upon the products of the country became effective on January 1, 1909.

## COMMERCE.

The country's trade in 1908 shows a total of \$7,661,469, of which exports represented \$3,731,745 and imports \$3,929,724.



SR. DON EMILIANO GONZALEZ NAVERO  
PRESIDENT OF PARAGUAY.

The total value of exports of agricultural products from the Republic during the first nine months of 1908 amounted to \$1,500,000, consisting of citrus fruits to the value of \$302,000; tobacco, \$1,020,000; oil of petit grain (an extract of orange leaves), \$150,000; and fruits and vegetables, \$27,500. In 1907 there were exported from the Republic 51,690,000 oranges and 1,861,500 mandarins, while the exports from January 1 to September 30, 1908, inclusive, of these same articles numbered 123,804,000 and 6,213,580, respectively. The exports of bananas in 1908 to Rosario consisted of 13,200 bunches, valued at \$1,600. The Paraguayan banana is well received in the market of Buenos Aires and the demand for it is constantly growing, leading to increased shipments from the Republic.

The exports of essence of petit grain amounted to 21,212 kilograms for the first nine months of 1908 as compared with 10,872 kilograms for the year 1907 and 9,968 kilograms for the year 1906.

The foreign commerce of the Republic for the year 1907, the latest full year for which figures are available, amounted to \$12,233,823, of which imports figured for \$8,077,414 and exports for \$4,156,409, the trade with the United States figuring for \$170,893 and \$7,261, respectively. Both branches of trade showed advances over the preceding year, imports in the sum of \$1,450,220 and exports \$1,461,320. The trade of the Republic for 1908 with the United States amounted to \$71,665, of which imports amounted to \$55,229 and exports to \$16,347.

Of the exports in 1907, the Argentine Republic took \$1,850,610; Germany, \$566,700; Uruguay, \$475,624, and Belgium, \$268,650.

On the export list of the country in 1907 cattle products figure for \$1,000,000, covering hides, jerked beef, tallow, etc., while forest products to the value of \$750,000 included various hard woods and medicinal plants. Extract industries represent a valuation of \$1,000,000, in which maté and quebracho extract are the principal items, and in agricultural products the leading item is tobacco to the extent of 3,500,000 kilograms.

The Argentine Republic is the principal consumer of the country's exports, offering a ready market for maté, oranges, hides, tobacco, and lumber. Germany is a generous consumer of leaf tobacco, hides, timber, and quebracho extract, while hides and other products find their way into Uruguay in transit for European ports. Belgium takes tobacco and hides and Great Britain and France essence of petit grain and small amounts of leaf tobacco.

Data concerning the countries of origin of imports are not readily obtainable, although Great Britain is credited with furnishing one-half of the total, with Germany second on the list, the principal items being cotton textiles, groceries, tinned provisions, hardware, spirits, drugs, and haberdashery. Agricultural machinery, machetes, axes,

and kerosene are imported in small quantities from the United States, with increased purchases noted in American dressed hides and leather for boots and shoes. Imports of leather into the Republic average about \$38,600 annually, of which France supplies nearly one-half, with the Argentine Republic and Germany following in the order named.

The commerce of Asuncion is handled by 674 mercantile establishments, the majority being in the hands of foreigners—Germans, French, Italians, and Spaniards. There are two British firms in



A MILITARY PARADE ON PALMA STREET, ASUNCION, PARAGUAY.

The army of Paraguay is divided into infantry, cavalry, and artillery, and consists of 3,200 soldiers.

the capital and 1,728 firms of various nationalities engaged in business throughout the country.

#### PRODUCTION AND INDUSTRIES.

The resources of the Republic at present are confined mostly to the production of raw material, the industries being few in number. The principal crop is maté, of which about 17,600,000 pounds are treated annually. About one-half of this amount is exported. The plant grows wild in immense tracts in the northern and eastern sections of the Republic, being found most abundantly in the districts

of Panadero, Igatimi, San Pedro, Villa Concepcion, Caaguazu, Jesus, and Tacurupucu.

The climate and soil of the Republic are suited for all tropical growths; and rubber is grown to some extent, exports of this article in 1907 amounting to 4,400 pounds, sent principally to France. Cotton grows abundantly, and tobacco with little effort, while indigo and sugar cane yield easily to cultivation, and the forests contain many different grades of cabinet and dye woods, resins and balsams, while a native fiber plant known as *mapajo* is used by the Indians in the manufacture of a coarse textile for garments.

Tobacco is one of the leading crops, the quantity grown being estimated at 6,000,000 pounds annually. One-half of this is exported and the remainder consumed in the country. The Agricultural Bank, a Government institution, is interesting itself in improving the quality of the crop, with the idea of securing better prices, by the distribution of selected seed among the planters and erecting drying sheds for the curing of the leaf in the several districts. The leaf is graded into seven classes, ranging from the mild variety known as *pito*, and largely exported to Europe, to the coarse, strong grade called *para*, in demand in Uruguay and the Argentine Republic. The intermediate grades are consumed locally. The manufacture of cigars and cigarettes is carried on in a small way, the cigars being manufactured by one factory and selling at a low price.

The possibilities of the Republic as a cotton producer are immense, the rich and fertile soil assuring a large yield per acre. As early as 1863 there were estimated to be 58,000,000 cotton plants under cultivation in the country. The native cotton has a long, silky fiber and enjoys excellent reputation in Germany, England, and Holland on account of its fine weaving qualities.

The production of the oil of petit grain extracted from the leaves of a native orange tree is being conducted on an increasing scale, but as yet in a primitive fashion, the principal distilling plants being located about 50 miles from Asuncion, in the orange-growing district of Yaguaron. It is estimated that 300 to 350 pounds of orange leaves yield about 1 pound of essence, this product being used as a basis for various perfumes and in the manufacture of flavoring extracts.

The production of rice in the Republic is being stimulated by the National Agricultural Society, which has offered a premium of 1,000 *pesos* for the best grades.

Among the forest products of value is the curupay tree, which grows in eastern Paraguay, furnishing a hard and durable wood, in demand for railroad ties, piles, and construction work. The bark of this tree also contains tannin in sufficient quantities (from 14 to 26 per cent) to make it of commercial value in the United States and Europe.

The live-stock industry in the Republic is constantly increasing, many cattlemen from the Argentine Republic and Brazil having located in the country in recent years. The exports of meats and jerked beef are well known in foreign markets, principally Brazil, Cuba, and Spain, and the hides exported to Europe command good prices. The number of stock on the various ranges shows the following distribution: Cattle, 2,800,000; horses, 187,000; sheep, 214,000; goats, 24,000; mules and asses, 8,000. The free importation of cattle from the Argentine Republic and the State of Matto Grosso, Brazil, is permitted, if there is no disease at the point of origin of shipments and the sanitary laws of the Republic are complied with.

A law promulgated July 7, 1908, to run until 1935, provides for the granting of franchises to companies engaged in the elaboration and canning of meat products, permitting the free importation of machinery and materials to be used in the erection of the plant and the preparation of its output.

The tanneries in the Republic limit their output to sole leather, with the exception of one at Asuncion, which turns out a limited line of calf, kid, saddle, and harness leather.

The Government is interesting itself in attracting immigration, and an Italian colony has been established near the capital. The introduction of Asiatic labor is under consideration, it being regarded as feasible to employ coolies in the cultivation of rice, sugar, and tobacco throughout the Republic.

A report by the directors of The Anglo Paraguayan Company (Limited) submitted June 23, 1908, showed a surplus of receipts over disbursements. All of the lands of the company have been sold and the money received, with the exception of £2,600 for a stretch of 13,000 leagues, title to which is not clearly established.

Various minerals are found in the Republic, such as quartz, agate, opals, kaolin, iron, manganese, copper, and mercury.

#### COMMUNICATION.

The satisfactory settlement of the affairs of the Paraguay Central Railroad, which is the only line in operation through the interior, has given a new stimulus to business and the development of local resources. The length of this line is 155 miles, and the projected extension of the service for 70 miles to Encarnacion will effect a junction with the Argentine Northern Railway which is now being extended to Pasadas. The surveys for this extension have been completed and the plans presented to the Government in July, 1908. Construction will commence as soon as they are approved, the necessary material being already on the ground. It is expected that the new line will be completed before July, 1912, by which time it is

probable the Argentine Northeastern Railway will have been extended to meet it.

Another project covers a concession from the Government for a new railroad line to run from Asuncion in a southeasterly direction to the banks of the Alto Parana, in the vicinity of the Falls of Yguazu.

Paraguay is practically dependent on its waterways for means of communication and transportation, which, however, afford an efficient and convenient outlet for its products.

It lies between the rivers Paraguay and Parana, which join their waters at or near Curupaiti, at the extreme southern end of Paraguay, and together with the Uruguay River, form the mighty estuary of the Rio de la Plata, one of the largest bodies of water in the world.

The Parana River has a total length of 2,043 miles from its source in the Goyaz Mountain, Brazil, to its junction with the Uruguay, and is navigable for vessels of 12 feet draft as far as the city of Corrientes, a distance of 676 miles, from that city to the Guayara Falls, a distance of 600 miles, for small vessels, but beyond that point navigation is impeded by the Falls.

The Paraguay River is the most important waterway of the Republic, being navigable for vessels of 12 feet draft as far as the city of Asuncion and Villa Concepcion, and beyond that for smaller vessels almost in its entire length of 1,800 miles.

A number of the affluents of the Paraguay River, such as the Pilcomayo, the Jejuy, and the Tibicuary River, are navigable for short distances.

The principal shipping points of the Republic on the Paraguay River are Asuncion, the capital, situated near the confluence of the Pilcomayo River; Villa Concepcion, and Humaita. The city of most importance on the Parana River is Villa Encarnacion.

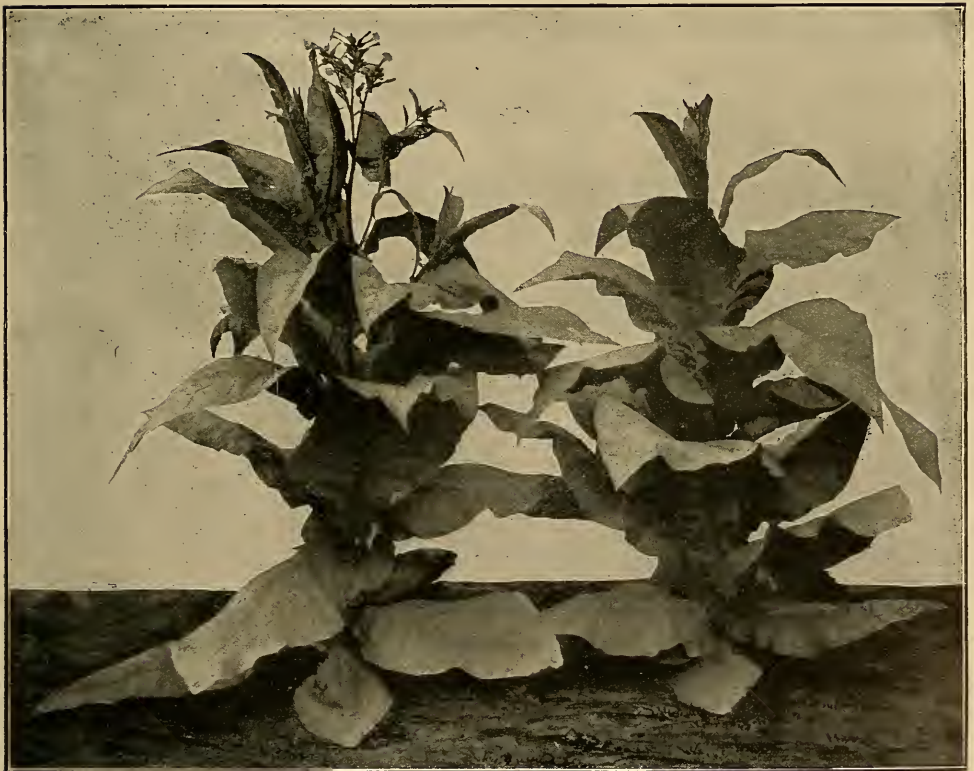
Six lines of steamers maintain a regular steamship service between Buenos Aires and Montevideo, whence transshipment is made to the Paraguayan River ports, the *Compañía de Navegación Mihanovich* having regular weekly sailings from Buenos Aires to Asuncion, the time employed being five days; first-class fare, \$25. The Lloyd Brasileiro, which now operates a regular line of steamers between New York and Brazilian ports, is expected to shortly extend its service to Buenos Aires and Matto Grosso, in Brazil, 3,000 miles inland, calling en route at Asuncion and other ports on the Paraguay River. At Asuncion connection is made with the railway, which extends inland as far as Pirapo, and which is now being extended beyond that point.

Among the lakes the most important are the Ipoa and Ipacarai, the former covering an area of over 100 square miles, neither of these being, however, navigable.



The service of posts and telegraphs has been improved in many respects. The volume of business handled during 1908 was in excess of that for 1907 and the receipts showed a corresponding increase. Various new post-offices were established and the lines of the national telegraph now reach all points on the southern frontier. It is hoped shortly to extend the service northward to the boundary with Brazil. The telegraph service, at the opening of the year 1908, had an extent of nearly 2,000 miles, 249 of which were added in 1907.

There are in Paraguay at the present time 400 public and private schools for both sexes, attended by 40,000 pupils and employing a faculty of 850 teachers. The course of primary instruction covers a period of six years. There are two normal schools. Higher education is provided for in the University of Asuncion, which offers a six years' course in law, social sciences, and medicine. Shorter courses in pharmacy and other branches have recently been added. The capital city also has a library of 10,000 volumes, many pamphlets, and magazines.





# PERU

The Republic of Peru, occupying territory on the Pacific Ocean, about 1,000 miles in length by 700 miles in width, between the Republics of Ecuador, Bolivia, Brazil, and Chile, extends over 679,600 square miles, being equal in size to the combined area of the States of Texas, Nevada, and Utah, and the Territories of Arizona and New Mexico. It has a population of approximately 4,500,000, or 6.5 per square mile, being less than one-third the population per square mile of the United States.

Peru may be geographically divided into three distinct zones, with as many varieties of climate, products, and soil. The *zona seca*, or dry zone, extends along the coast to the foot of the Andes, and in it practically nothing can be raised without irrigation, although the majority of the larger commercial centers are there located. Between the three mountain ranges are the extremely fertile and healthful plateaux, or table-lands, crowned by various high and snow-clad peaks. On the eastern slopes of the mountains are the vast, luxuriant forests, with an innumerable variety of useful woods and medicinal plants.

Coffee, cacao, sugar cane and the excellent Peruvian cotton, are the principal agricultural products for export. The mines produce gold, silver, copper, iron, coal, and petroleum in considerable quantities, especially in the Cerro de Pasco district, with its almost inexhaustible supply of copper, gold, and silver. Among the forest products are india rubber and the cinchona bark. The alpaca, a native animal of Peru, furnishes an excellent grade of wool, of which large quantities are annually exported.

## HISTORICAL SKETCH.

FRANCISCO PIZARRO, after several unsuccessful attempts, finally reached the coast of Peru in 1532. The vast Inca Empire at that time is said to have extended over more than one-half of the entire South American continent. PIZARRO found a people highly civilized, with excellent social and political institutions, who had developed agriculture to a very high degree. He was received with great courtesy by the Emperor, and having been invited to visit him in Cajamarca, PIZARRO entered the city on November 15, 1532, and made the unsuspecting Inca a prisoner in his own capital. By this bold stroke he at once obtained complete control over the natives, who, accustomed to being ruled in a paternal fashion, easily submitted to

the invaders. When PIZARRO had put ATAHUALPA, the Emperor of the Incas, to death, after a mock trial, on August 29, 1533, he enslaved the Indians, forcing them to work in the mines for the benefit of the conquerors, and they soon perished by thousands under the actions of their cruel masters.

PIZARRO was appointed governor of the newly acquired territory and founded the city of Lima, the present capital of the Republic of Peru, on January 16, 1535, naming it the City of the Kings. He governed the country until his death by assassination on June 26, 1541.

DON CRISTOBAL DE VACA was Governor until the year 1544, when the Viceroyalty of Peru was created. The first Viceroy, DON BLASCO NUÑEZ VELA, arrived at Lima on May 17, 1544, and was received with great honors and rejoicing. His jurisdiction at that time extended over the entire continent of South America, but the territory was subsequently divided into three viceroyalties, that of New Granada being created in 1718 and of the Rio de la Plata in 1776.

Forty viceroys succeeded BLASCO NUÑEZ in the government of Peru, under whose rule the enslavement of the Indians and the destruction of their ancient civilization was continued. Although the King of Spain issued laws for the better treatment of the aborigines, due to the unceasing efforts of Bishop LAS CASAS, their lot was not improved to any considerable extent.

The movement for independence began early in the nineteenth century in Peru, which was at that time the stronghold of Spanish power, but the various attempts were repressed with the greatest severity, the first martyrs to Peruvian independence being UBALDO and AGUILAR. Other patriots, however, took up the cause, and the struggle continued with varying success until in the year 1820 SAN MARTÍN, the great Argentine general, came to the aid of the Peruvians. He was ably assisted by the Admiral Lord COCHRANE, having command of the Chilean fleet, who captured and destroyed the Spanish ships and attacked the fort at Callao. On July 9, 1821, SAN MARTÍN made his triumphal entrance into Lima, and on July 28, 1821, the independence of Peru was formally declared. On September 20, 1822, a constituent congress met and on February 28, 1823, the first President of Peru, DON JOSÉ DE LA RIVA AGUERO, was inaugurated. LA SERNA, the last viceroy, continued, however, to resist the newly installed government, and it was due only to the combined efforts of General SAN MARTÍN and SIMON BOLIVAR that the country was finally freed of the enemy. General SUCRÉ, BOLIVAR'S able lieutenant, defeated and completely routed the Royalists at the battle of Ayacucho on December 9, 1824.

In 1879 Peru and Bolivia became involved in war with Chile, which lasted for five years and which was finally settled as between

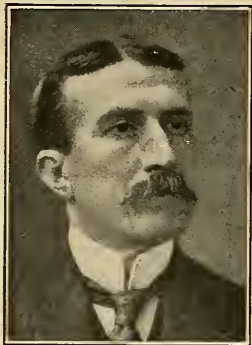
Peru and Chile by the treaty of March 8, 1884, whereby Peru ceded to Chile the Province of Tarapaca and the Territories of Tacna and Arica for a period of ten years, at the end of which term a plebiscite was to decide to which country the territories were to belong.

The Republic of Peru has since that time gradually and peacefully developed her numerous natural resources.

Dr. AGUSTO B. LEGUÍA, the present incumbent of the presidency, was inaugurated on September 24, 1908, for a term of four years.

#### CONSTITUTION AND GOVERNMENT.

The present constitution of the Republic of Peru was proclaimed on November 10, 1860. The usual division of the administration into the legislative, executive, and judicial branches is followed.



DR. AGUSTO B. LEGUÍA, PRESIDENT OF PERU.

The National Congress consists of two chambers, the Senate and the House of Representatives, the former composed of 51 members and the latter of 116. Both Senators and Deputies are elected by direct popular vote for a term of six years, deputies in the proportion of one for every 30,000 inhabitants or fraction exceeding 15,000. Both chambers are renewed by thirds every two years.

Every citizen, over 21 years of age, who can read and write is entitled to vote.

The President of the Republic and two Vice-Presidents are also elected by popular vote for a term of four years and may not be reelected for a second consecutive term.

A Cabinet of six Ministers, or Secretaries of State, assists the President.

The National Supreme Court, the Superior Courts, the Courts of First Instance, and the Municipal Courts compose the judiciary of the Republic. The Justices of the Supreme Court are elected by the Congress, and the other Justices appointed by the President of the Republic.

#### INTERIOR GOVERNMENT.

Peru is politically divided into 19 Departments, two *Provincias litorales*, and one *Provincia constitucional*, which are subdivided into districts. The executive authority of the Department is vested in a Prefect appointed by the President of the Republic, while the Subprefect governs the Province and the Governor the district. These authorities are assisted by the departmental, provincial, and municipal councils, which are elected by direct vote and represent the people.

The Departments, with their respective capitals, are:

Department of—	Capital.
Amazonas.....	Chachapoyas.
Ancachs.....	Hauras.
Apurimac.....	Abancay.
Arequipa.....	Arequipa.
Ayacucho.....	Ayacucho.
Cajamarca.....	Cajamarca.
Cuzco.....	Cuzco.
Huancavelica.....	Huancavelica.
Huanuco.....	Huanuco.
Ica.....	Ica.
Junin.....	Cerro de Pasco.
Lambayegue.....	Chiclayo.
La Libertad.....	Trujillo.
Lima.....	Lima. <sup>a</sup>
Loreto.....	Iquitos.
Piura.....	Piura.
Puno.....	Puno.
San Martin.....	Moyobamba.
Tacna <sup>b</sup> .....	Tacna.
Provincia constitutional of Callao.....	Callao.
Provincia litoral of Moquegua.....	Moquegua.
Provincia litoral of Tumbes.....	Tumbes.

President.....	Sr. D. AUGUSTO B. LEGUIA.
President of the Council and Minister of the Government and Police.....	Dr. RAFAEL VILLANUEVA.
Minister of Foreign Affairs.....	Dr. MELITÓN F. PORRAS.
Minister of the Treasury and Commerce.....	Dr. AUGUSTÍN LA TORRE GONZÁLEZ.
Minister of Justice and Public Instruction.....	Dr. MATÍAS LEON.
Minister of War and Marine.....	Dr. ERNESTO ZAPATA.
Minister of Public Works.....	Dr. DAVID MATTO.

NOTE.—List of cabinet officials corrected to July 20, 1909.

The President receives a salary of \$15,000 per annum and an allowance of \$9,000 for expenses.

## PERU IN 1908.

An event of importance in the history of Peru during 1908 was the installation of Señor Don AUGUSTO B. LEGUIA in the presidential office, in succession to President PARDO. At the opening of Congress the new Executive delivered a forcible address in which he lauded the work of the preceding administration and reiterated his expressed intention of following the wise and progressive policies previously inaugurated.

Foreign and national affairs are in a flourishing condition and though details of the year's commercial transactions are not avail-

<sup>a</sup> Also capital of the Republic.

<sup>b</sup> The Department of Tacna is, as stated above, occupied by Chile.

able, the reported foreign trade in 1907 showed an advance of more than \$2,000,000 over the preceding year. Mineral development, which forms the basis of the country's resources, is evidenced by the fact that production under this head was greater in value by more than \$5,000,000 in 1907 than in 1906, and that the number of claims allowed in the first six months of 1908 were double those of the preceding half-year.

The arrival and installation in the harbor of Callao of the dry dock constructed for Peru in Europe marks a feature in the development of transit enterprises, and this is supplemented by the granting of a subsidy for fast steamer service between that port and Panama, recently granted by the national congress. It is further reported that a contract has been entered into between the Government and a German enterprise for the survey of an all-rail route from Paita to a point on the Marañon River, on which construction work is to begin in 1910.

#### FOREIGN AFFAIRS.

During the year the relations of the Republic with other nations were cordial and friendly.

The new trade regulations for Bolivian goods received and shipped via Mollendo went into effect and preliminary steps for the settlement of the boundary question with Bolivia were taken. In July, 1909, the President of Argentina rendered his award. May 31, 1909, was the date fixed for the final settlement of the territorial controversy with Brazil, and in April of the same year a pact was entered into with Colombia looking to the final arrangement of the boundaries of the two Republics. With Ecuador, the boundary award is to be decided without appeal by the King of Spain. Conventions were signed with Chile covering the practice of liberal professions, consular regulations, and the exchange of publications, the two first named requiring further congressional action. A consular convention with the Netherlands, promulgated on July 18, 1908, looks to an extension of trade relations with that country and concedes mutual advantages to the contracting nations.

#### FINANCE.

The gold standard is operative throughout Peru, the Peruvian pound, which is the unit of value for commercial transactions, being equivalent to the English pound sterling.

The revenues for 1908 were £2,997,433 and expenditures were somewhat in excess of that amount, figuring for £3,043,032, and for 1909 government appropriations are made for £3,001,193.

Peru has recently arranged for a loan of £400,000, guaranteed by the internal revenue on alcohols, the proceeds to be devoted mainly to the canceling of the present debts.

The foreign debt of the country in 1889 amounted to £22,998,651.

By an agreement made with the bondholders the following year it was agreed to cancel the debt in exchange for state properties in railroads, guano deposits, etc. This agreement was not perfected, but a new agreement was entered into in April, 1907. In accordance with the terms of this agreement, the Government is to pay the sum of £80,000 annually in monthly installments during thirty years from July, 1907. The internal liabilities of the country consist of a debt of £2,660,645, bearing interest at 1 per cent, and a non-interest bearing debt of £471,355.

The bank balances on June 30, 1908, showed total assets of £6,920,179, as compared with £6,161,597 a year previous. During the twelve months 356 bars of gold bullion, valued at £222,285, were received at the Mint, and gold coins to the value of £214,004 issued. From November, 1906, to March 30, 1908, the Government purchased silver bullion valued at £114,157 and coined silver to the value of £104,050. Coined gold was imported during 1907 to the amount of £580,013 and stock companies represented a total investment of £2,081,284.

Import duties in the country are covered by a customs duty levied in accordance with tariff rates, supplemented by an addition of 8 per cent, applied to the current service; an addition of 2 per cent for the exclusive benefit of the municipalities of Callao and Lima, and a third addition of 1 per cent applied to the service of fiscal warehouses. The first three items are collected by the Callao customs service and the fourth by the National Salt Company, which has had charge of the government warehouses since January 1, 1908.

#### COMMERCE.

Foreign commerce continued satisfactory during the year, for the first six months of 1908 total trade values being reported of £5,264,540, as compared with £5,089,301 in the corresponding period of the preceding year, and with £11,262,518 for the whole of 1907. During the last-named period imports were valued at £5,514,787 and exports at £5,747,732. Based on the foregoing figures an estimate of the trade for 1908 gives a total valuation of £10,550,000, composed of imports £5,000,000 and exports £5,550,000.

During 1908 total commercial transactions with the United States aggregated \$11,690,716, against \$13,974,515 in 1907, imports from that country figuring for \$5,815,495, as compared with \$6,876,217 in the preceding year, and exports being valued at \$5,875,221 and \$7,098,298 in the two periods, respectively.

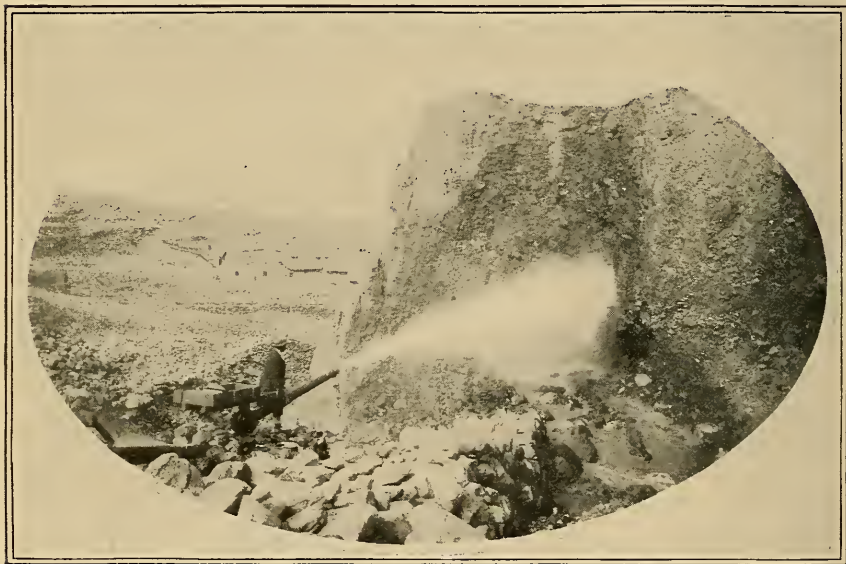
Great Britain remains the foremost factor in the trade of the Republic, followed by the United States, Germany, France, Belgium, and Chile, in the order named.

In 1907, the latest year for which figures are available, £4,949,961 represented the total trade value with Great Britain, composed of exports, £2,786,034, and imports, £2,163,927.

#### PRODUCTION AND INDUSTRIES.

The great sources of national wealth are agriculture and mining, with mining in the first place.

For 1907 the total mineral output of the country was valued at £3,499,057, a gain as compared with the preceding year of £888,483. Copper occupies first place, with a production worth £1,709,275, fol-



GOLD MINING AT POTO, PERU, 16,000 FEET ABOVE SEA LEVEL.

Enormous deposits of auriferous gravel are washed by hydraulic methods. Peru's mineral output for 1907 amounted to \$18,000,000.

lowed by silver, £1,229,951; crude petroleum, £250,440; coal, £106,000; gold, £93,229; lead, £34,669; and other minerals in diminishing proportions.

The Department of Junin, in which is located the celebrated Cerro de Pasco mining district, stands at the head of producing sections, the silver output for 1907 being 108,026 kilograms, 17,151 tons of copper, 169,368 tons of coal, and 4,970 tons of lead.

Increased numbers of petitions for denouncements of mining claims mark the development of the industry throughout the Republic, the adjudicated claims in the first half of 1908 exceeding those of the preceding half year by 3,334, while mineral exports to the United States alone in 1907 were valued at \$5,203,613, against \$665,438



in the preceding year. The superficial area conceded for mining purposes, as stated in the "*Codigo de Minería*" for 1906-7, was about 275 square miles, though this amount is much greater at present.

The developments in copper mining are particularly numerous and important. The company operating at Cerro de Pasco produces approximately 40 tons of copper daily, or an annual output of 15,000 tons, the national output for 1907 being 20,681 tons, and it is estimated that within a short time the yearly shipments will amount to 50,000 tons, thus bringing the country to third place as a producer. The famous ore bodies of Cerro de Pasco are situated at the junction of the East and West Cordilleras and contain copper, silver, lead, gold, and several other minerals, among which is vanadium, recently discovered.

Silver is found throughout the Peruvian Andean region, commonly associated with lead or copper and frequently with both. The 1907 production was somewhat less than that of the preceding year and aggregated 6,687,304 troy ounces.

"Cascajo," without metallic brilliancy and of reddish color, is a silver-bearing mineral peculiar to Peru, and, with copper, forms the great deposit of the Cerro de Pasco district.

Gold production showed a decline for 1907, the 28 districts in 12 Departments yielding 25,013 troy ounces, or 12,089 ounces less than in 1906. Puno produces 70 per cent of the total gold of the Republic, its deposits being very rich, though inadequately exploited.

Petroleum production for 1907 was 100,184 metric tons, an increase over the previous year of 29,352 tons, the total number of wells in exploitation being 569. Of these, 275 were located in Zorritos, 40 in Lobitos, 250 in Negritos, and 4 in Pirin. Petroleum is found in the neighborhood of Chimbote, in the Province of Ica; in the Department of Puno, in southern Peru, near Lake Titicaca, and other localities. It has long been known that there were immense deposits in some of the coast districts, but there has until recently been no systematic exploitation of them.

The yield of coal during 1907 was 185,565 metric tons, a gain over 1906 of 105,596 tons, the greater portion being obtained from the Cerro de Pasco Company's mines and used in their copper-smelting works. Anthracite is found in the Chimbote and Huaraz districts, in Otuzco, Huamachuco, and elsewhere, and bituminous coal is to be found in Cajamarca, Ancachs, Ica, Arequipa, Puno, and Moquega.

A sulphur company in the Department of Piura is the only producer of this mineral, the plant having a capacity of 150 tons daily, and besides the 80 tons of refined sulphur produced in 1907, there were 4,500 tons of mineral in stock at the close of the year containing 1,800 tons of sulphur.

The discovery of vanadium was made in 1904, and from June, 1906, to January, 1909, there were produced and shipped to the United States 1,800 tons of oxidized ores, containing 20 per cent vanadic oxide.

Exploitation of the guano deposits of the Republic constitutes an important branch of industry, and within the last eighteen years the Peruvian Corporation has extracted a third of the 3,000,000 tons allowed under its contract. The exports of this product in 1907 were about 80,000 tons, 26,000 tons forming the amount used locally. The Government is very desirous of applying this fertilizer to the agricultural development of the country, and has authorized a company capitalized at £30,000 to operate in the Republic for the supply of guano to the farmers just as it is taken from the deposits.

During 1909 the Peruvian Corporation will only extract guano from the islands north of Callao, the deposits to the south being reserved for the uses of national agriculture.



A BUILDING ON THE CHIQUITA SUGAR PLANTATION, CHICAMA VALLEY, PERU.

The Chicama Valley is one of the most fertile regions in Peru, and is especially adapted to the cultivation of sugar cane. The annual production of sugar in the Republic in 1907 was valued at \$5,720,000.

On the south coast in the neighboring islands are immense nitrate deposits, and in the Bay of Sechura pearl fisheries are being exploited profitably under government concession.

Metallurgical plants in operation number 89, of which 19 are for amalgamation, 32 for lixiviation, 23 smelters, and 12 combination. There are also 2 petroleum refineries and 1 for sulphur.

At the beginning of 1908 there were 177 mining camps in actual production, the total number of employees being 16,936. All materials and machinery for the exploitation of mining properties are free of import duty, and liberal grants are made to interested purchasers.

Peru's leading crops—sugar, cotton, and rice—are irrigation crops.

Sugar-growing is carried on chiefly on the coast regions, the total area devoted to the industry being about 200,000 acres. The crop

of 1907 was valued at £1,124,723, and for 1907-8 exports were made of 104,000 tons, which, added to the local consumption of 31,000 tons, brought the total output for the season up to 135,000 tons, somewhat less than the annual average of 150,000 tons. There are about 50 plantations, the product being largely exported to England and Chile for refining. The plantations in the vicinity of Lima furnish about 20,000 tons of white sugar annually, and 10,000 tons of chancaca, a product obtained by boiling down the juice to a thick sirup and allowing it to solidify by cooling.

The cotton crop in 1907 of 15,000 tons, valued at £584,441, showed an advance over the preceding year, and for 1908 the outlook was reported as most favorable. The best grades are grown near Piura and shipped from Paita, the high quality being attributable to the peculiarities of soil and climate for which this narrow belt of coast land is noted. Five good crops may be obtained from one planting, the third year representing the maximum yield. Irrigation is being applied to increasing the cultivable areas in the Departments of Piura and of Lima, a canal 22 miles long forming the base of distribution in the former locality.

Cotton manufacturing is carried on in five well-equipped factories in Lima; one being also operated in Arequipa and another at Ica. The annual consumption of raw material is about 3,000 tons, the native product being classed as superior to the imported article. The Government encourages the industry by the distribution of seeds to cotton planters and by legislation favorable to the factories.

The wool product in 1907 represented a valuation of £456,669, the export quantity being over 4,000 tons. Alpacas, sheep, and llamas are the wool-bearing animals of the country. The introduction of Patagonian sheep for crossbreeding is one of the recent developments of the pastoral industry, and a British enterprise conducts a sheep ranch extending over 130 square miles. Hides of various kinds are estimated at an annual valuation of about £150,000.

Five woollen factories are operated, giving employment to a large number of workmen, and preparing about 600,000 kilograms of wool for the market annually. The total output, however, fails to meet local demands, and there is a large import trade under this head.

Rubber, whose production in 1907 was stated as worth £954,582, is collected in large quantities in the forest regions and shipped down the Amazon.

Pending the enactment of a law for the protection of the rubber industry, legislative measures are in effect whereby all decrees and resolutions of a general character concerning the exploitation of leased lands in the Montaña containing timber and rubber trees are abrogated.

The coca output is valued at £125,757, the most important growing section being the Province of Otuzco in the Department of La Libertad. For the manufacture of cocaine, there are 24 small factories, the 1907 product being 5,914 kilograms, worth £66,630.

Coffee is grown in central Peru, the chief producing districts being Chancaamayo, Perene, and Paucartambo, also in the Huanua district. Production in 1907 was valued at £42,106.

Cacao culture is increasing, about 200,000 trees having been planted in the Perene region.

Rice, tobacco, wheat, ramie, and maize are also grown, and silk culture and viticulture are engaging the attention of industrial enter-



LOADED LLAMAS IN THE HIGHLANDS OF PERU.

The llama belongs to the family of the *Camelidae*, and was the only beast of burden in the Western Hemisphere before the coming of the Spaniards. It is still extensively used in the Andes.

prises. Thousands of square miles of lands are available for colonization on the eastern slopes of the Andes, affording fertile areas for the cultivation of foodstuffs and textile plants, and extensive ranges for wool-bearing animals.

The Government is desirous of promoting the immigration of agriculturists and artisans.

#### COMMUNICATION FACILITIES.

Railways in operation in the Republic have an extent of 1,471 miles, of which 844 miles were managed by the Peruvian Corporation.

The Central Railway is the most important line, running from Callao to Oroya over 140 miles of track, with branch lines to the Cerro de Pasco district and to Huancayo on the route to Ayacucho. The building of the Huancayo-Ayacucho connection is included in the ultimate purpose to extend the line to Cuzco.

Second in importance is the Southern Railway extending from Mollendo to Puno on Lake Titicaca, a distance of over 300 miles, from which point it connects with a line of steamers running to the Bolivian lake port of Guaqui. From Juliaca, near the shore of Lake Titicaca, a branch extending 125 miles to Sicuani has been open for some years, and the route is in process of extension to Cuzco. The rails reached that point on September 13, 1908, so that the linking of the Central and Southern lines only requires 300 miles of construction between Cuzco and Huancayo.

A road from Lima to Huacho is projected with an extent of 157 miles, at an estimated cost of £722,185, including rolling stock.

Other roads in operation comprise spurs running from minor ports up the various river valleys for comparatively short distances and are available for the transport of agricultural products to the coast.

Rolling stock is supplied almost entirely from the United States, the heaviest buyer being the Peruvian Corporation, which, through an arrangement with the Government is extending several of the lines.

The contract has been let for the construction of the Ilo to Moquega railway at a cost of £23,286 and surveys have been made over the route from Cerro de Pasco to the Ucayali and from Lima to Pisco.

The construction of a railway in the eastern part of Peru connecting with river transport on the Marañón is under consideration, the beneficial effects of this outlet for Peruvian resources being thoroughly appreciated by the Government.

Numerous highways are under construction, one of the most important extending between Paucartambo and the Madre de Dios River, a distance of 125 miles, the cost of which is estimated at £34,000.

#### STEAMSHIPS AND WATERWAYS.

The coast of Peru has a number of indentations with good bays offering shelter and anchorage for ocean-going vessels. The ports on the Pacific Ocean at which steamers call regularly are Tumbes, Paita, Eten, Pacasmayo, Salaverry, Chimbote, Huacho, Puerto Ancón, Callao, Pisco, Mollendo, and Ilo. The most important of these is Callao, 10 miles from Lima, the capital of the Republic.

The ports of Peru can be reached either from New York direct via the straits of Magellan, via Panama, or via San Francisco and the West Coast. The New York and Pacific Steamship Company

and the West Coast Line maintain a regular service between New York and Peruvian ports, with limited accommodation for passengers, taking about sixty days to make the run, with irregular sailings from New York. The Panama Railroad Company's steamers leave New York every five days for Colon, whence the trip is made by rail across the Isthmus to Panama, and from Panama by one of the steamers of the Pacific Steam Navigation Company or the *Compañía Sud-Americana de Vapores*, or the steamers of the recently inaugurated *Compañía Peruana de Vapores*, all of which make the run between Callao and Panama in six to seven days; first-class passage, \$136.

From San Francisco direct the steamers of the Kosmos Line, which leave San Francisco regularly every ten days and touch at all the ports on the Pacific coast, can be taken.

There are several companies having large and modernly equipped steamers which ply regularly between Callao and European ports.

Aside from its long coast line and numerous bays and ports on the Pacific, Peru has been favored by nature with an extensive fluvial system, affording a convenient outlet for her products on the Atlantic side. It is estimated that there are from 3,000 to 4,000 miles of rivers in Peru navigable for vessels of from 8 to 20 feet draft. The port of Iquitos, on the Upper Amazon, the principal inland port, can be reached in twenty-six days from New York by the steamers of the Booth Line, sailing from New York for Iquitos every forty days. The fare is \$140. Other inland ports of some importance are Yurimaguas, on the Huallaga River, Contamana, on the Ucayali River, and Puerto Bermudez. On Lake Titicaca, Puno is the important port on the Peruvian side.

The majority of Peru's navigable rivers are on the east side of the Andes, the rivers flowing into the Pacific Ocean being of but little use as fluvial arteries; the Tumbes and the Chira are the only two that are navigable even for short distances.

The Upper Amazon, or, as it is called in Peru, the Marañon, with its numerous tributaries, of which the principal ones are the Ucayali and the Huallaga, form the extensive river system of eastern Peru, the Amazon River being navigable in its entire length in Brazil and in Peru. A number of steamship companies maintain a regular service on the various affluents of the Amazon as far as the port of Mayro, but 325 miles distant from Lima.

Peru is favored by nature with a number of large and beautiful lakes, among which the largest is Lake Titicaca, on the boundary line between Peru and Bolivia, and the highest lake in the world navigated by steamers. In Peru proper are, among others, Lake Chinchay-Cono, 37 miles in length by 7 miles wide, situated at an altitude of 13,800 feet, and Lake Lauricocha, at 14,270 feet above the level of the sea, said to be the source of the Amazon River.

Telegraph lines have an extent of 3,360 miles under state ownership and 1,180 corporation-owned. Submarine cables maintain communication with the adjoining Republics and a telephone system 3,000 miles in extent connects the various sections of the country. Wireless stations are operated at Puerto Bermudez, Massisea, Iquitos, Requena, and Orellana, and an appropriation of £7,000 has been made for the establishment of wireless connections through the Montaña or forest region on the eastern slopes of the Andes.

Receipts from posts and telegraphs in 1907 were £72,829 and £18,788, respectively, the amounts in both instances being considerably in excess of the budget estimates.

Public instruction in the country is represented by 2,410 schools and 3,160 teachers. The number of educational institutions is continually being increased through government aid. In the budget for 1908 the appropriation for public instruction amounted to £61,244, as compared with £44,222 in the preceding year, and the appropriation for school furniture, books, and apparatus was £23,000. The Central Manual Training and Physical Culture School, established in Lima in June, 1907, has a roster of 120 pupils.

An executive decree of January 2, 1909, provides for the annual appointment of four students in the learned professions to continue their studies abroad at the expense of the Government, it being provided that at the expiration of two years they should serve in government service.

Experts have been employed to make extensive investigation on the irrigation possibilities of the Republic. It is determined that the coast region contains approximately 2,500,000 acres available for cultivation under improved conditions.

A census of the province and city of Lima taken on June 26, 1908, showed a population of 172,927, the city being credited with 140,884 inhabitants.

Sanitary regulations are in effect in the principal ports and cities of the Republic and modern improvements are being introduced in municipal organization. The trolley system of transport is employed in the capital and is being extended to other centers of population.

# SALVADOR

The Republic of El Salvador, sometimes erroneously called San Salvador, the name of its capital, is the smallest of the 21 American Republics. It is the only one of the Central American States lying wholly on the Pacific Ocean and is bordered on the land side by Guatemala, Honduras, and Nicaragua. Salvador has an area of 7,225 square miles, somewhat less than the State of New Jersey, and enjoys the distinction of being the most densely populated country on the American Continent, with 1,707,000 inhabitants, or 236 per square mile, which is more than ten times the population per square mile of the United States of America (23.2), and nearly equal to that of Italy.

Two mountain chains cross the country almost in its entire length, sending out numerous spurs and attaining considerable altitudes. Inclosed by these ranges are numerous valleys, among which that of the River Lempa is the most important. Coffee, cacao, tobacco, indigo, india rubber, and the so-called "Peruvian balsam," the product of the *Myroxylon pereiræ*, are the most important products. Gold and silver are at present the only mineral products exported.

## HISTORICAL SKETCH.

When Cortez had completed the conquest of Mexico, he dispatched his lieutenants in all directions to explore the country to the south and bring it under the Spanish domain. To PEDRO ALVARADO fell the task of exploring what is now the Republic of Salvador, and in the year 1524 he invaded the country, defeated the natives, and early in the year 1525 captured their capital, Cuscatlan. Salvador then became a part of the captain-generalcy of Guatemala and later of the vice-royalty of Mexico. It was governed by the Spanish authorities residing in Guatemala City.

Although Salvador suffered less from Spanish rule than some of the other countries, being farther removed from the central seat of authority, it nevertheless gladly adhered to the movement for independence, which had been initiated in Guatemala on September 15, 1821, and joined the Central American Federation. When the federation was incorporated into the Mexican Empire, in the year following, Salvador protested vehemently against this annexation, and



a resolution was adopted by which the people declared themselves in favor of annexation to the United States rather than to Mexico. On the fall of ITURBIDE's short-lived empire in 1822, Salvador became once more a State of the Central American Federation.

A constituent congress adopted a constitution on November 22, 1824. In 1839 the Central American Federation was dissolved, but it was not until the year 1841 that Salvador formally withdrew, and on February 18 of that year declared its independence and separation from the federation. The various efforts to reestablish the union which have been made from time to time have not been successful.

Gen. FERNANDO FIGUEROA was inaugurated as President of the Republic on March 1, 1907, for four years.

#### CONSTITUTION AND GOVERNMENT.

The constitution of Salvador now in force was promulgated on August 13, 1886.

The legislative power is vested in the National Assembly, composed of one chamber, called the National Assembly of Deputies. It has 42 members, 3 deputies being elected for each Department by direct popular vote for a term of one year. Every citizen over 18 years of age is not only entitled but obliged to vote.

The President and Vice-President of the Republic are elected by popular vote for a term of four years. A Cabinet of four Ministers or Secretaries assists the President in the administration of the affairs of the country. Its members are appointed by the President, but are also responsible to the National Assembly.

The judiciary of the country is composed of a National Supreme Court, several courts of first and second instance, and a number of minor courts. The justices of the Supreme Court are elected by the National Assembly for a term of two years and the judges of the first and second instance are appointed by the Supreme Court for a term of two years. The justices of the minor courts are elected by popular vote.

#### INTERIOR GOVERNMENT.

The Republic is divided politically into 14 Departments, subdivided into districts, and these into towns and municipalities. The governors of the Departments are appointed by the President for a term of four years, as are also the executive chiefs of the districts. The mayors and municipal councils of the cities are elected by direct vote.

The Departments of El Salvador and their respective capitals are:

	Capital.
San Salvador.....	San Salvador (also the capital of the Republic).
La Libertad.....	Santa Tecla.
Sonsonate.....	Sonsonate.
Ahuachapan.....	Ahuachapan.
Santa Ana.....	Santa Ana.
Chalatenango.....	Chalatenango.
Cuscatlan.....	Cojutepeque.
Cabañas.....	Sensuntepeque.
San Vicente.....	San Vicente.
La Paz.....	Zacatecoluca.
Usulután.....	Usulután.
San Miguel.....	San Miguel.
Morazan.....	San Francisco.
La Unión.....	La Unión.

President.....	Gen. FERNANDO FIGUEROA.
Minister of Foreign Affairs and Justice.....	Dr. SALVADOR RODRIGUEZ G.
Minister of the Treasury and Public Credit.....	Señor D. MANUEL LOPEZ MENCIA, <i>pro tem.</i>
Minister of Public Instruction, Public Works, and Government.....	Dr. NICOLAS ANGULO.
Minister of War and Marine.....	Dr. EUSEBIO BRACAMONTE, <i>Assistant Secretary.</i>

NOTE.—List of cabinet officials corrected to July 20, 1909.

The salary of the President is \$9,600 per annum.

## SALVADOR IN 1908.

Gen. FERNANDO FIGUEROA, President of the Republic of Salvador, in his message to the Congress, delivered on February 20, 1909, spoke of the period of evolution through which the Republic was passing, stating that the Government had done its best to enable the country to enlarge its agricultural resources, increase the volume of its commerce, develop its arts and sciences, improve the customs and culture of its people, strengthen the good name of the nation abroad, and insure international and domestic justice in the affairs of the Republic. The results have been most gratifying.



GENERAL FERNANDO FIGUEROA,  
PRESIDENT OF SALVADOR

The published returns of the trade for the year 1908 recorded an increase in total valuations amounting to \$500,000 as compared with the preceding year, the balance in favor of the Republic being over \$1,000,000. With the improvement of communication facilities with the United States a still further increase in the volume of commerce between the two countries is looked for.

## FOREIGN AFFAIRS.

The relations of Salvador with the countries of Europe and America continue to be friendly and amicable, those with the United States being still further strengthened during the year by a Convention of Arbitration approved by the National Assembly of the Republic on May 1, 1909. Salvador participated in the Fifth Pan-American Medical Congress, which met in the neighboring Republic of Guatemala, early in 1908, in the inauguration of the Central American International Bureau in the city of Guatemala, on September 15, 1908, and in the opening of the Central American Court of Justice at Cartago, Costa Rica. Delegates were also sent to the First Central American Conference which met at the capital of Honduras on January 1, 1909. The next meeting of this body is fixed for January 1, 1910, at San Salvador.

On July 13, 1908, the Republic ratified all of the conventions of the Third Pan-American Conference, and on July 20 of the same year signed a naturalization treaty with the United States.

Foreign trade relations were strengthened by a commercial treaty with Germany concluded in April, 1908, the contracting parties agreeing to a most-favored-nation clause with reference to commercial, maritime, and consular matters.

The adherence of the Republic to the Universal Postal Union of Rome, May 26, 1906, was announced by decree dated May 22, 1908.

## FINANCE.

The financial condition of the country is very satisfactory, the credit of the nation at home and abroad having been strengthened by a judicious disbursement of the public funds. The debt of the Republic at the close of 1908 was reported as \$11,283,185, while the revenues for the year amounted to \$4,003,626, showing an increase over the year 1907 of \$752,861. As a result of the conservative administration of 1908 the Republic was enabled to enter upon the year 1909 with a credit balance of \$208,981. The budget law for the year 1908-9 estimates receipts at \$6,799,200 and disbursements at \$6,865,711. Estimated receipts are classified as follows: Imports, \$930,000; exports, \$717,862. Internal taxes: Liquors, \$937,500; stamps, \$86,250; miscellaneous, \$246,750; and proceeds of the £1,000,000 loan at 75 per cent are placed at \$3,375,000.

A decree of April 7, 1908, imposed a tax of one-half of 1 per cent on all sales of real estate in the Republic, the proceeds to be devoted to the construction of public works in accordance with the judgment of the departmental governors and the Executive.

## COMMERCE.

In its foreign commerce for the year 1908 Salvador enjoyed a period of prosperity, the total trade values reported amounting to \$10,028,237.48, of which imports figured for \$4,240,580.21 and exports for \$5,787,677.34, an increase in trade of over \$500,000 as compared with 1907, when imports amounted to \$3,440,721.23 and exports to \$6,065,383.88.

The leading countries of origin for imports, in the order of their importance, were Great Britain, United States, Germany, France, Italy, Belgium, and Honduras; the principal articles being cotton manufactured goods, hardware, flour, drugs and medicines, boots and shoes, silk fabrics, and woolen goods.

The countries of destination of the exports from the Republic during the year were: United States, \$1,984,000; Germany, \$993,221; France, \$971,813; Great Britain, \$429,003; Italy, \$243,762; and Austria, \$211,917. Of the coffee exported from the country, France takes something over 37 per cent; the United States, 18 per cent; Germany, 15 per cent; followed by Italy, Great Britain, Austria, and Spain in diminishing ratios.

Exports in the order of their importance were: Coffee, 55,215,110 pounds, \$3,899,430; minerals, 66,068 pounds, \$1,235,831; sugar, 7,042,178 pounds, \$251,076.75; indigo, 421,350 pounds, \$197,036.11; balsam, 143,678 pounds, \$77,473.86; other items shipped were hides, tobacco, rubber, and rice, aggregating 3,927,708 pounds, worth \$338,200. Shipments to the United States for the year amounted to \$1,984,000, showing a slight decrease as compared with 1907, when they amounted to \$2,018,459. For the same period the United States reports shipments to Salvador amounting to \$1,404,573, as compared with \$1,592,473 in 1907.

The shipments to the United States were made up in part as follows: Gold bullion, \$822,181; coffee, \$719,455; gold and silver, \$387,902; sugar, \$26,680; rubber, \$10,595; indigo and hides about \$10,000; and other articles in lesser valuations. Substantial gains were noted in shipments of gold and silver bullion, rubber, sugar, and indigo; balsam, copper, and miscellaneous items remaining stationary; while in hides and lead there was a considerable decline. As the development of the mining resources of the country increases, larger shipments of gold and silver bullion will undoubtedly be made to the United States. The coffee of the country has always found its best market in Europe.

## PRODUCTION AND INDUSTRIES.

The interests of the country are essentially agricultural, the principal crop being coffee, of which the annual output amounts to 37,500

tons, valued at approximately \$5,000,000. A number of articles are cultivated more or less extensively, among them cacao, rubber, balsam, sugar, indigo, tobacco, and bananas. Formerly cotton ranked as a crop of importance among the agricultural products of the Republic, about \$700,000 of this staple being exported, but shipments have gradually declined, the crop yielding in importance first to indigo and later to coffee. The forests of the Republic contain cabinet and hard woods of different grades and qualities, mahogany, cedar, mulberry, ironwood, walnut, and laurel; also dyewoods, barks, balsams, gums, and resins. Among the textile fibers produced are henequen, ramie, escobilla, cocoanut, and capulin.

Mining is a profitable branch of enterprise conducted to some extent in different sections. Numerous valuable deposits of copper, iron, lead, gold, and silver are being exploited, while other minerals have been located in different parts of the country. The richest mineral section of the Republic is the Department of Santa Ana, where numerous veins of iron, copper, lead, gold, and silver ores are known to exist, particularly lead and copper. Smelters in the district are few and the methods employed for treating the ore antiquated.

Of the gold-mining properties the San Sebastian, owned by an English company and situated in La Union, is reputed to be the richest. The Tabanco mine, the property of a French syndicate, the San Bartolo, Eva, and Copetillo, the latter properties being owned by American interests, also produce a high grade of ore. The San Miguel district contains several mines producing ore of high grade.

The manufacturing industries, though of less importance, have attained a degree of progress in the following articles: Fiber ropes and hammocks, cigars and cigarettes made of native tobacco, palm-leaf mats and hats, saddlery, confectionery, and dairy products. The manufacture of textiles is successfully conducted, the value of the cotton and silk tissues made in the country amounting to about \$80,000 per year. The cotton thread employed in the elaboration of the product comes principally from England. Forge iron, furniture, boots and shoes, and tanned leather are also manufactured to some extent.

Cattle and horses are bred with profit, especially near the seacoast.

#### COMMUNICATION.

Progress in railway construction during the year in the Republic was satisfactory, new lines being undertaken and negotiations entered into with a view to still further increasing the existing mileage of the country. The present railway system in operation is about 100 miles in extent and includes a line from the capital to the port of Acajutla with branch connection to the city of Santa Ana, while

another line runs from the capital to Santa Tecla. Work on the road between Santa Ana and the Guatemalan frontier has been contracted for and negotiations are in progress looking to the construction of a line from the capital to San Miguel and La Union. The importance of this contract lies in the fact that it covers the section of the Pan-American line belonging to Salvador, as defined in the convention signed in Washington on December 20, 1907, on the occasion of the Central American Peace Conference. The road leaving the port of La Union will connect with the cities of Usulután, San Vicente, and Cojutepec, and, uniting with the line already built between the capital and Santa Ana, proceed to the Guatemalan frontier to make connection with the Atlantic railway of that country recently inaugurated. Government aid is guaranteed in the building of the line and free entry for material needed in construction granted.

Other contemplated extensions include a line from Santa Ana to Ahuachapán via Chalchuapa and Atiquizaya, and a union of the Central Railway of Salvador with the Northern Guatemala. The former carries a subsidy of \$10,000 per annum for the life of the grant, which is thirty-five years, and the latter offers an advantageous connection, in that it would greatly stimulate the mining industry in the entire western section of the Republic.

The Republic of Salvador is accessible by water only from the Pacific Ocean, its ports being La Union, Espiritu Santo, La Concordia, La Libertad, and Acajutla, of which La Union is the most important and the commercial center of the Republic. La Libertad and Acajutla are the remaining two ports at which ocean-going vessels call, the other ports being used for the coastwise trade only.

The Pacific Mail Steamship Company and the Kosmos Line call regularly at the three ports mentioned, employing from nineteen to twenty-one days in the trip from San Francisco, from which port they sail regularly every ten days, first-class passage being \$100 to any one of these ports. The capital of the Republic, San Salvador, can best be reached by rail from the port of Acajutla.

Among the numerous rivers of Salvador the most important are the Lempa, the Paza, and the San Miguel, the first mentioned flowing through the entire territory of the Republic, but all navigable only for small craft.

A number of picturesque lakes are in the country, Lake Guijar, the largest, being 15 miles long and 5 miles wide. Lake Ilopango is 9 miles long and 3 miles wide. All are navigable for small vessels of light draft.

Along the coast are a number of islands which belong to the Republic, viz, Punta Zacate, Conchagueta, Meanguera, Martín Pérez, Perico Chuchito, Conejo, Irca, and Meanguerita, most of these being located

in the Gulf of Fonseca. The largest of these is Punta Zacate, 30 miles in length.

A new tramway line has been opened to traffic in the capital of the Republic.

Internal improvements have also occupied the attention of the Government. To the 2,000 miles of highroads already in existence new



THE IZALCO VOLCANO NEAR SAN SALVADOR, SALVADOR.

This volcano is almost continuously active. In 1798 it rose out of the plain and gradually attained an elevation of about 6,000 feet. Is sometimes called the "Safety valve of Salvador," also the "Light-house of Salvador."

roads have been added and repairs made, bridges built and repaired and new construction projected; public buildings have been inspected and repaired; the schools of the country reorganized; modern methods of instruction introduced, and modern sanitary laws promulgated throughout the Republic.

The postal service of the Republic is satisfactorily administered, the post-offices being graded according to the population of the different cities. Offices of the first class other than the capital are Santa Ana, San Miguel, Sonsonate, Santa Tecla, Cojutepeque, and San Vicente. The latest figures available showed that at the beginning of 1907 there were 82 post-offices in the Republic and 200 telegraph offices, operating 2,400 miles of wire, over which 1,039,778 telegrams were sent. The telephone system represented 100 stations and 1,924 miles of line.





# URUGUAY

The Oriental Republic of Uruguay lies between the Atlantic Ocean, the Rio de la Plata (River Plate), Brazil, and the Argentine Republic. It is separated from Brazil by the rivers Cuareim and Yaguaron and Lake Merim and from the Argentine Republic by the Rio de la Plata and the Uruguay River.

Uruguay has an area of 72,210 square miles, and, although the smallest independent State in South America, it is yet larger than New York and West Virginia combined. It has a population of 1,111,758, or 15.4 per square mile, which is one-third less than the population per square mile of the United States of America.

The most notable feature of Uruguay is its extent of long, rolling plains, comprising almost the entire length of the country, occasionally broken by low mountain ranges and copiously watered by numerous streams.

By reason of its peculiar topography the Republic is naturally suited for stock raising, which is its principal industry. Numerous meat-packing houses are located throughout its territory, the best known of which is, perhaps, the Liebig's Extract of Meat Company. Agriculture is practiced to a considerable extent, nearly all of the cereals being raised, although mostly for home consumption, only a small quantity being until recently available for export. In the forests are found a number of excellent cabinet and other woods, noted for their beauty and durability, while the mountains contain silver, copper, and gold.

## HISTORICAL SKETCH.

To JUAN DIAZ DE SOLIS is usually given the credit of having discovered the Rio de la Plata in the year 1515, and it was he who first landed on Uruguayan soil and took possession of the country in the name of the King of Spain. This act cost him his life, the savage Chauras, who at that time inhabited the country, attacking and killing him and all his party.

The country was explored by several other Spaniards and Portuguese, none of whom, however, succeeded in conquering the aborigines, and it was not until the Jesuits arrived in the year 1624 that permanent settlements were established. The territory was then placed under the jurisdiction of the Governor of Paraguay and later under the Viceroy of the Rio de la Plata.

Portugal, however, laid claim to the territory of Uruguay, basing her claims on the terms of the treaty of Tordesilla of June 7, 1494.

The country was for nearly two centuries a matter of contention between the two powers, Colonia and later Montevideo being successively occupied and evacuated by the troops of both Spain and Portugal. The territory was ceded to Spain October 1, 1777, by the treaty of San Ildefonso.

In the year 1806, Great Britain being at war with Spain, a fleet was dispatched to the Rio de la Plata, under Sir HOME POHAM, who attacked Montevideo but was repulsed. A second attempt, made in the year following with a stronger force, was more successful, and on January 23, 1807, the British captured the fort of Montevideo after a siege of eight days. They were obliged, however, to evacuate their position a few months later when General WHITELOCKE was defeated at Buenos Aires.

The movement for independence in Uruguay may be said to have begun with the declaration of independence at Buenos Aires on May 23, 1810. Uruguay was declared a part of the United Provinces of Rio de la Plata, and on May 18, 1811, the Spanish troops were defeated and utterly routed by the Uruguayan, Gen. JOSÉ ARTIGAS.



DR. CLAUDIO WILLIMAN, PRESIDENT OF URUGUAY.

Brazil, however, now claimed the territory of Uruguay, and, sending a strong force to occupy the country, took possession of it, and on May 9, 1824, the Emperor of Brazil declared the territory to be incorporated into Brazil as the Cisplatine State. The patriots, ably assisted by the Argentine Republic, defeated the Brazilian troops on October 12,

1825. This led to a war between Brazil and the Argentine Republic, which was ended by the treaty of August 27, 1828, whereby both countries recognized the independence of Uruguay. A Constitutional Congress met in November of the same year and appointed General RONDEAU provisional Governor. The constitution having been promulgated on July 18, 1830, Gen. JOSÉ RIVERA was elected the first President of the Republic and inaugurated on November 6 of the same year.

Dr. CLAUDIO WILLIMAN, the present Chief Executive, was inaugurated March 1, 1907, for a term of four years.

#### CONSTITUTION AND GOVERNMENT.

The constitution of Uruguay was promulgated on July 18, 1830, and, with some slight amendments, is still in force.

The Senate and House of Representatives compose the General Assembly, in which all legislative power is vested. Representatives

are elected directly by popular vote in the proportion of 1 for every 3,000 inhabitants or fraction exceeding 2,000, and for a term of three years. Senators are elected indirectly for a term of six years, one for each Department. The Senate is renewed by thirds every two years.

Every citizen over 20 years of age, who is physically and mentally able to do so, is entitled to vote.

A permanent committee, composed of two Senators and five Representatives, represents the Congress during recess, whose duty it is to assist and advise the President on all matters legislative, and to act for the General Assembly.

The President is chosen by the General Assembly for a term of four years and may not be reelected for the term immediately following his own. In case of the President's disability or death, the presiding officer of the Senate assumes the Presidency.

A cabinet having charge of six Executive Departments is appointed by the President and is directly responsible to him and to the Legislature. The latter body may demand the resignation of the cabinet.

The judiciary is composed of a High Court of Justice, courts of appeal, courts of First Instance, and justice of peace courts. The justices of the High Court of Justice are elected by the National Assembly, while the judges of the other courts are appointed by the High Court of Justice.

#### INTERIOR GOVERNMENT.

The Republic is divided politically into 19 Departments, which are subdivided into sections and districts. The chief executive of the Department is the *jefe politico*, appointed by the President of the Republic. He is assisted by an administrative council, the members of which are elected by direct vote.

The Departments of Uruguay and their respective capitals are:

Department of—	Capital.
Artigas.....	San Eugenio.
Canelones.....	Villa Guadalupe.
Cerro-Largo.....	Melo.
Durazno.....	Durazno.
Flores.....	Trinidad or Porongos.
Florida.....	Florida.
La Colonia.....	Colonia del Sacramento.
Maldonado.....	Maldonado.
Minas.....	Minas.
Montevideo.....	Montevideo; also capital of the Republic.
Paysandu.....	Paysandu.
Río Negro.....	Fray Bentos or Independencia.
Rivera.....	Rivera.
Rocha.....	Rocha.

Department of—	Capital.
Salto.....	Salto.
San Jose.....	San Jose.
Soriano.....	Mercedes.
Tacuarembó.....	Tacuarembó or San Fructuoso.
Treinta y Tres.....	Treinta y Tres.
President.....	Dr. CLAUDIO WILLIMAN.
Minister of the Interior.....	Dr. JOSÉ ESPALTER.
Minister of Foreign Affairs.....	Dr. ANTONIO BACHINI.
Minister of Public Works.....	Señor D. JUAN LAMOLLE.
Minister of Public Instruction and Industry.....	Dr. ALFREDO GIRIBALDI.
Minister of War and Marine.....	Lieut. Gen. EDUARDO VAZQUEZ.
Minister of the Treasury.....	Dr. BLAS VIDAL.

NOTE.—List of cabinet officials corrected to July 20, 1909.

The salary of the President is \$36,000 per annum.

## URUGUAY IN 1908.

President WILLIMAN, in his message to the General Assembly delivered on February 19, 1909, took occasion to refer to the prosperity enjoyed by the Republic during the year 1908, which was an epoch-marking one for the country in many respects. Every branch of commerce and national industry reported unequaled prosperity; crops and prices were greater than ever before, customs receipts reached a figure in excess of all previous records, municipal traffic increased 100 per cent over 1907, and the profits reported for banking institutions were enormous. A recently enacted mining law (April 30, 1909) is designed to develop greater interest in this branch of national industry by permitting the free entry of requisite equipment.

### FOREIGN AFFAIRS.

Relations with other countries continued on a friendly and cordial basis, as evidenced by the visits of foreign fleets on missions of friendship and by beneficial arrangements of outstanding questions with adjoining Republics. The Brazilian Government conceded navigation privileges on the River Yaguaron and Lake Merim, and the solution of certain questions with the Argentine Republic was effected. A criminal extradition treaty with the United States was concluded and a naturalization treaty with the same country arranged, subject to legislative approval.

### FINANCE.

The estimated expenditures for the financial year 1909, as presented to the General Assembly, fixed the amount at approximately \$20,000,000, which is an increase over 1908 of \$1,647,000. The fiscal year

ended June 30, 1908, showed a surplus of \$2,027,166, while the steadiness of revenue receipts and continued progress in all branches of national activity justify the prediction of a surplus of nearly \$1,500,000 for the year 1908-9. The custom-house receipts showed a consistent and steady increase, the aggregate revenue from this source during the year 1907-8 reaching the total of \$13,365,525 and exceeding by \$399,796 the receipts for 1906-7. The monthly receipts averaged \$1,113,794, the actual figures showing less than \$1,000,000 in only two months of the twelve. The receipts from this source for the year 1908-9 are estimated at \$12,045,000, and a revision of the existing tariff, now under consideration by the Ministry of Finance, is expected to still further augment the national income through this source of revenue.

The public debt of the nation at the beginning of the year 1908 amounted to \$128,138,917, and by December 31 of the same year it had risen to \$130,157,089. The service of the debt was punctually discharged and during the year new bonds issued. The Bank of the Republic, which, since its establishment in 1897, has realized profits amounting to \$5,183,916.52, reported for 1908 the most prosperous year of its existence, the surplus reaching the total of \$1,054,899.21. Of this amount 10 per cent has been added to the reserve fund, 10 per cent allotted to the discharge of bonus shares, \$485,980 applied to the 1896 loan, \$51,700 for the legislative palace, and the remainder applied to the paid-up capital of the bank.

#### COMMERCE.

The foreign commerce of the Republic for the year was represented by \$71,899,324, as compared with \$69,576,000 in 1907, for which, until the delivery of the President's message, only a general estimate had been obtainable. Imports are reported as \$34,618,804 and exports \$37,280,523, respectively, as compared with \$34,425,000 and \$35,151,000 for the year 1907. According to statistics of the United States, that country figured in the export trade of the Republic for \$2,106,943 in 1908 and \$2,902,085 in 1907, and in the import trade for \$3,134,694 and \$3,971,001, respectively. Ninety-four per cent of the country's exports consisted of live-stock products—hides, jerked beef, frozen meat, meat extracts, and tallow. Dairy products are gradually taking an important place on the export list, Buenos Aires and European cities being the leading purchasers.

The wool-exporting season for Uruguay, which closed on September 30, 1908, recorded shipments for the preceding twelve months amounting to 94,418 bales, while shipments for the season of 1907 amounted to 81,534 bales and in 1906, 74,636 bales. The principal ports of destination were Marseilles, Bordeaux, Hamburg, Bremen,

Dunkirk, Antwerp, Havre, and Liverpool. In this record advanced shipments were noted for all of these ports, whereas shipments to New York declined to 1,599 bales in 1908, as against 5,359 in 1907.

Exports of hides and skins aggregated 1,752,975, being practically the same as in 1906-7. Of this product the United States took 452,142, Belgium 344,386, Germany 323,261, France 198,234, and other European countries, exclusive of Great Britain, 362,914. Other articles of export were 23,317 sheep, 288 cattle, 304 mules, 94,028 quarters of beef, 510,760 bales jerked beef, 2,723 tons of bones, 77,725 bales of hair, 15,224 hogsheads of tallow, 15,939 pipes and casks of same, 122,132 carcasses, and 1,408 mutton quarters.

Shipments to the United States and Porto Rico, as recorded on the consular files, comprised hides to the value of \$2,674,172.34; wool, \$553,398; dried beef, \$137,776.74; bones, \$62,751.27; feathers, \$24,031.73; and glue stock, \$6,599.97. Although complete detailed export statistics are not available, there were shipped abroad through the port of Montevideo in 1908, 34,662 tons of wheat, 7,799 tons of bran, 6,928 tons of flour, 692 tons of corn, and 143 tons of barley. This is significant in view of the fact that a few years ago Uruguay imported cereals and flour.

The latest statistics (1906) showing the participation of other countries in trade with Uruguay credits to Great Britain 17.03 per cent, or \$12,300,000; France, 16.66 per cent, or \$12,020,000; Germany, 14.28 per cent, or \$10,300,000; and the United States 7.89 per cent, or \$5,695,000. In the import trade Great Britain is represented by 28.32 per cent; France, 11.65; Germany, 15.67; and the United States, over 9 per cent; while of the exports Great Britain received 5.41; France, 21.79; Germany, 12.84; and the United States, 5.97 per cent.

With the establishment of the free zone a large transit trade will be opened up with neighboring countries, as the relations existing between many of the business houses of Montevideo and those of Paraguay, Argentine Republic, Chile, and Brazil are such as to insure beneficial results for all interested.

The live-stock trade of the country was greatly stimulated by the cancellation of the duties imposed on cattle, mules, horses, sheep, and goats by the Brazilian Government.

#### PRODUCTION AND INDUSTRIES.

At present the leading products of the country are agricultural and pastoral, the former including wheat, flour, corn, linseed, barley, hay, and tobacco, and the latter representing a total of about 30,000,000 head of stock, embracing approximately 7,000,000 cattle, 20,000,000 sheep, 600,000 horses, 100,000 hogs and mules and goats. There were imported into the Republic during the year, through the

port of Montevideo for breeding purposes, over 1,500 head, and 16,123 head through other ports. Exports for the year numbered 253,851, of which 33,960 head were shipped through Montevideo. An appropriation of \$40,000 was made during the year for the support of live-stock exhibits for the purpose of stimulating the industry to the greatest possible extent.

Of the great estancias or grass farms devoted to the raising of live stock, the Liebig Company owns seven in Uruguay for the supply of its extract factory at Fray Bentos. The killing season commences early in January and lasts until June, and during the year



LIVE STOCK EXPOSITION AT MONTEVIDEO, URUGUAY.

Cattle raising is one of the leading industries of the country. In 1908 the Republic exported 175,636 head of cattle.

1907, 252,630 cattle were slaughtered. The killing is done under the inspection of an expert of the company, and great care is used in the selection of the animals.

The cereals under cultivation in the Republic during the year 1907-8 represented areas as follows: Wheat, 617,000 acres; flax, 64,000; oats, 8,000; barley, 5,000; and alpiste or canary seed, 700. The wheat production for the year was 202,208 tons, and flax 18,372 tons. The production of corn was 3,011,726 bushels, grown on 410,068 acres. Experiments with this crop are being conducted at the agricultural experiment station of the University of Montevideo, utilizing new methods and modern machinery.

Wine production amounted to 4,904,321 gallons. Shipments of fruits, reaching thousands of tons, were made to Buenos Aires and Brazilian ports. Vegetables, medicinal plants, and tobacco were grown in moderate quantities. Experiments conducted with the mulberry tree show that silk culture might be undertaken to advantage in the country.

A topographical survey is being made by the Government with the view of thoroughly investigating the climatic and soil conditions of the country for the purpose of encouraging the crops most suited to the different sections.

The development of the native flax is assured under the law revoking the import duties on the machinery and apparatus used in the extraction of this fiber and its elaboration. The law further provides that no export tax shall be levied on the manufactured products of this industry for a period of three years from the date of the promulgation of the law.

Dairy interests are likewise receiving the support of the Government, factories and requisite machinery being exempted from taxation for ten years, and the sum of \$20,000 appropriated for a National Exhibition of Dairy Products to be held during the winter of 1910.

While Uruguay produces in great abundance raw materials and foodstuffs, mostly animal products, the establishment of manufacturing industries on a large scale is hindered by reason of insufficient supplies of fuels and materials, not because the country has not the one and can not produce the other, but because production in both lines is inadequately exploited. The country is rich in minerals, and commercial coal has been discovered in various localities, but dependence is placed on foreign fuel, machinery, and a large number of primary and secondary materials needed in the manufacturing industries.

During 1908 the gold mining works of Cuñapiru crushed 20,515 tons of ore, yielding 102.395 kilograms of gold worth \$45,056. Alluvial deposits and quartz have been found in the Departments of Minas, Treinta y Tres, Montevideo, and Rivera, although only two mines are in operation, yielding, during 1908, 20,514 tons of ore and 2,708 ounces of metal, worth \$46,585.63.

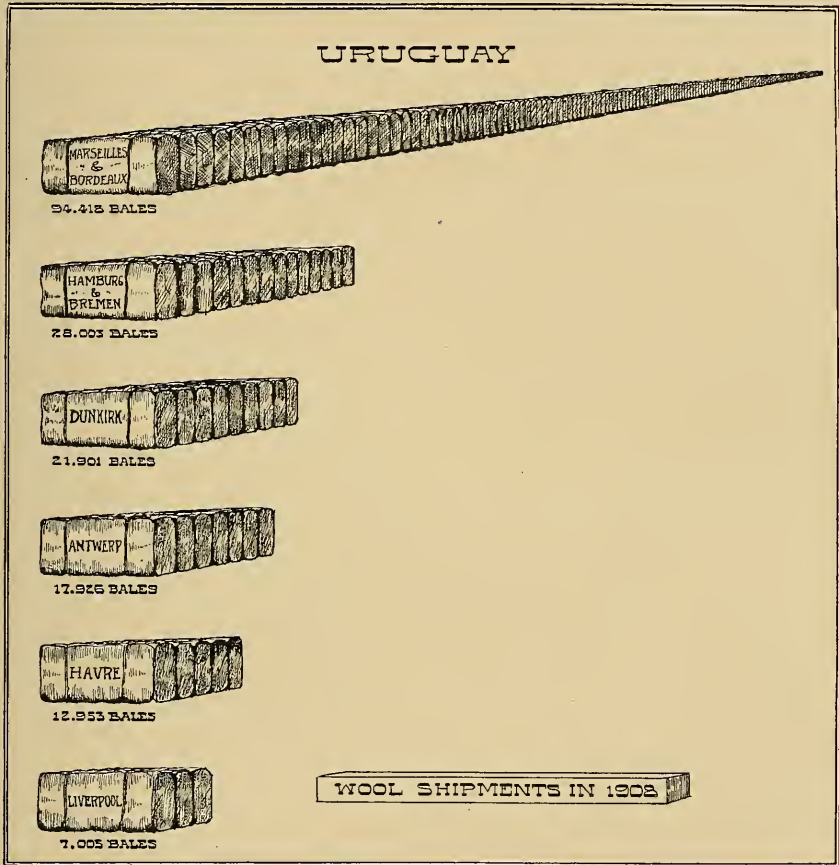
The Uruguay Mining Syndicate, an English company, has secured four gold-bearing concessions called, collectively, the Zapuca mines, and four others, called Grupo Independencia, in the Department of Cerro Largo. They are to be worked by four distinct companies, each being capitalized at \$2,433,250.

Coal, whose existence in commercial quantities has frequently been reported, is mined in the Departments of Montevideo, Santa Lucia,



and Cerro Largo. In the latter instance a company has been formed for the adequate exploitation of the beds. The Cerro Largo coal, as well as that of Santa Lucia, is of good quality. Peat coal is found in Maldonado and Montevideo, and peat alone also exists near the Bay of Maldonado.

Petroleum, while of known existence, has not been found as yet in paying quantities.



Asbestos, antimony, graphite, copper-silver, and copper-iron, as well as iron, are found in various sections.

The Government is liberal in the privileges it offers for the adequate development of its mineral resources, allowing the free importation of requisite machinery and implements and granting ample protection to investing companies.

Gems and various semiprecious stones are also known to abound in the Republic.

## COMMUNICATION.

Railroads in operation during the year had a total mileage of 1,447 miles, of which 780 miles were under State guaranty. The Central Uruguay Eastern extension opened two sections in May and November and another is scheduled for opening in May, 1909. Work was begun on the Midland branch from Algorta to Fray Bentos and on the Eastern extension to La Sierra and Maldonado.

The rolling stock of the lines comprised 146 locomotives, 136 passenger coaches, 81 luggage vans, and 2,580 cargo and cattle trucks. Cargo was transported to the amount of 1,211,861 tons and passengers were carried to the number of 1,157,875. Gross revenues were \$4,362,666, with profits of \$1,783,057.

The total amount of railway capital now guaranteed is \$28,195,399.

A bill has been introduced in Congress providing for the construction of a section of railroad connecting the port of Colonia with the Brazilian railway system. The completion of this line will insure direct communication between Rio de Janeiro and Montevideo and will reduce the journey to four days. It is also proposed to improve the harbor at Colonia.

In the capital, transition has been made from animal to electric traction in the tramway service, the total car mileage for the year being 4,716,906. The tram line between the Santa Lucia *saladeros* and Montevideo has an extent of 21.75 miles, part steam and part animal traction.

## STEAMSHIPS AND WATERWAYS.

Uruguay is easily accessible both from the Atlantic Ocean or from the Rio de la Plata (River Plate) and Uruguay River, possessing numerous ports along the latter, which afford an easy and convenient outlet for its products.

Its principal port and commercial center is Montevideo, the capital, situated on the estuary of the Rio de la Plata, at its mouth in the Atlantic Ocean, where the largest ocean-going vessels may enter. The other ports on the Atlantic are Maldonado and La Paloma, while on the Rio de la Plata are Colonia, Puerto Sauce, Conchillas, and Martin Chico; and on the Uruguay River there are as many as ten ports open to interoceanic trade, viz, Carmelo, Nueva Palmira, Soriano, Fray Bentos, Nuevo Berlin, Casa Blanca, Paysandu, Nuevo Paysandu, Salto, and Santa Rosa. On the Rio Negro is the interior port of Mercedes and on the San Salvador River the port of the same name.

Montevideo is reached from New York either by the Lamport & Holt Line, sailing on the 20th of each month and making the run to Montevideo in twenty-one days, fare, \$190 to \$250; by the steamers of the Lloyd Brasileiro, or by the Prince Line boats. The last two

named employ from twenty-five to twenty-eight days, charging \$135 for first-class passage. The Barber Line, the Norton Line, and the Houlder Line steamships also ply between New York and Montevideo, with irregular sailings and but limited passenger accommodation.

The Lamport & Holt Steamship Company maintains a service between Rio de Janeiro and New York, sailing three times a month and transferring its passengers for Montevideo or Buenos Aires to the steamers of the Royal Mail Steamship Company at Rio de Janeiro.

With the West Coast connection is maintained by means of the Kosmos Line and the Pacific Steam Navigation Company, the former plying between San Francisco and Hamburg and the latter between Panama and Liverpool. With European ports a number of fast and elegantly fitted steamers establish direct communication, plying regularly between Montevideo and Liverpool, Southampton, Marseilles, Bordeaux, Genoa, Naples, Barcelona, Vigo, Hamburg, Bremen, Antwerp, and Rotterdam; the New Zealand Steamship Company maintains a regular service with New Zealand and Australia.

The excellent and extensive river system of Uruguay provides the country with over 700 miles of navigable rivers, the most important being the Rio de la Plata and Uruguay River, which together furnish over 500 miles. The Uruguay River is navigable for vessels of 14 feet draft as far as the city of Paysandu, and above that for vessels of 9 feet draft. The Rio Negro is navigable for ocean-going vessels as far as the city of Mercedes, and above that for light-draft vessels; and the Cuareim, Yi, Tacuarembó, Queguay, Arapey, Cebollati, Santa Lucia, San Jose, Yaguaron, Olimar, Tacuari, Dayman, San Salvador, and San Luis are all navigable short distances for ocean-going vessels and for small craft into the interior of the country.

The only lake of any importance is Lake Merim, situated on the border of Brazil, and on which a regular line of steamers maintains communication with the different towns along its shores.

The *Compañía de Navegación Mihanovich* has established a regular service between Montevideo and Buenos Aires and ports on the Uruguay and Paraguay rivers. The city of Asuncion, Paraguay, is reached from Montevideo by one of the steamers of this company in six days.

Of the steamship lines calling at Montevideo, 18 are under British register, 7 German, 3 French, 4 Italian, 2 Spanish, 1 Swedish, 1 Dutch, 1 Austrian, and 1 Brazilian. Of these, 7 freight and 2 passenger and freight lines run to United States ports.

The total number of steamers entering the port of Montevideo during the year was 3,064, with a tonnage of 6,783,788; and of sailing vessels 259 with 148,925 tons burden; clearances reported being 3,014 with 6,642,128 tons and 295 with 160,157 tons for the two classes of vessels, respectively. In the former class British ships predominated,

while in the latter Argentine vessels outranked other nationalities, followed by Italian and native registers.

At interior ports 380 steamers arrived with 243,871 tons burden, clearing to the number of 394 with 260,864 tons; while sailing vessels to the number of 1,076 with 39,227 tons entered and 1,078 with 48,541 tons cleared.

In the shipping lists Uruguayan vessels figure largely, 102 steamers and 50 sailing vessels having entered Montevideo during 1908 under national register, and at interior ports 194 steamers and 973 sailers.

The Uruguayan Government is desirous of encouraging the repairing and building of vessels in the Republic, and in accordance with a recently enacted law free entry through the customs is allowed for such materials as are required for the construction, installation, working, and preserving of the dockyards, shipyards, and dry docks existing or to be established during the ensuing twenty-five years.

Engineering works under government supervision progressed satisfactorily. Of the 35 bridges planned, 12 were completed, 7 commenced, and 10 more are in course of construction. The Montevideo port works made normal progress. The construction of the moles is proceeding. Sanitary works are to be completed during 1909.

The general scheme for the necessary installations of the new port have been approved and \$500,000 voted for the work.

In addition to continuation on the work of harbor improvements at Montevideo, for which a supplementary appropriation of \$1,375,000 was made on April 15, 1909, in conjunction with the approval of the contract therefor, the Government has decided to develop the port of La Palma, about 150 miles to the east, and about \$1,000,000 are to be expended on improvements at Colonia, provided the proposed Pan-American extension from Pernambuco is completed.

There still remain unexpended over \$3,500,000 for transit works, to which the Chambers have been asked to add \$5,170,000, so that not only the original plans may be carried out, but also valuable additions made. Several new bridges are to be built and the canalization of the Rio Negro effected. For sanitary works in the interior \$517,000 have been appropriated and other improvements provided for, including \$20,680 as a bonus for the establishment of a sugar refinery at La Sierra.

#### POSTS AND TELEGRAPHS.

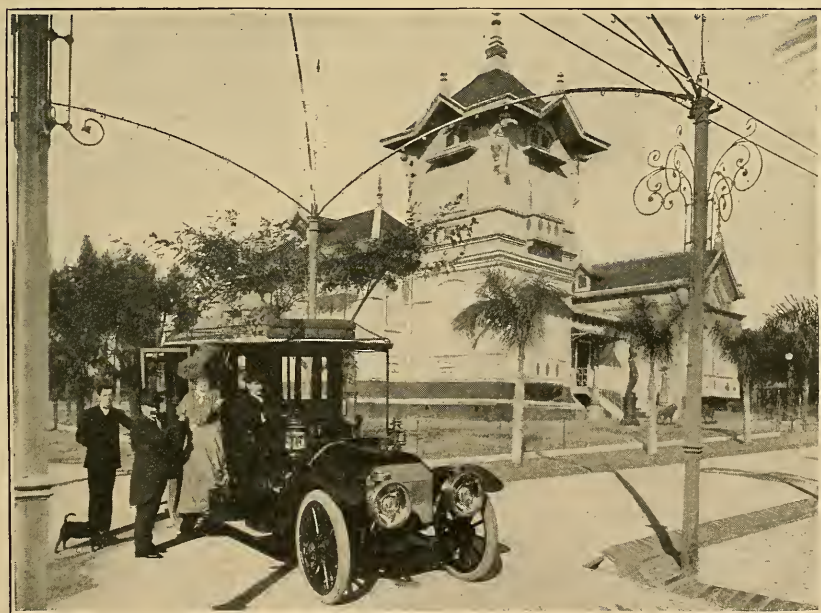
At the close of 1908 post and telegraph offices in the Republic numbered 1,025, of which 13 new branches, 53 agencies, and 3 telegraphic offices had been established during the year. The movement of correspondence was 108,113,772 pieces, an increase of 11,667,055 pieces over 1907. Telegrams were transmitted to the number of

283,528, showing an increase of 35,375. Postal revenues amounted to \$595,391, an increase for the year of \$17,298, and being \$40,000 more than the budget estimate.

Wireless equipment for telegraphic communication has been established at Montevideo and Punta del Este and a station is under construction on Lobos Island. A national telephone service is to be opened in the capital.

The number of public schools at the close of 1908 was 1,781, an increase of 110 over the previous year, and an increased attendance of 7,000 is reported. Private schools in the capital numbered 180 and evening schools and industrial courses are included in many of the educational institutions. In December the faculty of commerce at the University of Montevideo was established as a school of commerce.

Colonization projects occupied the attention of the Government and the employment bureau did valuable work. Preliminary study of a pension bill and of a child and female labor law is being made, and sanitary works have been made the object of a large appropriation.



# VENEZUELA

The United States of Venezuela occupy the northernmost part of the South American continent, stretching in a northwesterly direction along the Atlantic Ocean and the Caribbean Sea and bounded on the land side by Colombia, Brazil, and British Guiana. The country has an area of 593,950 square miles, equal to the combined area of the States of Wisconsin, Michigan, Illinois, Indiana, Ohio, Missouri, Arkansas, Kentucky, Tennessee, Mississippi, and Alabama, with sufficient space left for several States the size of Rhode Island. Over this vast area there is distributed a population of 2,644,298, Venezuela being one of the most sparsely populated countries in South America.

Venezuela may be geographically divided into three distinct zones, viz: The extensive plains and river valleys, known as the *Ulanos*, affording excellent pasturage for numerous herds of cattle; the mountain section, formed by the three mountain ranges; and the dry and healthful table-lands or plateaus.

This variety of physical features produces an equal variety of climate, products, and soil. Coffee, cacao, tobacco, and sugar cane are largely grown and exported, and wheat and other cereals thrive, but are mostly used for home consumption. The slopes of the mountains are heavily wooded and contain quantities of timber and many useful trees and plants, among them *divi-divi* (*Cesalpinia coriaria*), the pods furnishing an excellent material for tanning; *fustic* (*Machura tinctoria*), yielding an excellent yellow dye; *Indigofera anil* and *Indigofera tinctoria*, yielding indigo; *Castilloa elástica* and *Hevea brasiliensis*, yielding rubber, and numerous cabinet and other useful woods. The mines produce precious and useful metals, gold, silver, copper, and lead, the various asphalt lakes yield the best qualities of asphaltum, and along the coast pearls are found at different points. The principal exports of Venezuela are hides and skins, live cattle, coffee, and cacao.

## HISTORICAL SKETCH.

The Venezuelan coast was first sighted by COLUMBUS on August 1, 1498, on his third voyage, and was successively explored by ALONSO DE OJEDA, ALONSO NIÑO, and others. The country at that time was inhabited by no less than 150 tribes of Indians, speaking 11 different languages and 150 dialects, among which the Caribs and Teques

were the most warlike and savage. They succeeded for many years in preventing the permanent settlement of the country, and it was here that the Spaniards encountered more difficulty and fiercer resistance from the aborigines than anywhere else in America.

In 1527, the Emperor Charles V granted the Province of Venezuela to the BELZARES family, who dispatched AMBROSIO DE ALFINGER to bring it under subjection. ALFINGER and his successors did not, however, succeed in establishing Spanish authority beyond the coast strip, and it was not until the year 1545, when the Spanish Crown dispatched JUAN DE CARVAJAL and annulled the concession of the BELZARES family, that any permanent settlement in the interior was effected. The Spanish dominion was then gradually extended over the whole country, the Indians being enslaved wherever this was possible and treated with the utmost cruelty. This led to numerous rebellions, the Indians of Venezuela not being of the pacific, submissive character of those of Peru and other countries.

The British, French, and Dutch buccaneers added to the difficulties of the Spanish authorities by frequent attacks on the coast towns.

In 1718 the viceroyalty of New Granada was created and the territory of what is now Venezuela passed under the jurisdiction of the Viceroy at Bogota.

The first movement for independence was initiated in Venezuela as early as the year 1797 by the patriots GAUL and ESPAÑA, but, like many others which were to follow, it failed, the initiators being condemned either to death or banishment. Gen. FRANCISCO MIRANDA'S first efforts to free the country from the Spanish yoke likewise failed. In the year 1810 the citizens of Caracas rose against the Spanish authorities, and on the 19th of April deposed the Spanish Governor, Don VICENTE EMPARÁN. A Constitutional Congress met on March 2, 1811, and on July 5 of the same year formally declared the independence of the United Provinces of Venezuela. The war of this first revolution lasted until 1812, when MIRANDA was defeated by the Spanish troops and Spanish authority again reestablished. In the year following SIMÓN BOLIVAR took up arms against the Spanish authorities and war was waged with varying success until BOLIVAR defeated the Royalists at the battle of Boyaca on August 7, 1819. This defeat ended the Spanish dominion in northern South America, the Viceroy, SÁMANO, fleeing from Bogota shortly after Boyaca.

On December 17, 1819, Venezuela became a part of BOLIVAR'S Greater Colombia, and upon the disruption of the Federation, Venezuela declared its secession and absolute independence on September 22, 1830.

Gen. JOSÉ PAEZ was elected the first President of the Republic. Under succeeding Presidents several attempts were made to change

the form of government, and on February 20, 1859, by vote of a majority of its citizens Venezuela declared itself in favor of a Federal Republic, which form of government was finally and definitely adopted. The present Constitution of Venezuela was promulgated April 27, 1904.

Gen. JUAN VICENTE GOMEZ, the present incumbent of the Presidency, assumed the office in 1908, upon the retirement of Gen. CIPRIANO CASTRO. His term of office will expire May 22, 1911.

#### CONSTITUTION AND GOVERNMENT.

Venezuela, officially termed The United States of Venezuela, is one of the five federal unions of America, which have adopted the federal, representative, republican form of government. The several States of Venezuela are autonomous in their internal government with certain limited powers only vested in the Federal Government.



GENERAL J. VICENTE GOMEZ,  
PRESIDENT OF VENEZUELA.

Legislative power is vested in the National Congress, composed of two chambers, the Senate and the House of Deputies. The members of the former are elected by the legislatures of the States, two Senators to represent each State, for a term of six years. Deputies are elected by direct vote for a term of six years, every citizen over 21 years of age being entitled to vote.

The President and two Vice-Presidents are elected for a term of six years by an electoral body chosen by the people for that purpose. They may not be reelected for a term in direct succession.

A Cabinet of seven Ministers or Secretaries of State assists the President in the administration of the Government. The Cabinet is appointed by the President and is responsible to him alone.

The Federal judiciary comprises a Supreme Federal and Appellate Court, several courts of appeals, and a number of minor courts. The justices of the Supreme Court, seven in number, are elected by the National Congress for a term of seven years.

#### INTERIOR GOVERNMENT.

Thirteen States, five Territories, and a Federal District comprise the United States of Venezuela, the States electing their own executive, legislative, and judicial authorities. The Territories are administered by a Governor appointed by the President of the Republic, as is also the Federal District, the Governor of the latter having, however, a Municipal Council, elected by the people, to assist him.



The States and Territories with their respective capitals are :

State of—	Capital.
Aragua.....	La Victoria.
Bermudez.....	Cumana.
Bolivar.....	Ciudad Bolivar.
Carabobo.....	Valencia.
Falcon.....	Coro.
Guarico.....	Calabozo.
Lara.....	Barquisimeto.
Merida.....	Merida.
Miranda.....	Ocumare.
Tachira.....	San Cristobal.
Trujillo.....	Trujillo.
Zamora.....	San Carlos.
Zulia.....	Maracaibo.
Territory of—	
Amazonas.....	San Fernando de Atabapo.
Colon.....	Gran Roque.
Cristobal Colon.....	Cristobal Colon.
Delta Amacuro.....	San Jose de Amacuro.
Yuruari.....	Guacipati.

The Federal District comprises the city of Caracas, the capital of the Republic.

President.....	Gen. JUAN VICENTE GOMEZ.
Minister of the Interior.....	Gen. FRANCISCO LINARES ALCÁNTARA.
Minister of Foreign Affairs.....	Dr. FRANCISCO GONZALEZ GUINÁN.
Minister of the Treasury and Public Credit.....	Dr. JESUS MUÑOZ TEBAR.
Minister of War and Marine.....	Gen. M. V. CASTRO ZAVALA.
Minister of Fomento.....	Gen. RAFAEL MARCÍA CARABAÑO.
Minister of Public works.....	Dr. ROBERTO VARGAS.
Minister of Public Instruction.....	Dr. SAMUEL DARÍO MALDONADO.

NOTE.—List of cabinet officials corrected to July 20, 1909.

The salary of the President is \$12,000 per annum.

## VENEZUELA IN 1908.

During 1908 the presidential office in Venezuela was transferred from Gen. CIPRIANO CASTRO to President JUAN VICENTE GOMEZ, who had previously held the office of Vice-President.

Despite certain internal disturbances, the country faithfully discharged its obligations to the bondholders under the financial arrangement of 1905 and effected the payment of the various claims of the Powers under the protocol of 1903. The payments on account of the foreign debt during the last six months of 1908 aggregated \$564,000.

Numerous decrees recently issued provide for conditions whereby certain restrictions on trade and industry throughout the Republic are removed and distribution made of certain moneys for public expenditure in different States. In May, 1909, the export duties on coffee, cacao, and hides were removed, and during 1908 such modifica-

tions were made in the tariff law of January of that year as national exigencies demanded.

A commission has been appointed charged with the revision of the legal code of the Republic, and commerce with the neighboring countries is being developed through the repealing of fluvial regulations, which have been found detrimental to transit trade.

The cable service with Europe was resumed under the contract with the French company made in May, 1909, and an arbitration treaty with Brazil has been signed, to become effective upon the exchange of ratifications by the two Governments.

The relations of the States of the Republic among themselves and with the National Government continue most cordial, and the decree of January 26, 1909, repealing the decree of August 2, 1907, has contributed to the further strengthening of these bonds.

#### FOREIGN RELATIONS.

Friendly relations have been renewed with Holland, from which country a confidential agent has been accredited near the Government of Venezuela and a protocol concluded on April 19, 1909.

The United States of North America, after having closed its legation in Caracas, subsequently sent a Peace Commissioner to Venezuela, and the result of his negotiations was the protocols of February 13, 1909, and the reestablishment of the legations of both countries in their respective capitals.

Colombia has also accredited a special representative, and negotiations are being made for the celebration of a treaty of navigation, boundary, and commerce.

The friendly and equitable adjustment of the differences with France and the favorable progress of the negotiations with the representative of that country give rise to the hope that in a short time the two nations will resume most cordial and reciprocal relations.

Relations with Germany are being strengthened, as is shown by the kind reception given by the Emperor to the special mission recently accredited to that country, and the pact of amity, commerce, and navigation made on January 28, 1909.

The acceptance of the arbitral decision of the claim of the Caracas Water Company removed all differences existing between that country and Belgium.

The protocols of December 9, 1905, concerning the boundary with Brazil, have been approved by the Brazilian Congress, but the exchange of ratifications has not yet been made.

The first general arbitration convention celebrated with a neighboring State is that made with Brazil in Caracas on April 30, 1909.

Venezuela was represented in the Second Peace Conference of The Hague, and a number of pacts were subscribed to by her delegates to that conference.

## FINANCE.

In July, 1907, Venezuela's obligation to Great Britain, Germany, and Italy, by virtue of the protocols of Washington, was canceled, the total sum paid having aggregated \$3,567,000.

Since August, 1907, Venezuela has paid to the countries not enjoying preferential treatment 30 per cent of the customs receipts of La Guaira and Puerto Cabello, amounting to, up to May 1, 1909, \$1,199,148.

The financial obligations of the Republic and the agreements made by the Government have been strictly complied with. During the fiscal years 1907 and 1908, the expenditures of the Government on account of these obligations amounted to \$3,904,000, and from January 1 to March 31, 1909, \$484,000, or a total outlay of \$4,388,000, all of which, in accordance with the protocols of Washington, went to the foreign powers, the 3 per cent diplomatic debt of 1905, the debt contracted on account of diplomatic agreements, and the non-amortized diplomatic agreement debt. The payments on account of the internal debt from January 1, 1907, to March 31, 1909, amounted to \$1,216,703.

The outstanding internal 3 per cent debt on March 31, 1909, was \$12,040,000, and the outstanding external debt on the same date was \$26,253,000, or a total of \$38,293,000.

## COMMERCE.

The commercial transactions for the twelve months show a total of \$24,339,640. In the preceding year an aggregate of \$26,540,905 was reported.

Import values were \$9,778,810 and exports \$14,560,830. The principal receiving countries were the United States, \$5,550,073; France, \$5,496,627; Great Britain, \$1,447,784; Germany, \$908,260; the Netherlands, \$763,642; Cuba, \$604,102; and Spain, \$589,560.

United States statistics note receipts of Venezuelan merchandise during the calendar year 1908 to the value of \$7,028,180 and shipments to the Republic to the amount of \$2,566,022, the values being practically the same as in the preceding twelve months.

The commerce of the country for the first half of the fiscal year 1907-8 consisted of exports valued at \$8,613,000 and imports, \$4,984,000. Imports were received as follows: From Great Britain, \$1,804,000; United States, \$1,256,000; Germany, \$823,800; and the Netherlands, \$462,400. Shipments were made to France, \$3,409,000; United States, \$3,097,000; Great Britain, \$622,000; Germany, \$485,000; the Netherlands, \$365,000; and Spain, \$325,000.

The principal exports for the period were: Coffee, 58,489,200 pounds; cacao, 22,598,021 pounds; divi-divi, 8,714,255 pounds; cattle and asphalt. Rubber shipments aggregated 869,591 pounds, and ox-hides and goatskins together, 2,481,298 pounds.

#### PRODUCTION AND INDUSTRIES.

The exploitation of native products forms the basis of Venezuela's industrial life. The area under coffee is estimated at about 200,000 acres, the number of estates being over 33,000, and the product in 1907, 42,806 tons. Cacao growers operate 5,000 estates, 14,000 tons being exported, and sugar planters about 11,000, the annual production being about 3,000 tons. Cotton is grown in exportable quantities and the forest regions abound in rubber and fine timber. A contract for the exploitation of the forests of the Orinoco Delta has been approved by the Government and concessions covering the Rio Negro and El Caura rubber sections contain special stipulations against the willful destruction of the trees. The cultivation and manufacture of tobacco is an important branch of industrial life, and rice-growing is made the subject of special bounties in certain States.

New enterprises are covered by recently granted concessions for the culture of fiber plants and the development of the textile industry, also for linseed oil factories, paper mills, and cement works.

The live stock of the country is estimated at over 6,000,000 head, including 2,000 oxen, 1,600,000 goats, and 1,600,000 pigs.

The country is rich in minerals; gold, copper, silver, iron, and salt being profitably mined. Asphalt is exported to the United States in large quantities.

The coal output in 1906 was over 14,000 tons, and newly discovered deposits in the States of Zulia and Merida are exploited under a concession granted in April, 1908, 20 per cent of the profits being paid to the Government. Salt is a government monopoly, the mines being operated, in accordance with the decree of January 27, 1909, by agents of the Federal Government. The yearly rental is \$700,000.

The threatened extinction of the pearl beds on account of over exploitation has necessitated the repeal, for an indefinite time, of the pearl-fishing concession and the prohibition of oyster fishing.

#### COMMUNICATION FACILITIES.

The total length of railways in operation in the Republic is about 540 miles. The number of lines, according to latest information, was 12, with an invested capital of over \$40,000,000. Receipts for the first half of 1908 were about \$800,000 and expenditures \$600,000. In connection with the lines there have been constructed 716 bridges and 109 tunnels.

The Central Railway Company of Venezuela continues the laying of its tracks toward Santa Lucia, notwithstanding the fact that the questions between the company and the Government have not yet been settled.

With its favorable geographical position on the Caribbean Sea and the Atlantic Ocean and with a coast line of more than 2,000 miles, Venezuela possesses no less than 50 bays and 32 ports, the most important of which are La Guaira, the principal port and commercial center, Puerto Cabello, Guanta, and Cumana, at which ocean-going vessels call regularly. Ciudad Bolivar, on the Orinoco River, 373 miles inland, and Maracaibo, on Lake Maracaibo, are the most important inland ports of Venezuela.

The Atlas Line, the Royal Dutch West India Line, and the Red D Line maintain a regular service between New York and Venezuelan ports, the Atlas Line calling at La Guaira and Puerto Cabello, the Royal Dutch West India Line at Puerto Cabello, La Guaira, Guanta, Cumana, Carupano, and Margarita Island, and the Red D Line at La Guaira, Puerto Cabello, and Maracaibo. These steamers take from seven to nine days to make the trip from New York to Venezuelan ports, first-class passage being \$60 to \$75.

The waterways of Venezuela form important means of communication and transportation, there being no less than 70 navigable rivers in the country, with a total navigable length of over 6,000 miles, of which the mighty Orinoco, the third largest river in South America, with its tributaries, furnishes nearly 4,000 miles. The more important of the other navigable rivers are the Meta, the Apure, the Portuguesa, and the Yaracuy, all of which are navigated by steamships for considerable distances. The Catatumbo River flows into Lake Maracaibo, and is navigable for small steamers, while the majority of the other rivers are navigable for steam launches and flat-bottom boats only.

A regular steamship service is maintained on the Orinoco, Apure, and Portuguesa between Ciudad Bolivar, the principal port on the Orinoco and the interior, as well as points along the coast. Ocean-going vessels enter Lake Maracaibo, which covers an area of 8,000 square miles and is navigable in its entirety. Lake Maracaibo is connected with the Gulf of Venezuela and the Caribbean Sea by means of a strait 34 miles in length and from 5 to 9 miles wide. Numerous other lakes are found throughout the country, Lake Valencia being the most important of these, owing to its favorable situation between Puerto Cabello and La Guaira and Caracas. It is navigated by small steamers.

The Escalante River has been opened to free navigation.

Steamships are engaged in the coastwise trade along the coast of Venezuela, and call regularly at the islands of Margarita, Curaçao, and Trinidad.

The capital of the Republic, Caracas, can be reached either from La Guaira or Puerto Cabello, with both of which it is connected by rail, the former being but 22 miles from Caracas.

#### POSTS AND TELEGRAPHS.

From the close of 1907 to March 31, 1909, 14 new post-offices were established in the Republic, and 21 discontinued post-offices reestablished. The cost of the maintenance of the post-offices from 1907 to March 31, 1909, was \$138,000. The expense of transporting the mails during the same period was \$237,000. The Red D Line has reduced the charge for the transportation of the mails, and important changes have been made in the rules governing the importations of postal parcels.

Ten new telegraph offices were opened during the fifteen months, four new telegraph lines constructed, and two lines are in process of construction. The receipts from the telegraph service from 1907 to March, 1909, were \$148,000.

The dispute with the French Submarine Cable Company has been settled, the Government acquiring the coastwise cable system and a reduction in the rates.

The telegraph system comprises an extent of 4,552 miles with 161 offices. During the first six months of 1908 the Government extended the system by 26 miles, repaired 735 miles, and rebuilt 556 miles of wires. At Willemstad, on the island of Curaçao, the Netherlands Government has established a wireless station with a range of 300 miles, open for government and public business. This station is to be connected with projected establishments in Venezuela.

#### PUBLIC INSTRUCTION.

In December, 1908, the number of public schools in the Republic was 716, which number was increased, by virtue of a decree of February 23, 1909, to 1,019. Recently, new school buildings have been constructed, old ones repaired, and plans have been made for the establishment of agricultural, veterinary, mining, and commercial colleges. Reforms and improvements have been made in the universities of the Republic, the Institute of Fine Arts, and in the normal schools. The total number of federal, municipal, and private primary schools in the country is 1,525, of secondary instruction 88, and of higher instruction 2—the University of Caracas and the University of Los Andes.

In 1907 the total amount collected for school purposes was \$761,000, as compared with \$776,000 in 1908.

On June 30, 1908, a total enrollment of 35,777 pupils was reported.

#### PUBLIC WORKS.

From May 1, 1907, to December 31, 1908, the Government spent \$628,000 in public work. A special commission of engineers is examining the port and wharves at La Guaira and a special inspector the Puerto Cabello to Valencia railroad, for the purpose of recommending the necessary improvements. The Government has purchased the works, rights, and shares of the Wharf Company at Maracaibo for \$48,600. The Executive has refused to receive the wharf at Puerto Sucre, the same not having been constructed in accordance with the provisions of the contract.

The new lease of the Caracas waterworks, made for a period of three years, produces \$10,000 per annum more than the former lease, and the Government has acquired the springs which supply the Barquisimiento Aqueduct.

The Government advocates the betterment of the service for the collection of statistics, and the Department of Public Works proposes to improve the collection and compilation of federal statistics.

The Government is desirous of attracting a good class of immigrants and many measures for the promotion of colonizing enterprises are under consideration. Hygienic methods are being applied in the centers of population, vaccination being obligatory since May, 1909, and stringent regulations are enforced in regard to the sanitary condition of arriving and departing steamers. By an Executive decree of March 17, 1909, a commission of public hygiene has charge of the sanitation of the capital, and all matters concerning the public health are submitted to its consideration.











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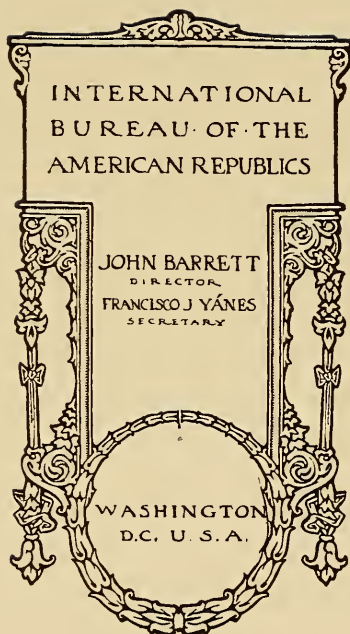
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1909



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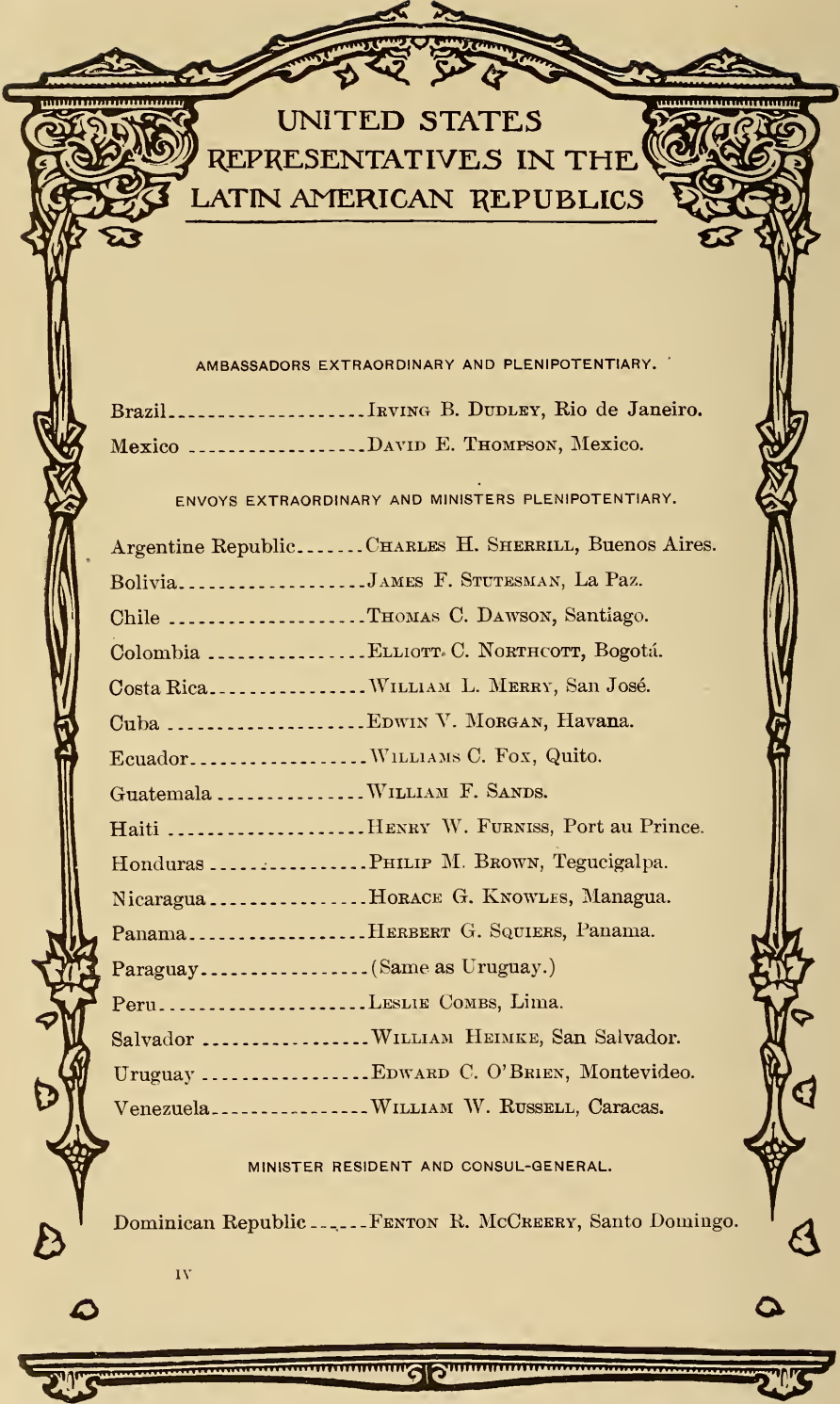
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[Paraguay has at present no representative on the Governing Board.]

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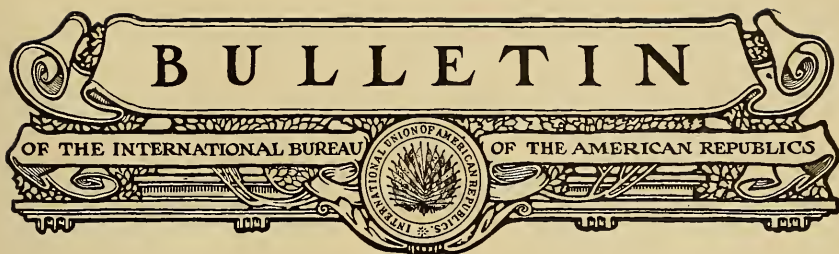
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DOCTOR NILO PEÇANHA,  
PRESIDENT OF BRAZIL.



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VOL. XXIX.

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THE great demand for the July issue of the BULLETIN, which contained the annual review of commercial and general conditions in the Latin-American Republics, commenced even before it had gone to press. The corresponding number of 1908 attracted so much attention, and was so useful to all interested in Latin America, that it evidently prompted an advance call for the 1909 review. An extra edition of this issue has been printed in order to meet this demand which has come from all parts of the world. Those who have not read it through carefully should do so, because it is an instructive and interesting statement of the prosperity and progress of the American Republics. No one who has looked doubtfully toward Latin America, or who has questioned its material opportunities, can any longer be skeptical in his views after studying the contents of the July BULLETIN. To meet the demand for information about particular countries, reprints have been made in pamphlet form of the articles on each country. These will be forwarded to all persons who may inform the Bureau that they wish to receive copies.

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SPECIAL FEATURES OF THE AUGUST BULLETIN.

Among the special features of this issue of the BULLETIN are articles on the following subjects: "Honoring the independence of the United States of America in the other Republics." "The new president of Brazil." "Annual review tactics of the Argentine navy." "Cuban development." "The natural resources of Panama." "Municipal organizations in Latin-American capitals—Caracas." "The hard woods of the American Republics—mahogany." "Gold mining in Guatemala, and the new mining law."

This list of subjects gives a fair idea of the comprehensive character of the BULLETIN under its present direction. The Bureau is following the feature of special articles because of their great popularity. The

majority of them are either copied entirely or quoted in considerable part by a surprisingly large number of magazines and newspapers in all parts of the world. Hundreds of letters have been received by the Bureau from competent critics in both North and South America, stating that they find the BULLETIN as interesting and instructive as the best magazines, and that they read it with the same interest and with even more care than they do the average popular magazine. This fact is not mentioned in the editorial columns of the BULLETIN for the purpose of praising its own work, but as a justification for changing the BULLETIN from its old prosaic and uninteresting character to its present form.

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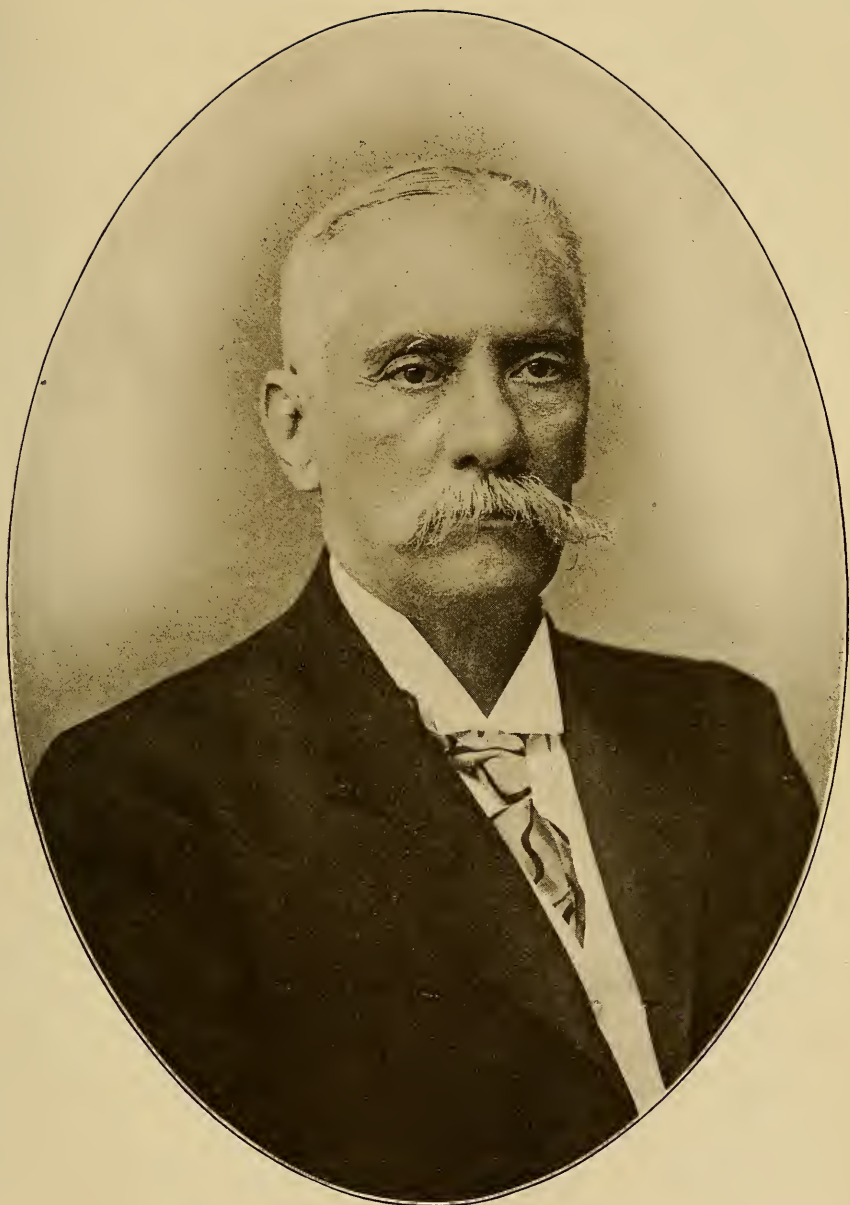
#### THE DEMAND FOR LATIN-AMERICAN DATA.

The demand for matter descriptive of the American Republics has grown to such large proportions that the Bureau has been driven to the very limit of its means to provide what is wanted. Following the issuing of a new pamphlet in regard to some country or some feature of Latin-American commerce, progress, or development, the supply is soon exhausted, owing to the quantities that must be sent out in response to requests for it. There could be no better evidence of the growing interest in Latin America than this widespread desire to read publications and pamphlets descriptive of the southern Republics. It is no exaggeration to state that the number of individual requests coming into the Bureau from all over the world for printed descriptive matter is nearly 1,000 per cent greater than it was a little over two years ago when the present administration of the Bureau began. If this interest continues to increase in the same way in the future that it has in the past, the ignorance that has prevailed in one Pan-American country regarding another will soon disappear.

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#### VENEZUELA'S MINISTER OF FOREIGN RELATIONS.

Dr. FRANCISCO GONZÁLEZ GUINÁN, the present Minister of Foreign Relations of the United States of Venezuela, was born in the city of Valencia of that Republic on October 3, 1841. He received his preparatory and academic instruction in the College of Carabobo, commencing the study of jurisprudence in that institution and completing his legal education in the University of Caracas. At an early age he engaged in politics, journalism, and in the government of his country. He has been Governor of the State of Carabobo, a member and chairman of both legislative houses, Federal Attorney, Minister of Interior, of Fomento, of Public Instruction, and is now Minister of Foreign Relations of the Republic.



DR. FRANCISCO GONZALEZ GUINAN,  
Minister of Foreign Affairs of Venezuela.

## THE NEXT INTERNATIONAL SANITARY CONFERENCE.

The Minister of Costa Rica, Mr. JOAQUIN BERNARDO CALVO, kindly informs the Bureau that his Government has issued invitations to all the Governments of the American Republics to participate in the Fourth International Sanitary Conference, which will be held in San Jose, Costa Rica, from December 25, 1909, to January 2, 1910. In view of the attractions of the city of San Jose, which is one of the most healthful and beautiful in all Latin America, and of the proverbial hospitality of the Costa Rican Government and people, there is no doubt that this conference will be a success. It certainly should be largely attended by representative medical men from the United States and other Republics.

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 MEXICAN DIPLOMA FOR AN AMERICAN SCIENTIST.

The Mexican Society of Geography and Statistics, a well-known scientific organization of Mexico, has presented Dr. L. S. ROWE, of the University of Pennsylvania, with a diploma of honorary membership. The presentation took place at a session which was held Thursday, July 22, 1909, in the City of Mexico. Lic. FÉLIX ROMERO, President of the Supreme Court of Mexico, who is also president of the society, bestowed the diploma in the presence of a representative gathering of the society. An appropriate address of acknowledgment was made by Doctor ROWE, who is spending some time in the City of Mexico for the purpose of securing closer cooperation between the scientific and literary societies of that country and the United States.

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 THE PROSPECT FOR AN INTERNATIONAL PAN-AMERICAN BANK.

Among the many efforts which the International Bureau has been making during the last two years to develop closer trade relations between North and South America is that of establishing in New York City a great international bank, which will have its headquarters there, with branches in the principal cities of Latin America. The Director personally has given much attention to this undertaking, and has repeatedly urged the large financial interests of the United States to consider the advisability of the plan. He has pointed out the surprising fact that there is not a single bank south of Panama which is controlled or directed by United States capital, but that in nearly every important city and port of that part of the world are banks controlled by the capital of the principal European countries. The Director does not take the position that a United States bank should be organized for the purpose of antagonizing European banks or attempting to drive them out of the field, but simply to get the share of business to which it is entitled. There is an abundance of room in Latin America for all countries to advance their legitimate



business interests with worthy rivalry and without harmful antagonism. This programme for an international bank is now being carefully discussed by the principal financial interests of New York, and it is not improbable that an actual organization will be perfected early in the fall. As now outlined, as far as South America proper is concerned, there would be a central bank in New York City, with branches in Rio de Janeiro, Montevideo, Buenos Aires, Santiago, or Valparaiso, and Lima, with agencies possibly at such points as Para, São Paulo, Rosario, La Paz, Guayaquil, Bogota, and Caracas. Corresponding branches and agencies would be established also in the Central American and Caribbean countries.

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#### THE MOVEMENT FOR IMPROVED STEAMSHIP SERVICE.

All indications now point to a vigorous campaign being made before the Congress of the United States at its session next winter for government cooperation in improving the mail steamship communication between the United States and Latin American Republics. There is no question that sentiment is growing all over the United States in favor of ending the conditions which now exist. The issue of subvention in some respects is secondary; the real problem is that of securing the necessary steamship service—that is, vessels suitable for carrying mails, passengers, and express requiring immediate delivery—which will make the journey at a reasonably fast speed, with accommodations for passengers, and thus lead to the development of travel. In view of the international character of the Bureau, an institution supported by all the American Republics, it is not for it to say that it favors alone ships flying the United States flag, but it does take the position that there must be improved facilities if commerce and communication between the American Republics are to be developed in accordance with the best interests of all the countries concerned. The United States can not expect South Americans to visit it, nor can South America expect travelers from the United States to go there, unless there are fast and commodious steamers to carry those who make the journey. It is just as illogical to expect commerce to be developed between two countries by slow-going freight vessels as it is to expect that commerce would be developed on land between cities with only slow freight trains communicating them. There must be fast steamers to carry mails and passengers over the seas, as there must be fast express trains to do the same work on land.

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#### A RAILROAD PRESIDENT'S INTEREST IN LATIN AMERICA.

The International Bureau is pleased to note the interest President W. W. FINLEY of the great Southern Railroad Company of the United States is taking in the development of closer relations of trade between the

United States and the Republics to the south of it. He realizes fully the truth of the contention of the International Bureau, which it has advanced for several years, that the Southern States of the United States are more concerned than any other section in promoting commerce with the southern Republics, and in gaining the advantages which may come from the construction of the Panama Canal. From time to time President FINLEY issues circular letters which appear in the newspapers published in the cities along the lines of his company, reaching from Washington all the way to New Orleans. Recently he has published an exceptionally interesting circular, pointing out the necessity of developing improved steamship communication between the southern ports of the United States and the Latin American countries in order that the products of these two sections of the world may be properly exchanged. In connection with this circular he has published an instructive chart, showing the steamship lines from the United States and Europe to the southern and western ports of South America. From this it can be noted that from New York to Bahia, Rio de Janeiro, and Santos there are 6 steamers per month, in contrast to 14 steamers from European ports to the same points; 7 steamers per month from New York to the River Plate, in contrast to 18 steamers from European ports; 3 or 4 steamers per month from New York to the west coast of South America, against 3 steamers per month from European ports to that section. The chart, however, does not point out that among these steamers coming from Europe are a large number of vessels containing the highest class passenger accommodations, whereas there is practically only one line out of New York that gives this kind of facilities.

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#### CONSUL-GENERAL OF PERU IN NEW YORK.

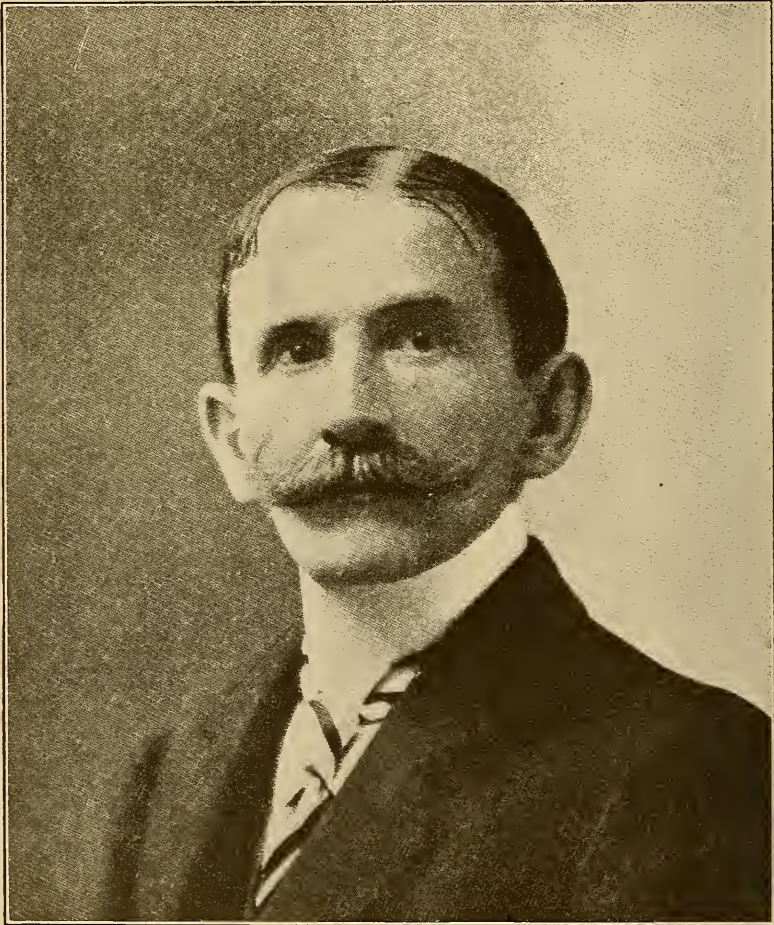
EDUARDO HIGGINSON, Consul-General of Peru in New York, was born in Callao, Peru, on March 5, 1862. He was educated at the Institute of Lima, one of the foremost colleges of the country, and after graduating, served in the war between Peru and Chile, 1879-1881, attaining the rank of lieutenant in the National Guard. In 1893 Mr. HIGGINSON entered the Consular Service, his first appointment being that of Consular Agent at London, England. Up to the year 1900, he had been advanced first to the Chancellorship and later to the post of Vice-Consul, when he was sent to take a similar position at Liverpool. In 1901 he was made Consul at Southampton, where, for the following two years, his work not only in England but throughout Europe was the means of greatly increasing trade and strengthening relations between that Continent and Peru. The promotion of Mr. HIGGINSON to his present position was made in 1903, from which time to the present he has carried on an active campaign to promote the financial, industrial, and commercial relations between the United States and Peru.



SEÑOR DON EDUARDO HIGGINSON,  
Consul-General of Peru to the United States at New York.

## DEATH OF EMILIO MITRE.

The distinguished Argentine statesman, Señor EMILIO MITRE, who died in May of this year, had gained renown in many fields of endeavor. Not only was he a civil engineer of more than ordinary endowments, but during a brilliant political career had earned distinction by his great talent and patriotic integrity. In recent years his name has been associated with the railway bill which bears his name and which had so



SEÑOR DON EMILIO MITRE.

important a bearing upon the betterment of communication facilities in the Argentine Republic. At the time of his death he was a member of the National Congress, where his public utterances always commanded attention, and also editor of "*La Nación*," one of the leading newspapers of the continent. Señor MITRE was a worthy son of one of the famous men of Latin America, Gen. BARTOLOME MITRE.

## LATIN AMERICA AT WESTERN GATHERINGS.

During this month there are two important gatherings in the United States where Latin America, in one phase or another, will be a leading subject of discussion. There will assemble in Spokane, in the State of Washington, between the 8th and 14th of August, the National Irrigation Congress, to which most foreign countries have been invited to send delegates. Only a few have availed themselves of this invitation, but arrangements have been made through the International Bureau so that the Director and possibly one or two of the Latin-American Ministers will be present to describe what is being done in irrigation throughout the southern Republics. There will also be a discussion of what benefits will come to the irrigated country of the West from the construction of the Panama Canal. Following the Irrigation Congress at Spokane will be the great annual Trans-Mississippi Congress, which meets this year in Denver, Colorado. The Director and the Latin-American Ambassadors and Ministers have been invited to attend and discuss the development of close relations of commerce and friendship between Latin America and the United States, with especial reference to the trans-Mississippi section. The general announcement of the Trans-Mississippi Congress states that particular attention will be given to Pan-American affairs and to the consideration of possible benefits that may come from the Panama Canal. While it will be very difficult for many of the Latin-American diplomats to attend, on account of their absence from the country or their spending the hot season at the seashore and mountains, it is hoped that a sufficient number will be present to give character to the discussions that will take place.

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PROGRESS ON THE NEW HOME OF THE BUREAU.

Although some unavoidable conditions have delayed the work on the new building of the International Bureau, the general construction is going ahead in a way to emphasize the beauty and utility of the edifice as it will appear when it is completed. Being now entirely roofed in, with all of the external marble in place and the carving and sculpture work begun, it plainly shows its imposing and handsome, but unconventional, style of architecture. It will be in many respects the unique building of Washington. While it is not as large or as costly as many others, it will be altogether different from the average office building of the Capital. It will have a character entirely its own, the strength of which will be enhanced by its excellent location at the corner of Potomac Park and the White Lot. It will please everybody concerned with the welfare of the Bureau to know that Mr. ROOT, although no longer Secretary of State, shows the deepest interest as Senator in the Bureau

and in the new building. The Senator was largely responsible for calling the attention of Mr. CARNEGIE to the work and scope of the Bureau, so that he gave \$750,000 toward its construction. It is fortunate that the institution holds the interest of such a powerful friend as Mr. ROOT. The Director hopes that the new building will be ready for occupancy not later than the 1st of November.

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THE PAN-AMERICAN EXHIBIT AT THE SEATTLE EXPOSITION.

The exhibit of the International Bureau at the Alaska-Yukon-Pacific Exposition in Seattle, Washington, is attracting a great deal of attention on the Pacific coast. It is the first opportunity that the people of that section have had to see at close hand what the Bureau is accomplishing in a practical way for the promotion of Pan-American commerce and comity. The exhibit is in charge of WILLIAM J. KOLB, of the Bureau staff, assisted by ALFRED E. HART. Aside from describing the exhibit and explaining the plan and scope of the Bureau carefully to callers, they are delivering a series of lectures at the Exposition and in neighboring cities upon the Latin-American Republics, thus doing a good educational work. It is possible that a Pan-American day may be celebrated at the Exposition some time in August, but this will depend upon the presence at the Exposition of one or more of the Latin-American Ambassadors and Ministers.

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A NEW SOUTHERN ROUTE FOR TRAVELERS.

Mr. HENRI L. GUEYDAN, of New Orleans, who takes a great interest in everything pertaining to Latin America, has submitted to the International Bureau a suggestion for a proposed trip for travelers which would prove interesting and could be comfortably made during the summer months. It is as follows: "Start from New Orleans; touch at Belize; disembark at Puerto Barrios; take in the Quirigua ruins; climb by rail to Guatemala City; take a trip by coach to Antigua to see its 45 churches in ruins, its fine baths (Antigua lies in probably the most beautiful and most salubrious valley in the world, around which three towering volcanoes stand guard—in 1773 it had 70,000 inhabitants and was therefore more populous at that time than our own New York City); ascend the Agua Volcano; take coach drive to Palin, where railroad connection could be made for Escuintla, Mazatenango, Champerico; here go by steamer to Salina Cruz, thence by rail across the Isthmus of Tehuantepec to Coatzacoalcos, thence by steamer to Veracruz, and thence by rail to Mexico City and the United States."

## ARGENTINE TRADE GAINS.

Every classification of exports shipped from the Argentine Republic during the first quarter of 1909 shows increased valuations, and in the total of \$140,231,340 a gain of nearly \$25,000,000 is reported as compared with the corresponding quarter of the preceding year. These figures are the more remarkable inasmuch as the export volume for 1908 was unusually great, and present indications point to an even greater amount for the present year. In imports, also, the quarterly returns show a healthy increase, so that it is reasonable to predict that Argentine prosperity will continue on the ascending scale during 1909.

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## CONSUL-GENERAL OF BRAZIL IN THE UNITED STATES.

JOSÉ JOAQUIM GOMES DOS SANTOS was born in the city of São Salvador, capital of the State of Bahia, where he received his education and after completing his studies entered the service of his country. His diplomatic career covers a period of thirty-five years, during which time he served in the Argentine Republic, Uruguay, Spain, England, and Chile, whence he came to the United States in December, 1906, as Consul-General of Brazil, with headquarters at New York.

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## BRAZILIAN INDUSTRIES.

With a total capitalization of nearly \$200,000,000, Brazilian manufacturing industries have an annual output valued at nearly \$222,500,000. Forty per cent of the capital is invested in textile mills, the output being of good quality. Flour milling is also an important branch of industrial development, and many new enterprises tending to the adequate development of national resources are the recipients of government subsidies.

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## CHILEAN RAILWAYS.

In connection with the awarding of the contract for the Arica-La Paz Railway extension, it is of interest to note that the United States Consul at Valparaiso, Mr. ALFRED A. WINSLOW, reports that the Government is pushing work on the longitudinal line to the north of that city. A force of 1,700 men is at work and draft automobiles capable of handling 10 cars each have been employed with great success.

## COSTA RICA'S PARTICIPATION IN HUDSON RIVER TERCENTENARY.

The Consul-General of Costa Rica in New York, Señor Don JUAN J. ULLOA, has been formally designated by his Government as its representative on the occasion of the celebration of the three hundredth anniversary of the discovery of the Hudson River and the centenary of the successful navigation of the stream by ROBERT FULTON. As an indication of the desire of Costa Rica to actively share in the event, the Secretary of State of the Republic forwarded to the Consul-General several bags of the coffee for which the country is renowned that it might be used at the different banquets to be given during the Hudson-Fulton celebration.

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 BUREAU OF INFORMATION IN CUBA.

With the beginning of the present fiscal year the Republic of Cuba established a bureau of information, President GOMEZ appointing LEON J. CANOVA, an American newspaper man, who has resided in Cuba eleven years and has a wide acquaintance with the island, as its director.

Persons wishing information of any nature concerning Cuba can obtain same, free of charge, by writing to LEON J. CANOVA, Utility and Information Bureau, Department of Agriculture, Commerce and Labor, Havana, Cuba.

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 DR. FELICÍSIMO LÓPEZ, CONSUL-GENERAL OF ECUADOR IN NEW YORK.

Dr. FELICÍSIMO LÓPEZ, Consul-General of Ecuador in New York, was born in Quito, capital of the Republic, in 1847. In 1872 he was graduated as doctor in medicine from the Central University of Quito, and a short time thereafter went to the Province of Manabi where he practiced his profession for many years. In 1895, when the Liberal party came into power, he was appointed collector of revenues in the Province of Guayas. He attended the convention of 1896 as representative of the Province of Manabi. In 1900 he was appointed Consul-General of Ecuador in New York, and a short time afterwards was made Minister Resident of Ecuador near the Government of Venezuela. In 1901 he was Secretary of Fomento in Quito, and in 1906 was appointed the second time Consul-General of Ecuador in New York, which post he still holds. Doctor LÓPEZ is the author of several pamphlets and essays which have been widely read, and for some years was the editor of the "*Diario de Avisos.*" The latest works of the Consul-General of Ecuador in New York are an Atlas of Ecuador prepared for use in the schools of the Republic, and a work entitled "*Virutas.*"





SEÑOR DON FELICISIMO LOPEZ,  
Consul-General of Ecuador to the United States at New York.

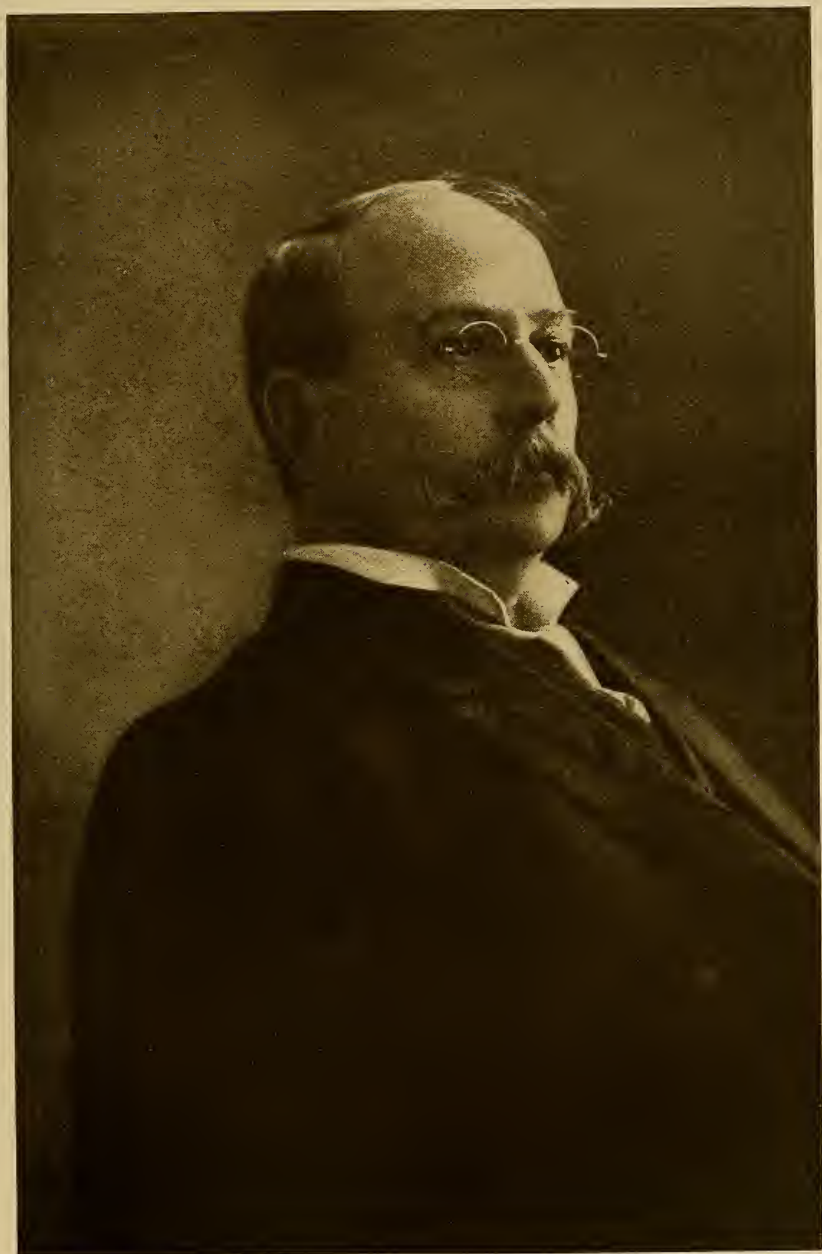
## PRIZE FUND FOR CACAO TREATISE.

“Tropical Life” of London has under way the raising of a prize fund to be awarded to the writer of the best treatise on the fermentation of cacao. During the last twenty years several improvements have been introduced in the systems employed in drying cacao, but as regards fermentation it is stated that planters have much to learn. With the purpose of augmenting the fund of knowledge in this branch of preparing chocolate for the market, the magazine has headed the list of subscribers for a prize fund, and numerous other interested persons have also subscribed in various amounts. The terms of the competition have not as yet been arranged for, but as Latin America produces the bulk of the world’s supply of cacao the subject is a matter of interest. Among producing countries Brazil ranks first, followed by Ecuador, while various other countries of South and Central America occupy relatively high positions.

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 CONSUL OF THE UNITED STATES OF AMERICA AT MONTEVIDEO, URUGUAY.

FREDERIC WEBSTER GODING, diplomat and inventor, was born at Hyde Park, Massachusetts, May 9, 1858. His ancestry on both sides dates from the Pilgrim Fathers, among the noted connections being Hon. SALMON P. CHASE, Secretary of the Treasury in Lincoln’s Cabinet and later Chief Justice of the Supreme Court of the United States. Mr. GODING acquired his early education in the public schools of Chicago, and later entered the medical department of the Northwestern University, where he earned the degree of M. D. in 1882, having previously taught in the public schools of Illinois. He practiced medicine until 1898, during which time he studied for and received the degree of Ph. D. from Bethel College. He was a delegate to the Republican state conventions of Illinois in 1886 and 1896, served as delegate to various county and congressional conventions, and was an active member of the Lasalle County (Illinois) Republican central committee for eight years. He was mayor of Rutland, Illinois, from 1887 to 1897. During 1885–86 he filled the chair of natural science in Loudon College, Tennessee. He was assistant to the state entomologist of Illinois in 1884–85, and held a similar position in Tennessee. In 1898 he was appointed Consul to the northern half of New South Wales and Queensland, Australia, where he was also in charge of the affairs of Panama and Cuba. He was appointed on August 15, 1907, to his present position as Consul at Montevideo. Doctor GODING, while residing in Australia, prepared many reports upon the commerce and industry of that country which have been instrumental in increasing trade between the two continents. He has also published many papers on biology and entomology, and in 1890 discovered the secret of tempering copper, as well as devising, in 1897, a means for welding copper with steel which has been thoroughly tested by the United States Government. Since he took charge of the consulate at Montevideo he has prepared many reports on the commerce, industries, and social conditions of Uruguay which have been well received by the business men of that Republic.



DR. FREDERIC W. GODING,  
Consul of the United States of America at Montevideo, Uruguay.

## HISPANIC-AMERICAN CLUB AT CORNELL.

The Director of the International Bureau has been advised of his election as a member of the Hispanic-American Club of Cornell University. This club aims to promote such friendly relations between the Spanish-American students of the university that on their return to their native lands they may be stimulated to maintain the cordial sympathies of their youth and to further develop a Pan-American spirit. At an oratorical contest held near the close of the scholastic year, RUDOLFO ROTH, an Argentine member of the club, chose as the subject of his address "The United States and South America."

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## CONSUL OF UNITED STATES OF AMERICA AT PUERTO PLATA, DOMINICAN REPUBLIC.

RALPH JAMES TOTTEN was born in Nashville, Tennessee, educated in the Montgomery Bell Academy and the University of Nashville, and after his graduation employed for several years by the Plant Line at Tampa, Florida. He returned to Nashville in 1897 and was commissioned first lieutenant of the Tennessee regiment sent to the Philippines during the Spanish-American war. He was later designated by President ROOSEVELT to take the examination for second lieutenant in the regular army, but failed to pass the physical test on a technicality. On July 1, 1908, Mr. TOTTEN was appointed Consul at Puerto Plata, which position he still holds.

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## TWO MONTHS' POSTPONEMENT OF THE PAN-AMERICAN CONFERENCE.

As a result of views exchanged between the Foreign Minister of the Argentine Republic and Hon. CHARLES H. SHERRILL, United States Minister, the date for the opening of the Fourth Pan-American Conference at Buenos Aires in 1910 has been changed from May 10 to July 9. Minister SHERRILL was impressed with the advisability of setting a little later date than the one in May because it would be very difficult for the delegates of the United States to leave in time for a meeting in May. The possibility of getting representative men to serve on the delegation is much better on account of their being able to sail from the United States practically at the beginning of summer than if it was held so that they would be obliged to leave early in the spring when Congress is still in session and business matters are in full swing. It is the desire, moreover, of Minister SHERRILL, who is imbued with the excellent idea of bringing the United States and Argentina closer together, of getting prominent business men of the United States and a considerable quota of travelers, who generally go to Europe and the Orient, to visit Buenos Aires at the time of the Pan-American Conference and when the Argentine Centennial Exposition is open.



RALPH JAMES TOTTEN,  
Consul of the United States of America at Puerto Plata, Dominican Republic.

# BOOK NOTES

Mexico, by C. REGINALD ENOCK, F. R. G. S., with an introduction by MARTIN HUME, published by T. Fisher Unwin (London), imported by Charles Scribner's Sons (New York). \$3. This book, the third in the South American series being issued through the house of T. Fisher Unwin and edited by Mr. MARTIN HUME, reviews the country as a whole in the opening "reconnaissance" and then, chapter by chapter, narrates the history of its development from the time of the Toltecs and Aztecs to the present state of modern civilization. While no new facts are brought to light in the course of the narration, a readable and interesting volume is presented to the public. Of special importance are the sections devoted to present-day life in the great Republic. The capital is described as a handsome and attractive city with fine institutions and public buildings; extensive boulevards and parks and whose characteristic life may be classified as Americo-Parisian. In contrast with these modern surroundings, the remarkable ruins of a former civilization as embodied in temples, palaces, etc., showing not only skill in construction but also artistic taste of the highest order, are scattered throughout the country. The accounts of the ancient peoples whose handiwork is represented by these ruins are by no means the least valuable portions of the volume. The fall of the Lake City, the capital of Montezuma; the régime of the Spanish viceroys when native industries were subordinated to Spanish interests; the monarchical period; the crowning and execution of MAXIMILIAN and the phenomenal rise of PORFIRIO DIAZ are detailed with a spirit of appreciative veracity. Of President DIAZ, Mr. ENOCK is naturally laudatory in the extreme. Of him and his policies he states:

The strong man appeared in the very antithesis of monarchy—PORFIRIO DIAZ; and the autocratic régime, almost monarchical except in name—in the military-civil government which followed.

\* \* \* A certain main and important condition presented itself to the comprehension of DIAZ early in his administration, and compliance with it has been one of the principal contributing causes to his success. This was the necessity for bettering the means of communication of the country. Roads, railways, and telegraphs multiplied accordingly under the fostering work of the DIAZ governments, mainly by inducements held out to foreign capitalists; partly by the expenditure of national funds. When troops and messages can be moved and flashed about rapidly *pronunciamentos* tend to diminish. \* \* \* The man and the hour arrived together and DIAZ deserves to rank among the historic statesmen of the world.

Of the great mineral industry of the Republic it is stated that it is not possible to determine when man began to dig for the earth's treasures in Mexico. It has been affirmed that the method of recov-

ering gold by amalgamation with quicksilver must have been known to the Maya civilization which preceded that of the Aztecs. This is adduced from the fact that a vessel containing quicksilver was found in the celebrated ruins of Palenque in Chiapas. The present pre-eminent status of the country as a silver producer and its advancing value in gold and copper mining are well-established matters and the fullest exploitation for all natural sources of wealth is assured under existing conditions. The established credit and prosperity of the country has enabled the Government to move with a certain spirit of independence of late years as regards foreign investors, it being regarded as a sound economic policy that greater benefits for the nation should result from the development of native industries. In brief, the commercial and industrial life of Mexico has entered upon a course whose present surroundings seem favorable and well founded.

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“*Farmacopea de los Estados Unidos de América*” (Pharmacopœa of the United States of America), eighth decennial revision, Spanish translation. The edition in Spanish of the official “Pharmacopœa of the United States,” marks a real epoch in the intimacy between the United States and Latin America. It shows in the first place the efforts being made to extend a knowledge of our scientific progress, and in the second place the growing demand among the Republics of America for an authority which will interpret for them the stand taken by American pharmacology and medicine of the day. This translation just completed by Prof. JOSÉ GUILLERMO DÍAZ, of the University of Havana, Cuba, assisted by Dr. PLÁCIDO BIOSCA, was authorized by the board of trustees of the United States Pharmacopœial Convention, and is, therefore, official in every sense of the word. That it will be of great value to all practitioners of medicine and pharmacy wherever Spanish is spoken, and there is a desire to follow American instead of European methods, can not be doubted.

The book is an octavo volume of 715 pages. The order followed is that of the original, but where changes were necessitated by differences of spelling or nomenclature between Spanish and English, these variations have been clearly marked. Under each preparation or drug the Latin designation is given first, then the Spanish, then the English; thus making the text easy of reference to all students alike. References to the American edition are preserved, and in the index both Spanish and English terms are entered. This translation is even more advanced than the original, because it has been possible to include therein the changes made necessary by the national food and drugs act passed June 30, 1906. For the excellence of the work and the genuine ambition manifested by both English and Spanish editors to make it a reflex of modern pharmacology,

the BULLETIN takes pleasure in calling attention to it. The publishers, American Druggist Publishing Company, New York, and the secretary of the board of trustees of the United States Pharmacopœial Convention (who can be addressed at 1841 Summit avenue, Washington, D. C.), have kindly placed a limited number of copies at the disposal of the Bureau. It may be purchased through the usual trade channels for \$5 in cloth, \$5.50 in sheep, or \$6 in flexible leather or interleaved and bound in cloth.

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Under the title "*Excursiones Presidenciales*," Gen. P. A. PEDRAZA, Commandant of the National Constabulary (*Gendarmería Nacional*) of Colombia, has compiled the daily record of the tours made by President RAFAEL REYES through the Atlantic Department of Antioquia in the spring and autumn months of 1908. The purpose of these expeditions was to make a personal report on the natural resources of the sections visited and to promote such development thereof as might be found feasible. The banana interests were especially investigated and the wonderful availability of Colombian soil for the commercial production of tropical fruits and plants thoroughly demonstrated. Prior to his departure from Bogota, President REYES delivered a lecture before an assembly of distinguished fellow-countrymen and foreigners, outlining the economic conditions of the Republic and setting forth in detail the desires of the Government, extracts from which appeared in the BULLETIN for June, 1908. On his return a similar event took place, as reported in the BULLETIN for August, the two papers forming a valuable résumé of Colombian affairs. In the present volume are incorporated not only the two addresses in reference and the various official reports in connection, but also a complete account of the happenings of the journeys, with abundant and beautiful photographs of the scenes, industrial plants, inhabitants, and localities of the Department. Reproductions of the many public edifices in the cities of Cartagena, Medellin, etc., and the popular demonstrations held therein in honor of the visiting Chief Executive are of peculiar interest. The railway report which closes the volume covers the various improvements made and projected in communication facilities, and the journey itself was a demonstration of the progress made of late in this important branch of national growth.

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A recent act of the Government of the Argentine Republic authorized the establishment of a publication in which should be given not only the laws, regulations, legal decisions, etc., of the fiscal organization, but also various references, illustrations, and precedents which



might tend to better popular understanding of the financial procedures of the State. The first number of this *BOLETÍN DE HACIENDA* has just been received by the library of the Bureau, and bears the date of May 1, 1909. It is issued from Buenos Aires, has 74 pages almost imperial octavo, and is divided into four sections: Explanatory, administrative, statistical, and illustrative (*doctrinaria, administrativa, estadística, información extranjera*). The articles bear the titles: "The national coasting trade" (*El cabotaje nacional*); "Free imports to railways" (*La franquicia aduanera á los ferrocarriles*); "Smuggling by post" (*El contrabando por correo*); "New organization of the Minister of Treasury" (*Neueva organización del Ministro de Hacienda*); "Government balances in the conversion office and national loan bank" (*Balances del banco de la nación, caja de conversión y banco hipotecario nacional*); "Paper money of Chile" (*El papel moneda en Chile*). As official or semiofficial announcements this and subsequent numbers of the *BOLETÍN DE HACIENDA* will be of great value to those interested in economic conditions in the Argentine Republic.

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"*Evolução do Direito Internacional.*" Treatise by JOÃO CABRAL. Published by the "*Jornal do Commercio*," of Rio de Janeiro, 1908.

The purpose of the volume, as the author states in the prefatory note, is to acquaint Brazilian students with the progress which has recently been made in international law and justice. In the first part of the work the author gives the opinions of the different schools as to the foundation of international law and traces its development from ancient to modern times. A careful analysis is made of the work of the Pan-American conferences and the two Hague conferences. The second part of the work contains the texts of the conventions and resolutions adopted by the Third Pan-American Conference, as well as those formulated by the Second Hague Conference.

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No. 677 of the miscellaneous series of "Diplomatic and Consular Reports," published by the British Foreign Office, covers the "Mines and mineral resources of Colombia," as reported on by Mr. FRANCIS STRANGE, the British Minister at Bogota. Each of the larger mining companies is treated in turn, so that exhaustive information is available for those interested in the subject. The gold and silver mines of Colombia are of well-established value and in the old Spanish days they were worked by slave labor and yielded large product. At present transport is the main difficulty to be met in the adequate exploitation of the mines, as the mining laws are liberal and Colombians are well disposed toward foreigners.

Of great value to the merchant of Latin America is the "Spanish-American Directory and Buyers' Guide of New York," recently issued by Prof. ACEVADO, of Colombia University. \$2. Published in Spanish, Portuguese, and English it is especially useful to the Spanish-American traveler. It contains the names and addresses of persons having Spanish interests and a list of the most important commercial and manufacturing houses of the country having business connections with import and export trade between the United States and Latin countries. The volume also contains a general description of the city of New York, its means of communication, places of amusement, etc., with a vocabulary of English and Spanish phrases most necessary to the traveler.

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Don FEDERICO SÁENZ DE TEJADA, one of the leading international lawyers of Guatemala, has published in pamphlet form a lecture given by him not long ago before the faculty of law and notariat of Guatemala, the subject of the lecture being "May a state exact from another, *manu militari*, the payment of debts due to said state or to its citizens?" Mr. SÁENZ DE TEJADA shows in his work his thorough mastery of the subject-matter, which makes this pamphlet a valuable addition to any library of international law.

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"*Riquezas Mineraes do Estado da Bahia*," by ANTONIO JOAQUIN DE SOUZA CARNEIRO, civil engineer and professor of mineralogy, geology, and paleontology in the Polytechnic School of Bahia. Published by Reis & Co., of Bahia; 1908. This is a small volume giving the number, classification, and geographical distribution of mines in the State of Bahia, with numerous maps and diagrams. The work is supplemented by the mining law of the State of Bahia and a map of the State showing the principal railways.

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A pamphlet of 19 pages on the "Cultivation of Henequen" (*Apuntes sobre el Cultivo y la Explotación del Henequen*), by JOSÉ I. RIVAS FONT, of Merida, Yucatan, has just been received in the library of the Bureau. While making no claim that his remarks should take the place of a scientific study from the agriculturist's point of view, yet the author modestly states that his thirty years of practical experience in the actual field has given him certain definite knowledge which he hopes he may pass on to friendly readers and planters.

The approaching centennial of the general movement for independence throughout Latin America renders of peculiar interest all data bearing upon the lives of the promoters of the cause of liberty. From the Colombian press (Bogota-*Imprenta Moderna*) comes a succinct but thoroughly adequate sketch of the career of Gen. SIMON BOLIVAR, "the Liberator," prepared by SOLEDAD ACOSTA DE SAMPER.

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Under the title "*Estudios Lingüísticos*" the original tongues of the natives of certain sections of Guatemala and Mexico are discussed by Dr. EUSTORJIO CALDERON. The subject-matter originally appeared in "*Repertorio Salvadoreño*," from whose pages, with slight alterations, the present text is reproduced.



## WHAT IS IN THE MAGAZINES

"The Germans in Argentina" is the title of a series of articles (in German) which the author, HERMANN SCHROFF of Buenos Aires, has recently contributed to "*Sud- und Mittel-Amerika*," the last chapter appearing in the number of that semimonthly publication for June 15, 1909. In addition to the interesting description of the country conveying a distinctive local color to the sketches, Herr SCHROFF gives a clear understanding of the accomplishments of the Germans in Argentine commercial life, in the industries, technical arts, and professions. Undoubtedly, however, the salient feature of the sketches is the emphasis he lays upon the opportunities in Argentina. His statements can be studied and applied not only by Germans, but also by every class of colonist or settler hoping to better conditions by migrating to Argentina. Herr SCHROFF, while using plain terms and denouncing the idler who thinks that in the region of the River Plate fortunes can be made without work, is nevertheless emphatic in declaring that for the man who will throw aside his old world habits and prejudices, begin at the bottom and have material success his chief goal, the country is full of opportunity, and offers as glowing a future for the "hustler" as the United States of North America. Several illustrations are given of Germans who went penniless into the "camp" determined to win and did win.

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This "*Sud- und Mittel-Amerika*" has been particularly rich, within the last few months, in clear cut articles of the above character, dealing not only with commercial conditions in Latin America, but with descriptions of the resources of many of the Republics there. Herr O. SPERBER has contributed a connected series of this nature, beginning in the number for August 31, 1908, and continued through that for April 29, 1909. The author writes from New York, and is able therefore to combine with the information he gives for Germans certain experiences which aid them in estimating the future development of Latin America under North America influences. They are on this account of peculiar value to American readers. The first article (August 31, 1908) examines the "Rubber resources of South America," with special reference to the newer areas for rubber, and to the present and future means of transport. The second (September 30, 1908), "Gold resources of South America," is a presentation of the production of that metal from earliest times, with an enthusiastic statement that in Peru, Bolivia, Colombia, and Ecuador there

is still abundant gold in sight to meet the world's demand for a long time to come, and that a careful study of local conditions is all that is needed to make the industry advance very rapidly. "Peru of today" is the third article (January 30, 1909), containing a general résumé of agricultural, industrial, and social conditions in that Republic. In the number for March 15, 1909, "Venezuela" is treated with the same careful pen, and there is besides a well illustrated description of the "Weaving and woven fabrics of the native Indians of Spanish America." This series may be said to have its conclusion in an article (February 15, 1909) headed "Advice for the exporter to Latin America." It is interesting to note that the author cautions the Germans to beware of the same errors into which Americans so frequently fall, namely, insecure packing, unwillingness to recognize the importance of meeting the tastes of the consumer instead of trying to thrust upon him the just-as-good article of the foreigner, and necessity of conforming with credit arrangements that rule among the merchants of Latin America.

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An additional contribution from the above author, Herr O. SPERBER, appears in the "*Deutsche Export-Revue*" (Berlin) for February 10, 1909. It is a suggestion that traveling salesmen might materially extend their sales by giving demonstrations of manufacturing and use of all kinds of goods on the cinematograph. Any one familiar with the extent to which this instrument has penetrated into the outskirts of civilization and the childlike pleasure with which all classes enjoy its pictures will be convinced of the value of the advice.

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"The advanced position that Mexico has taken in many economic matters is one of the most encouraging facts concerning her future." It is thus that CHARLES F. SPEARE writing of the finances of Mexico in the June number of the "Review of Reviews" sums up Mexican policies. The whole bent of the workers and thinkers who formulate the nation's policies is toward increasing native production so as to cheapen the food supply, to provide a liberal surplus for export, and to so guide public utilities that they may be the efficient servants of the people. In lauding the enlightened administration of President DIAZ and the marvelous ability of his finance minister, Señor LIMANTOUR, Mr. SPEARE states that "no commercial conquest, however, that the DIAZ administration has made, compared with the control obtained over the most important railroad lines in the Republic. The story of this conquest is one of the most fascinating and romantic in the history of finance. \* \* \* By what almost

seems a process of financial legerdemain the Government secured control of this vast system with an annual earning capacity of \$30,000,000 and an authorized capitalization of \$650,000,000 at practically no outlay of money." The new commercial life of Mexico followed closely upon the adoption of the gold standard in 1904 and at present the bonds of the Government command highest respect in the markets of the world. Nearly all her obligations are payable in gold and fluctuations of exchange are no longer occasions of dismay to the foreign merchant or trader in the country.

In the section discussing the leading articles of the month, comments on and extracts from the article on "Wireless telegraphy in the American Republics," written by RUSSELL HASTINGS MILLWARD for the April number of the BULLETIN OF THE INTERNATIONAL UNION OF THE AMERICAN REPUBLICS find extended space. The gradual emancipation of Latin-American authors from European influences as noted by SEÑOR MANUEL UGARTE in "*Nuestro tiempo*," of Madrid also forms the subject of literary comment.

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The interest excited by the achievements of Lieutenant SHACKLETON in antarctic regions has kindled a desire to know more of previous expeditions for the discovery of the South Pole. Consequently "Farthest south," as the article on the subject is called, contributed by WILLIAM S. BRUCE to "The World To-Day" for July, meets a public demand for information. Mr. BRUCE acted as naturalist with the Dundee antarctic expedition in 1892-93; was zoologist with the Jackson-Harmsworth expedition in 1896-97, and, in addition to north polar experiences, was the leader of the Scottish national antarctic expedition in 1902, and subsequently, in 1906-7, explored and surveyed Charles Foreland and Spitzbergen. The Dundee expedition was first in the field when the renewal of interest in antarctic exploration began in 1892, four ships being dispatched on a voyage of discovery. Norway, stimulated by Scotland's enterprise also sent a vessel. The observations made during this voyage have served as a basis of recent antarctic meteorology. In 1897 Belgium fitted out an expedition, and the explorers, a thoroughly trained volunteer staff, spent the winter in the antarctic regions, being the first human beings to furnish a concrete account of the climate and weather for a period extending over more than a year. With the beginning of a new century the Swedish antarctic expedition in the *Antarctic* and English in the *Discovery*, a Scottish in the *Scotia*, and a German in the *Gauss*, sailed for the South Pole. The writer of the article was leader of the *Scotia* party, special work being accomplished in oceanography. The results of the expedition were the richest biological collection ever made in antarctic seas, a complete revolutionizing of the map of

the South Atlantic Ocean and Weddell Seas, the fixing of the antarctic continent 700 miles farther north than it was supposed to exist, and valuable contributions to meteorology and physics. Doctor CHARCOT, the leader of the French expedition of 1908, is still on the scene of his labors.

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Judged by so distinguished an authority as Maj. Gen. A. W. GREELY, U. S. Army, and commander of the United States arctic expedition of 1881-1884, the discoveries made by Lieut. ERNEST SHACKLETON in the antarctic explorations of 1908-9 are the most important ever made within the Antarctic Circle. The comments of General GREELY concerning the expedition which determined the location of the magnetic pole, largely increased the known area of the southern continent, virtually reached the South Pole, and added materially to general knowledge of those regions, are published under the title "Shackleton and the South Pole," in the "Century Magazine" for July. Concerning the hitherto practically unknown lands surrounding the pole, he writes:

Strange have been the historical vicissitudes of the antarctic continent. A figment of geographic fancy evolved by ORTELIUS in 1570, the great Captain COOK thought that he had demolished it in 1773. Resuscitated by an American sealer, N. B. PALMER, in 1820, it took form and definite location under WILKES's daring and persistent explorations of 1840, supplemented by those of D'URVILLE, ENDERBY, and KEMP. ROSS eliminated WILKES's discoveries from his charts, but the continent was theoretically and scientifically reconstructed by the great physicists, CARPENTER and MURRAY. Slowly evolving its tangible shape through the discoveries of the German DRYGALSKI, the Scotsman BRUCE, the Belgian GERLACHE, the Frenchman CHARCOT, the Norwegian LARSEN, and the Englishman SCOTT, through the late labors of SHACKLETON, the antarctic continent now appears to extend from Victoria Land west to Enderby Land, and from Wilkes Land across the South Pole to Palmer Land.

Under the title "Mexico," the same magazine publishes a charming series of pictures, drawn and engraved by HOWARD McCORMICK: "Mother and child" (in color), "Chato," "The picador," "The toreador," and "The tortilla vender."

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In the new South American series of papers prepared by Prof. PAUL S. REINSCH for the "World To-Day," Argentina is the subject for the June issue of the magazine. As is inevitable in considering the conditions of the Republic, much space is devoted to the capital city, Buenos Aires, with its cosmopolitan population, its beautiful streets and edifices, and its commerce-distributing water front. The country of which this remarkable city is the center is in itself no less marvelous in the variety of its resources and the assured promise of its future. The rank of the Republic as a cattle grower and grain producer is well established, but in considering the future industrial

development of Argentina vast lumber and mineral supplies must be given place, and in the opening of means of communication through previously untraversed tracts and the increase of population for the culture of vast arable areas Professor REINSCH sees important requisites in the nation's progress. No less important factor is the establishment of a bank which shall deal with North American interests. The recent visit of the writer to South America as a member of the Pan-American Commission enabled him to note the conditions and to write comprehensively of the great changes being wrought in the southern half of the continent.

The July number of the same publication treats of the "Dormant resources of Peru," by the same author. Within the national boundaries of the Republic such a variety of conditions and resources is stated to exist that Peru might be considered as an epitome of the wealth and opportunities of the world. From this standpoint Professor REINSCH surveys the vast Montaña, the wonderful mineral-bearing mountains, and the coast strip made fertile and wealth producing through irrigation.

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Current numbers of the "Outlook" devote considerable space to Pan-American affairs. Much importance is attached to the scientific congress held in Santiago de Chile in 1908, of which it is stated in the issue for May 8 that "perhaps the greatest achievement of the congress was to give to 'Pan-Americanism' a meaning and a purpose more definite than it has ever possessed before." Tribute to the press is rendered in the number of May 29, Senhor JOSÉ CARLOS RODRIGUES, editor and proprietor of the Brazilian daily, the "Journal do Commercio," being characterized as "one of the makers of Brazil." The mutual advantage accruing through the interchange of educational influences between the Americas is emphasized in the July 3 "Outlook." The visit of Secretary ROOT to Latin America, the energetic work of the International Bureau of the American Republics, and the numerous Pan-American congresses are regarded as effective agents in assisting to a wider material development and to a better understanding of international obligations, but the creation of a uniform mental attitude is regarded as essential to an absolute comprehension of racial differences. For this purpose the interchange of professors between the universities of the Americas is counseled, and Doctor ROWE, who speaks with authority on the subject, has declared that United States investigators would receive a peculiarly hearty welcome throughout the Latin America. The desire is now to make all higher education conform more nearly to United States standards, and the work of educational reorganization in South America will be largely the result of the influence of North American education.



In a consideration of "The world's highest altitudes and first ascents," by CHARLES E. FAY, A. M., Litt. D., published in the "National Geographic Magazine" for June, 1909, attention is given to the conquering of the Andean peaks. The ascent of Mount Chimborazo by HUMBOLDT in 1802 to a height of over 19,000 feet was succeeded by a similar climb a generation later, in 1831, by BOUSSINGAULT, a French naturalist, but attention was called afresh to the Andes when in 1879-80 Mr. EDWARD WHYMPER ascended, measured, and mapped not only Chimborazo, but also the active volcano Cotopaxi, Antisana, Cayamba, and several other peaks over 15,000 feet high. To the south the names of E. A. FITZGERALD and Sir MARTIN CONWAY acquired new fame as mountain climbers. In 1897 the former scaled Aconcagua and climbed Tupungato, while in 1898 CONWAY ascended Illimani and Aconcagua. These expeditions have recently been capped by the achievements of Miss ANNIE PECK, who in the summer of 1908 made the ascent of Mount Huascarán in the conviction that it was the highest peak of the Andes, attaining an elevation estimated at approximately 20,500 feet; probably within 600 or 800 feet of the summit.

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In the publication of the initial number of "*Ingeniería*" (Moderna Panamericana) for July, 1909, the editors announce that one of the objects of their highest ambition has been attained. It is stated that the purpose of the magazine is to provide for Latin countries a scientific illustrated review of corresponding rating as the "Domestic Engineering Magazine," published under the same auspices. Included in the general classification of subjects to be treated are: Industries and mining, hygiene and sanitation, iron working and foundries, municipal engineering, lighting, building and materials therefor, heating and ventilation, electricity and its various energizing ramifications, and such other kindred matters as occasion and necessity require.

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In its discussion of the leading articles of the month, the "Review of Reviews" for July comments at length on an article in the "Figaro" of Paris concerning the centennial celebrations of national independence shortly to be held throughout Latin America. WASHINGTON, BOLIVAR and SAN MARTIN are placed side by side in the annals of American liberty, the two last named being characterized as the emancipators of the southern half of the continent. SAN MARTIN'S crossing of the Andes is ranked with the passage of the Alps by HANNIBAL and NAPOLEON, and BOLIVAR'S invasion of New Granada, and the founding of Colombia created a new era in American history.

In the same section of the magazine extensive excerpts are reproduced from the article of Maj. J. ORTON KERBEY, published in the April number of the BULLETIN OF THE INTERNATIONAL UNION OF AMERICAN REPUBLICS, describing the city of Para, the distributing point for nearly \$50,000,000 worth of trade annually.

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In "*Süd Amerikanische Rundschau*" (Berlin) for July 1, 1909, is a presentation of the opportunities in Brazil, in the German colonies in Africa, for the German emigrant, contrasted with the conditions offered him, to which his country prefers that he should go. The sketch is an attractive one, and shows, with full statement of fact, that the individual settler in many parts of Brazil has only himself to blame if he does not attain a thorough success in his undertaking. The Brazilian Government stands ready to aid him in many material ways; land is given him, money loaned without interest, and free seed for the year's crop advanced. The State of São Paulo has been particularly active in this regard, so that the many German colonists settled there recently express themselves as entirely satisfied with their adopted country.

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The Yahgan inhabitants of the Fuegian Archipelago are called by CHARLES WELLINGTON FURLONG, F. R. G. S., the "southernmost people of the world," in his article published in "Harper's Monthly Magazine" for June. The gradual passing away of this independent race of islanders is demonstrated by the statement that twenty-eight years ago 3,000 Yaghans paddled their canoes in the waters of Patagonia, whereas it is doubtful if at the present time their number exceeds 175. This remnant maintains its independence in the very face of its destiny. The community life of these people, their daily habits and customs—survivals from a remote and impenetrable past—are described with charm and interest by the writer, and the numerous photographs give an adequate impression of the wild picturesqueness of the surroundings and of the personal characteristics of the people.

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In discussing the opening of new markets in Mexico and Central America in the issue of "Commercial Intelligence" for April 21, 1909, the Director of the International Bureau of the American Republics, Mr. JOHN BARRETT, states that the key to the situation lies in the remarkable railway development that is in progress between the United States-Mexican frontier and the old line of transit across the Isthmus of Panama. Accessibility means progress and stability, and

in the operation of the Tehuantepec Line in Mexico, the Northern Railway in Guatemala, the Interoceanic route in Costa Rica, the traversing of Salvador by rail, and the linking up of the various sections of the intercontinental route, the writer forecasts the realization of the Pan-American vision.

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The diamond bearing highlands of the Brazilian State of Bahia are exhaustively discussed in the "Engineering and Mining Journal" for May 15 and 22 by J. C. BRANNER, who states that he takes this opportunity to correct much misinformation published in regard to the deposits and their environment. The economic importance and scientific interest attached to this section are dwelt upon and the geologic formation and methods of exploitation described. The paper is a valuable addition to the literature on the subject. Numerous illustrations show the character of the country, the means of reaching the mines, and the various operations used in obtaining the products.

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The "American Druggist" publishes as Number 1 of its Volume XIV, June 15, 1909, a Spanish edition entitled "*Revista Americana de Farmacia y Medicina.*" It is desired that the columns of the review shall represent medical and pharmaceutical interests of Latin America, for which purpose typical articles and illustrations will be reproduced when submitted. Among the subject-matter of the present issue are papers dealing with "The University of Havana," "The College of Pharmacy of Philadelphia," "Typical American drug stores of New York," "The bubonic plague in Japan, and the methods of overcoming it," and a "Sketch of the International Bureau of the American Republics," by its present Director, Mr. JOHN BARRETT.

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An intelligent survey of "The rubber system of the Amazon," as published in the "India Rubber World" for July 1, 1909, is made by GUSTAV HEINSOHN of Para in May of that year. Primarily designed as a clear statement of the writer's views in regard to the so-called rubber valorization project, many instructive facts as to the gathering and marketing of this valuable commodity are furnished. It also corrects a mistake too prevalent abroad that "Amazon rubber is obtained by haphazard methods by ignorant denizens of the forest." To support the contention it is asked: "If it were not for a well-organized system how could Para show a certain and well-sustained and annually growing export of rubber?"

The "Bulletin of the American Geographical Society" for June, 1909, reproduces the story of the ascent of Mount Huascarán by Miss ANNIE S. PECK as told by her before the society on February 23, 1909. In the course of her lecture Miss PECK defends her use of the term "Huascarán" instead of "Huascán" in naming the mountain, stating that the latter is manifestly an error, and further citing the fact that the medal presented to her by the Peruvian Government in honor of her achievement bears the name "Huascarán." The American Geographic Board in April, 1909, also adopted it as the correct name.

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The "Mining World" for July 3, 1909, is issued as a special Mexican number and is replete with interesting information concerning the Republic and its leading industry. "The geological formation of Mexico's silver mines," "The effect of the Southern Pacific on the development of the country," "The laws governing corporations," and "A digest of the new mining law" are among the important matters treated. A table of statistics covering the mineral output during thirty-one years shows a total of nearly \$2,000,000,000 (Mexican currency) as the value of gold and silver produced, the valuation of gold being \$334,228,518, and of silver \$1,649,528,978.

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The first semiannual report of the Central American International Bureau of Guatemala appears in the April number of "*Centro-América*," the official organ of the Bureau. The report covers the inauguration and organization of the Bureau; the library report, in which special mention is made of the reception of publications from the International Bureau at Washington; general reports on commerce and finance and the work of the Bureau. The various official messages exchanged on the occasion of the inauguration of the Bureau in September, 1908, are also reproduced.

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The history of the native silver mines of Batopilas, Mexico, and their present status are authoritatively treated by Walter M. Brodie, mining engineer, in the numbers of the "Mining World" for June 12 and 26. The remarkable development work accomplished by the late ALEXANDER R. SHEPHERD is noted, and the statement made that from January 1, 1880, to the opening of 1909, covering the period of his administration and a few years subsequent, the total output has certainly been not less than \$25,000,000.

The "Scientific American" for July 10 devotes considerable space to a consideration of the guayule industry and its bearing upon the future output of rubber. The writer, J. E. KIRKWOOD, expresses some doubts as to the permanent effect of the plant upon the world's rubber supply and states that "the only hope of prolonging the business seems to be in so harvesting the plants that the roots are left in the ground." At present it constitutes one of the most important Mexican products.

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The issues of the "Mining Journal" (London) for May and June, 1909, contain valuable papers concerning various mineral-bearing regions of Latin America, notably the following: "Some petroleum bearing regions of Mexico," May 15; "The ore deposits of the Sierra de Cordoba, Argentine Republic," May 29; "The borate deposits of the Atacama Desert, Argentine Republic, June 12; and "The mineral deposits of southern Matto Grosso, Brazil," June 19. The latter also furnishes interesting sketches and notes on the emerald mines of Colombia.

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"The Economist" (London) in its issues for June 12 and 19 devotes much space to Latin-American matters. "Factories of Lima and the Peruvian Corporation," "The mines and minerals of Colombia," "Ecuador and its port," and "The industries of Peru" being among the subjects discussed, while in financial and business notes and correspondence the "Presidency of Brazil," "The Cordoba Central of the Argentine Republic, Ecuador and the Guayaquil and Quito Line," and "Argentina," are reported on.

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The "Outing Magazine" for June and July continues the charming accounts of DILLON WALLACE concerning his travels "Beyond the Mexican Sierras." The capital city of Tepic is visited and described in the first, and the region of Mexcaltatan and the Lagunas in the second. The running commentary on events by the way is supplemented by photographs illustrative of native life and scenery.

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In its section devoted to Reviews of Books, the "American Historical Review" for July, 1909, makes appreciative comment of "*Saint Domingue: La Société et la Vie Créole sous l'Ancien Régime*" (1629-1789), by PIERRE DE VAISSIÈRE. Paris, Perrin et Cie. The writer has been enabled by a long and diligent study of colonial archives at Paris to adequately depict the social life in the Dominican Republic under the French régime.

A contribution of value to Haitian interests is a paper published in the "Mining World" for July 10, 1909, treating of the mineral resources of Haiti, by EDWARD W. FERGUSON, mining engineer. Deposits of iron, manganese, lignite, oil and bitumen, gypsum, and copper are located and described.

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In considering Cuba's future, H. A. AUSTIN, in the "North American Review" for June, 1909, states that with a "stable government and peaceful conditions existing on the island, with its fertile soil and other natural conditions, Cuba, in reality, as well as in name, would become the "Pearl of the Antilles."

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The monthly review "America," published in Spanish, has as its initial article for June, 1909, an illustrated account of "Mexico and Porfirio Diaz in 1909," followed by an illuminative description, also profusely illustrated, of the "City of Mexico under various aspects."

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In "World Events" for May, 1909, under the title "South America and her commerce, some things we do not know about our neighboring Republics" are narrated by Hon. CHARLES B. LANDIS.

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"Machinery News" for June publishes a paper by Maj. J. ORTON KERBEY concerning the way to win the trade of South America, in which valuable suggestions are made for the business man.

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The "Banker and Investor Magazine" for July reprints a valuable report furnished by United States Consul-General ANDERSON at Rio de Janeiro in regard to the agricultural bank established by the Federal Government of Brazil in 1907.



# LATIN-AMERICAN NOTES

Venezuela has placed all materials used for disinfecting purposes on the free list.

The first Mothers' Club in the Argentine Republic was recently opened in Buenos Aires.

The city of Guadalajara, Mexico, has decided that all electrical wires shall be placed underground.

The population of Buenos Aires, Argentine Republic, on March 31 was 1,198,802, or 58,525 more than a year previous.

The University of La Plata, Argentine Republic, is to institute a six-year course for the training of hydraulic engineers.

The University of Cordoba, Argentine Republic, founded in 1613, is organizing courses in university extension, and is about to erect a new building.

The new members of the Cuban Cabinet are: Secretary of Government, Señor Francisco Lopez Leiva; Secretary of Public Works, Señor Joaquín Chalons.

Shipment over the Tehuantepec-Orient route was inaugurated between Hongkong and New York in April, the first cargo arriving in New York after a voyage of fifty-three days.

There has recently been held in Berlin, Germany, an exhibit of paintings in Brazil, both landscape and city life, made by a Munich artist who decorated the new steamers of the Hamburg-American Line.

Plans are on foot for holding an Agricultural and Corn Exposition in Mexico. This may assume the shape of an agricultural congress to be held in September, 1910, as a part of the celebration of the Mexican Centennial.

The exports of manganese ore from Brazil in 1908 were valued at \$1,200,868, against \$2,442,984 in 1907. The exports of the ore to the United States in 1908 amounted to only \$140,648, as compared with \$521,581 in 1907.

The BULLETIN is informed by the United Fruit Company that they are at present operating over 150 miles of railway in the Republic of Panama, one half of which is used for the transportation of both freight and passengers.

A decree of May 10, 1909, provides for the exemption from taxation of lands in Panama devoted to bananas and cacao when grown to the exclusion of other crops. In other instances they are subject to taxation as by statute provided.

The British Vice-Consul at Maldonado, Uruguay, has been awarded a government bonus of \$3,000 for having been the first to set out a plantation of over 10,000 maritime pines. This prize was awarded under the Uruguayan afforestation act of July, 1897.

An executive decree promulgated by President DIAZ, of Mexico, under date of June 1, 1909, continues in force for the term of one year the exemption from duty on foreign merchandise introduced into the Territory of Quintana Roo for consumption in that district.

The American and Rio Plata steamship line, operating a fortnightly service between New York and the River Plata, will carry samples and exhibits for the railway exposition to be held in Buenos Aires in 1910, at a reduction of  $33\frac{1}{2}$  per cent from the regular freight tariff.

Brazil has been compelled to import a very large portion of its food supply, in spite of the fact that many sections of the Republic are suitable for its production, but the development of agriculture is already showing its effect in the decreased imports of foodstuffs and forage.

The Astronomical Society of Mexico issued invitations to a special meeting on May 12, 1909, in order to celebrate the tercentenary of the invention of the telescope, which was first made in 1609. It would seem that a Republic of Latin America is the only nation to make formal recognition of this great event in science.

The fiftieth anniversary of the death of ALEXANDER VON HUMBOLDT—May 6, 1859—was observed in Germany with befitting ceremonies. This remarkable man, who, with Goethe, ranks as the highest product of Germany's intellectual genius, did in his time more than any one person to call the world's attention to the wonderful resources of Latin America.

Brazil is taking a keen interest in the Dry Farming Congress to be held in Billings, Montana, October 26 to 28, 1909, and is to be represented by exhibits and delegates. Arrangements are to be made for a branch of the Congress in Brazil at the expense of the Government, by which all discussions in America may be translated into Portuguese and all discussions in Brazil may be translated into English.

The new President of Brazil, within a few days after assuming office, appointed Dr. CANDIDO RODRIGUES, of the State of São Paulo, to organize the Department of Agriculture, Industry, and Commerce, which was created by the law of December 29, 1906. The appointment of Doctor RODRIGUES to this important office is regarded by the press of Rio as a guaranty that this new department will be ably administered.



A new company, composed of Americans and Brazilians, is negotiating for a franchise to operate a line of street cars in Santos, Brazil, to be constructed up Monte Serrate and to the beach, and Doctor FERREIRA DOS SANTOS, chief of the Bureau of Telegraphy, is negotiating for the installation of a wireless station on Monte Serrate, overlooking both sea and city. The greatest difficulty in the project seems to be in obtaining motor power.

A chamber of commerce was organized in the Argentine city of Bahia Blanca in April, supplanting the active commercial organization that had existed in that city since 1901. American trade journals printed in Spanish, and advertising matter, also in that language, may be sent to the Secretary of the Chamber of Commerce, Bahia Blanca, Argentina, where there is a growing market for American lumber, structural steel, building materials, and railway supplies of all kinds.

The largest engine ever operated in Mexico has recently been delivered to the Mexican Central Railroad by the Baldwin Locomotive Works for use on the line from Cardenas to Tamasopo. The track over which it will work ascends 3,200 feet in a distance of 30 miles. The engine is a Mallet compound oil burner, and, with tender, weighs 338,000 pounds. Fifty-three days were required for it to reach its destination from Philadelphia and several bridges between that city and Aguascalientes had to be reinforced before the monster locomotive could pass over them.

The Fuller Argentine Package Express is the name of a company recently established in the city of Buenos Aires, Argentine Republic, Calle Maipú, 71. In addition to a regular express service for small packages with the United States, where they have an office in the Produce Exchange, New York, it is their intention to keep on file in Buenos Aires as complete a list as possible of catalogues of American manufacturers for free consultation by Argentine importers. It is requested, therefore, that advertisements of this character be sent to them liberally by all those interested in such publicity.

In the July issue of the MONTHLY BULLETIN some errors were made in connection with the steamship service of the United Fruit Company. According to their latest sailing schedules, the voyage from New Orleans to Guatemalan ports takes less than four days. The service of that company between New Orleans and Ceiba, Honduras, has been discontinued. The company operates steamships from New Orleans to Colon and from New Orleans and New York to Bocas del Toro, Panama. The fare from New Orleans to Bocas del Toro is \$50, and from New York to the same point, \$60. They also maintain a line from Boston to Port Limon, Costa Rica, the voyage consuming eight days.

# THE MONTH OF JULY IN PAN-AMERICAN HISTORY

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- July 1, 1904.—The ratifications of the treaty between the United States and Cuba are exchanged at Washington.  
1860.—A convention between the United States and Costa Rica is signed at San Jose, by the terms of which all pending claims are referred to arbitration.
- July 2, 1881.—JAMES A. GARFIELD, the twentieth President of the United States, is shot by a political fanatic at Washington.
- July 3, 1898.—Admiral CERVERA's squadron is destroyed off Santiago de Cuba by Admiral SAMPSON's fleet.
- July 4, 1776.—The representatives of the 13 colonies, constituted as the United States of America, unanimously adopt the Declaration of Independence.  
1826.—THOMAS JEFFERSON, patriot and third President of the United States, dies at Monticello, Va.  
1851.—The first railway in South America, built by WILLIAM WHEELRIGHT, between Caldera and Copiapo, Chile, is opened to the public.
- July 5, 1811.—Declaration of independence of the Republic of Venezuela.
- July 6, 1807.—The British troops, under General WHITELOCKE, are defeated by the Spanish and Argentine forces in their second attempt to capture Buenos Aires.  
1908.—*The Roosevelt*, Commander PEARY's ship, starts on a polar expedition.
- July 7, 1519.—On the plains of Otumba, CORTES decides the fate of Mexico by defeating the great Aztec army, which had driven his forces out of the city, after a gallant defense of seventy-five days.  
1898.—The Republic of Hawaii is annexed to the United States at the request of the citizens of the former.
- July 8, 1628.—A Spanish treasure fleet is captured in the Bahamas Islands by the Dutch Admiral PETER HEYNE.
- July 9, 1816.—The first congress of the United Provinces of the Rio de la Plata adopts a declaration of independence.
- July 10, 1528.—The famous Spanish explorer, ALVARO NUÑEZ CABEZA DE VACA, reaches the coast of Texas.
- July 11, 1809.—The combined forces of Spain and Great Britain besiege and capture the city of Santo Domingo from the French.
- July 12, 1784.—Don JUAN MORA Y FERNÁNDEZ, first President of the Republic of Costa Rica, is born at San Jose.
- July 13, 1584.—Sir WALTER RALEIGH's expedition lands on the island of Wocokon, and takes possession, naming it Virginia, after the Virgin Queen.
- July 14, 1816.—FRANCISCO MIRANDA, Venezuelan patriot and soldier, and retired general of the French army, dies at Cadiz, Spain.
- July 15, 1712.—The province of Louisiana is granted by the French King to ANTOINE CROZAT for a period of twelve years.
- July 17, 1852.—The Argentine Republic recognizes the independence of Paraguay.

- July 18, 1830.—The constitution of the newly established Republic of Uruguay is sworn to and put in operation.
- 1872.—BENITO JUAREZ, Mexican patriot and statesman, dies in Mexico City.
- July 19, 1800.—Gen. JOSÉ JUAN FLORES, first President of the Republic of Ecuador, is born at Puerto Cabello.
- 1824.—Emperor ITURBIDE (AGUSTIN I) of Mexico is executed at Padilla.
- July 20, 1810.—The revolution against Spain in the viceroyalty breaks out in the capital, Bogota, the viceroy is deposed, and a provisional board of government is established.
- July 21, 1608.—Capt. JOHN SMITH returns to Jamestown after the first exploration of the Chesapeake Bay and its tributaries.
- 1822.—ITURBIDE, under the name of AGUSTIN I, is crowned as Emperor of Mexico.
- July 22, 1795.—Signing of the treaty of Basel, whereby Spain cedes the entire island of Haiti to France.
- July 23, 1840.—DOM PEDRO II is declared of age and crowned Emperor of Brazil.
- 1906.—The Third Conference of American Republics is formally opened at Rio de Janeiro.
- July 24, 1783.—The Liberator, SIMON BOLIVAR, is born at Caracas.
- 1823.—The Republic of Chile declares the emancipation of slaves.
- 1847.—BRIGHAM YOUNG founds Salt Lake City.
- July 25, 1524.—ALVARADO, one of CORTES's lieutenants, having defeated the Quiche Indians and conquered Guatemala, founds the city of Tecpan, Guatemala.
- 1535.—SEBASTIÁN DE BENALCAZAR, one of PIZARRO's lieutenants, founds the city of Guayaquil.
- July 26, 1565.—The Spaniard MENÉNDEZ destroys the colony of the French Huguenots in Florida, hanging all the inhabitants as heretics.
- 1810.—The independence day of the Republic of Colombia.
- 1822.—An interview between the two Liberators, BOLIVAR and SAN MARTIN, takes place at Guayaquil.
- July 27, 1610.—Sir THOMAS SMYTHE discovers Delaware Bay.
- 1811.—Don MIGUEL HIDALGO Y CASTILLO, Mexican patriot, priest, and soldier, is shot at Chihuahua.
- 1853.—A treaty of amity, commerce, and navigation is concluded between the Argentine Confederation and the United States.
- July 28, 1821.—The independence of Peru is formally proclaimed at Lima.
- 1906.—ELIHU ROOT, Secretary of State of the United States, arrives at Rio de Janeiro on board the U. S. S. *Charleston*.
- July 30, 1502.—COLUMBUS, on his fourth and last voyage, discovers the island of Guanaja or Bonaca, naming it "Isla de Pinos" (Isle of Pines).
- 1619.—The House of Burgesses meets at Jamestown, the first colonial legislature in the New World.
- 1777.—WASHINGTON crosses the Delaware to Germantown with his army.
- July 31, 1498.—COLUMBUS, in his third voyage of exploration, discovers the Island of Trinidad.

# THE MONTH OF AUGUST IN PAN-AMERICAN HISTORY " " " "

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- August 1, 1498.—COLUMBUS discovers the mouth of the Orinoco on his third voyage of exploration.
- August 2, 1868.—Don JOSÉ BALTA is elected first President of the Republic of Peru.
- August 3, 1492.—COLUMBUS sails from Palos, Spain, with three caravels, the "*Santa Maria*," the "*Pinta*" and the "*Niña*," on his first voyage in search of a passage to the Indies, which resulted in the discovery of America.
- 1821.—Gen. SAN MARTIN is proclaimed by the Peruvians Protector of Peru.
- August 4, 1886.—The present constitution of the Republic of Colombia is adopted.
- August 6, 1824.—The patriot forces, under the lead of General BOLIVAR, defeat the Spanish at the battle of Junin.
- 1825.—The provinces of Upper Peru declare their independence from Spain and form a Republic under the name of Bolivia, in honor of the Liberator.
- 1826.—Inauguration of the first President of Bolivia, Gen. ANTONIO JOSÉ DE SUCRE.
- 1908.—The Fifth Pan-American Medical Congress opens at Guatemala City.
- August 7, 1538.—The Spanish explorer, JIMÉNEZ DE QUESADA, founds the city of Bogota.
- 1819.—General BOLIVAR defeats the Spanish troops at the battle of Boyaca.
- 1892.—Chile and the United States sign a convention agreeing to submit the claims of the citizens of the latter against the former to a commission.
- August 8, 1621.—Creation of the University of Cordoba, Argentine Republic, by Pope GREGORY XV.
- 1828.—The present constitution of Chile is promulgated.
- August 10, 1809.—The first cry for independence in South America is given out in Quito.
- 1909.—Opening of the National Exposition of Quito, Ecuador, in commemoration of the one hundredth anniversary of the declaration of independence.
- August 11, 1908.—Inauguration of the National Exposition of Rio de Janeiro, in commemoration of the one-hundredth anniversary of the opening of Brazil's ports to the commerce of the world.
- August 12, 1806.—The city of Buenos Aires, which had been captured by the British under BERESFORD, is retaken by the Spaniards under SANTIAGO DE LINARES.
- August 13, 1521.—Cortes, having built and transported a fleet, launches it on the Lake of Mexico, and takes the city after a long siege.
- August 14, 1502.—Columbus, on his fourth and last voyage, discovers the coast of Honduras, landing at what is known as the Cape of Honduras.

- August 14, 1811.—The movement for independence in Paraguay is initiated at Asuncion by Don PEDRO JUAN CABALLERO.  
1906.—ELIHU ROOT, Secretary of State of the United States, arrives at Buenos Aires.
- August 15, 1519.—Governor PEDRARIAS founds the city of Panama, which formed the basis for the exploration of the west coast.  
1536.—JUAN DE AYOLAS, Spanish soldier and explorer, founds the city of Asuncion, Paraguay.
- August 16, 1853.—The inhabitants of Santo Domingo revolt against the Spanish, who had again taken possession of the island. This was the first movement toward the definite establishment of the Dominican Republic.  
1858.—The first cable message is sent across the Atlantic Ocean.
- August 17, 1850.—General SAN MARTIN, the liberator, dies at Boulogne-sur-mer, France.  
1874.—An arbitration treaty is signed between the United States and Colombia.
- August 18, 1648.—The Portuguese defeat the Dutch at the battle of Guarapes, Brazil.
- August 20, 1780.—The Chilean patriot and soldier, Don BERNARDO DE O'HIGGINS, is born at Chillan, Chile.
- August 21, 1521.—CUAHUTEMOC, the Aztec emperor, having been captured by the Spaniards under CORTES, and refusing to reveal the hiding place of his treasures, is subjected to torments.
- August 23, 1892.—Gen. DEODORO DA FONSECA, first President of Brazil, dies.
- August 24, 1777.—Washington's army passes through Philadelphia for the Chesapeake.
- August 25, 1825.—The Republic of Uruguay declares its independence and separation from Brazil.
- August 26, 1906.—The Third Pan-American Congress, at Rio de Janeiro, adjourns its sessions, and recommends that the next meeting be held within five years at Buenos Aires.
- August 27, 1828.—A treaty of peace is signed between Argentine Republic and Brazil guaranteeing the independence of Uruguay.
- August 28, 1821.—General SAN MARTIN, Protector of Peru, founds a library at Lima.
- August 29, 1533.—After raising a ransom valued at \$17,500,000, PIZARRO puts ATAHUALPA, the captive Inca, to death at Caxamarca.  
1565.—The town of St. Augustine, Fla., the oldest European town in the United States, is founded by MENENDEZ, a Spanish soldier.  
1793.—The French Commissioner, POLVEREL, issues a decree abolishing slavery in Haiti.
- August 30, 1498.—COLUMBUS discovers the islands of Cubagua and Margarita, off the coast of Venezuela, which afterwards became renowned for their pearl fisheries.  
1857.—The first railway in the Argentine Republic, running from Buenos Aires to Las Flores, is opened to the public.
- August 31, 1848.—The Republic of Costa Rica (having previously seceded from the Central American Union) adopts its constitution.  
1867.—The Republic of Peru adopts its constitution.

# THE NEW PRESIDENT OF BRAZIL    "    "    "    "    "

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ON June 14, 1909, Dr. NILO PEÇANHA, Vice-President of the United States of Brazil under the administration of President AFFONSO PENNA, who died in office, assumed the presidential chair for the remainder of Doctor PENNA's term.

The rapidity with which President PEÇANHA has risen to high political honors has been remarkable—a Federal Deputy at the age of 21, a Senator and Governor of his State at 35, Vice-President of the Republic at 38, and finally President of the Republic at 41.

He was born in the city of Campos, State of Rio de Janeiro, and after completing his primary and secondary studies he matriculated in the Law School of Pernambuco, where he graduated with honors.

With the advent of the Republic, the young law graduate was elected Deputy to the Constitutional Assembly, being the author of several articles of the present constitution of Brazil, among them the article providing for compulsory arbitration of international disputes. After serving twelve years as Deputy from the State of Rio de Janeiro, he was elected Senator and then Governor of his State.

The great work he accomplished in reorganizing the government and finances of the State of Rio de Janeiro while Governor is proof of his remarkable administrative ability. When he announced his candidacy for the office of Governor, the State was in the throes of a great financial and economic crisis, and even his warmest friends and admirers doubted his ability to successfully cope with the situation. The State was financially insolvent and its autonomy was threatened. One of his first official acts after assuming office was to cable the State financial agent in Europe to suspend the negotiations then in progress for a large State loan. During the four years of his administration he rendered inestimable services to his State and revealed himself to be a statesman and administrator of a high order. He reorganized and consolidated the public departments and abolished many offices which he regarded as unnecessary or useless. He reduced the salaries of public officers, beginning his campaign of economy by making a reduction of 25 per cent in his own salary. He annulled or modified existing contracts with the resultant economy to the State of large sums. He improved public instruction and established professional schools and promoted the development

of the agricultural, pastoral, and mining industries. He made a reduction in all export duties and sought and obtained from the railway companies a considerable reduction in freight rates.



THE PALACE OF THE PRESIDENT, RIO DE JANEIRO, BRAZIL.

At the close of the second year of his administration, the receipts for the first time in eleven years exceeded the expenditures, and in the last year of his administration there was a surplus in the Treasury of over 1,000 *contos*, after having promptly met all its obligations.





## HONORING THE INDEPENDENCE DAY OF THE UNITED STATES IN THE AMERICAN REPUBLICS

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**T**HE Fourth of July represents a distinct epoch in history. In fact, it has lost its significance as a date in the annual calendar and, used in its special sense, refers altogether to the event of which the phrase is symbolic. Historically it indicates the day in 1776 when the Declaration of Independence of the "United Colonies" (now the United States of America) was declared; its broader meaning, however, is taken by all civilization to be the beginning of the severance of the new world from the old, the denial in America of the European doctrine of the divine right of kings.

The term "Independence Day" is often used, especially in solemn and intensive oratory, and it is necessary to explain to the foreigner that the Fourth of July is the independence day, the birthday, of the first American nation. It will be acknowledged, when attention is called to it, that America really has national birthdays, to which the finger of time can point with as clear precision as to the date of a great battle, or, what is of higher analogy, to the hour when a corner stone was laid for some building that is to be used for the benefit of a whole people. Other nations grew slowly into their present degree of civilization, and have passed from one system of government into another only by a slow process of evolution. In some instances there has been an indistinctly defined revolt, dragging its protest through a crisis of months and years. England, to be sure,





IN THE CITY OF MEXICO ON INDEPENDENCE DAY,  
where the address of the day was delivered.

had its Magna Charta day, France celebrates the fall of the Bastile, and Switzerland attaches its reverence for liberty to the names of TELL and WINKELRIED. But a natal day for a nation is distinctly American. Every republic on the Western Hemisphere is proud of its natal day. Ecuador and Bolivia enjoy a friendly rivalry among the Republics of Latin America, as having been the first provinces to declare, in 1809, an independence from Spain. Argentina, Mexico, Chile, and others followed in 1810; Brazil, by a bloodless revolution, joined the republican ranks in 1889. Each republic therefore celebrates its own day of independence as one of the great fiestas of the people.

One graceful feature of all of these Republics, peculiarly characteristic of Latin and Latin-American courtliness, is the honor paid to the Fourth of July, in the sense that it is not only the great national holiday of the United States, but also the date of the first concerted movement in America asserting a determination to establish on the Western Hemisphere a republican form of government.

In Mexico, both by custom and by law, the national flag is displayed from public buildings in honor of the Fourth of July, and congratulatory telegrams are sent from the capital to Washington. Each year, moreover, some special tribute is paid to the day by a union of national officials with those American residents celebrating the event. This year the holiday was felicitously recognized by the President of Mexico, Gen. PORFIRIO DIAZ, who attended with his staff a splendid breakfast on the Fourth of July given by the American colony of Mexico. Just before this hour a reception had been held by the American Ambassador, the Consul-General, and the members of the society, with President DIAZ and Vice-President CORRAL as guests of honor, at which a happy address was delivered by Mr. ARNOLD SHANKLIN, Consul-General, and a cordial response acknowledged by the President. Members of the various foreign diplomatic corps were also present, and took part with equal sincerity in the formal proceedings, watching also with interest the sports and amusements generally indulged in by loyal Americans on this day in whatever portion of the world they happen to be. Similar celebrations have been held in the City of Mexico for many years, and wherever within the Republic Americans can gather together on that day they are joined by Mexicans who rejoice with them in calling the Fourth of July one of the great days of America.

It is natural to suppose that on the Canal Zone in Panama there would be a genuine celebration by the 5,000 or more Americans there, and good proof of this is given in the issue of "The Canal Record" for June 30, 1909. Almost an entire page is devoted to the day's programme, which includes amateur athletic events, parades, fireworks, several concerts, exhibitions, and tournaments, ending in a grand ball

to which the whole colony was invited. But in addition to the spirit of patriotism on the part of native-born Americans there was a delicate act of courtesy shown by the Republic of Panama to the Govern-



× Col. Felix Diaz.

× President Diaz.

The President of Mexico was received by a committee just outside of the grounds in which the "Fourth of July" celebration was held. The photograph shows the distinguished guest and his son, who is a colonel in the Mexican Army.

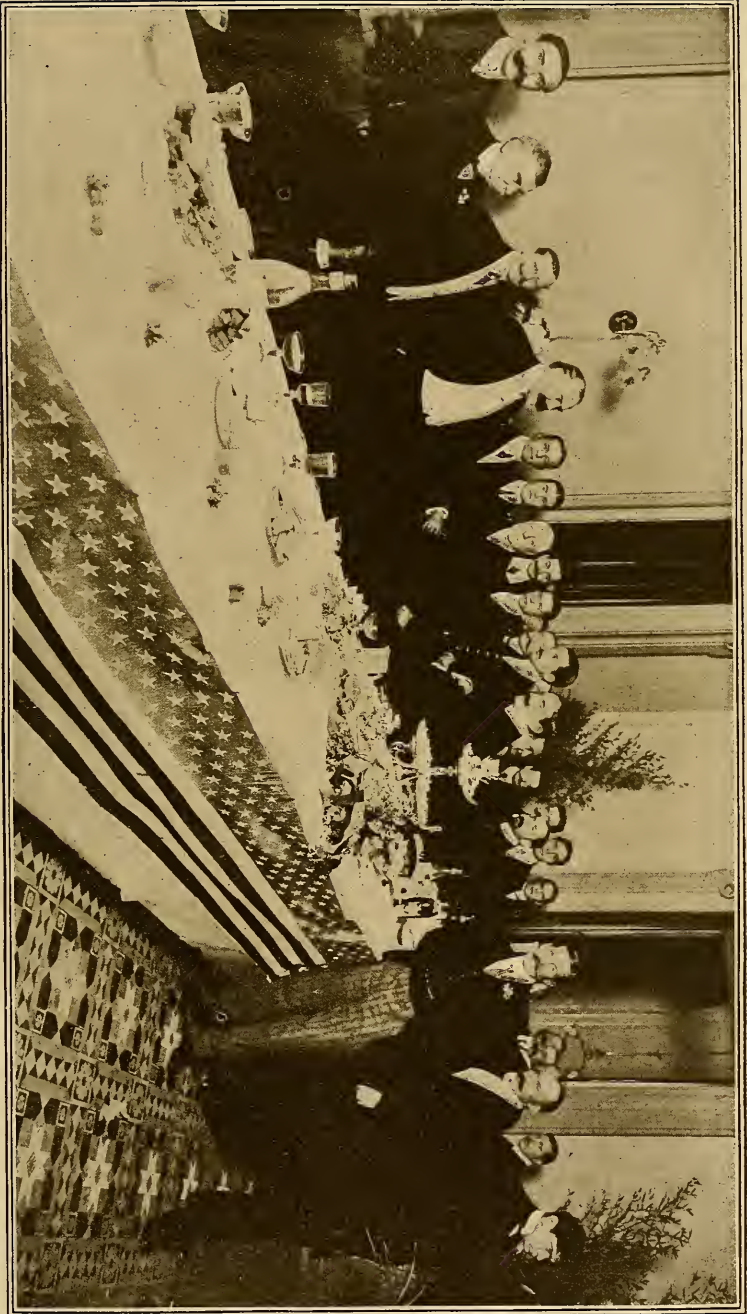
ment of the United States through the Isthmian Canal Commission which is noteworthy. In recognition of a similar courtesy manifested

by the commission on the anniversary of the natal day of the Republic of Panama, November 3, which had been set apart as a holiday throughout the Canal Zone, President OBALDIA, through the Secretary of Government and Justice, designated the Fourth of July (actually the 5th in this instance) as a civic holiday within the cities of Colón and Panama.



Hon. Arnold Shanklin, Consul-General in the City of Mexico, delivering the "Fourth of July" address before the American residents and official Mexican guests. Mr. Shanklin spoke in both English and Spanish. Directly back of him are General Porfirio Diaz, the President of the Republic of Mexico, Hon. David E. Thompson, American Ambassador to Mexico, and Señor Ramón Corral, Vice-President of Mexico.

But the Republics far removed from the United States by distance and social intimacy were glad to embrace this opportunity to show that such barriers disappeared before the inspiration of sentiment and fraternal affection which, on this day above all others, demonstrates the real vitality of Americanism. In Lima, the capital of the Republic of Peru, a ceremony of the same nature as that in Mexico was heartily carried out. The American legation held a reception



CELEBRATION OF THE FOURTH OF JULY IN MONTEVIDEO, URUGUAY.  
Gen. E. C. O'Brien, the American Minister, entertaining his guests.

for citizens of the United States fortunate enough to be in the neighborhood, and President LEGUIA of Peru was among the visitors eager to honor this Independence Day and the country to which it gave birth. In La Paz, the capital of Bolivia, where to be sure there are not many American citizens, but where the ties of friendship have been materially strengthened during the last few years, equal respect was paid to the flag and to the day. One of the local papers, which published a photograph of President TAFT, concluded its remarks upon the Fourth of July in the following tribute: "The United States is a land of men and genius, and has gained the admiration of the world not for its military glories, which are few, but for its scientific conquests, which are many. Increased prosperity to the sister Republic of the North means in the end increased prosperity to all the Republics of Latin America." In Uruguay, the American Minister was the host for his countrymen at a banquet, given on the Fourth of July. Among his guests also were many distinguished "Orientales," Uruguayans, who took the occasion to pay their respects both to General O'BRIEN and the nation he represented.

In Argentine Republic, which is geographically the farthest removed from the United States of all the American Republics, there is firmly founded one of the most patriotic societies in the world. Its name is the North American Society of the River Plate (see BULLETIN, April, 1909, p. 679), and one of its chief objects is to offer to all North American residents of the region of the River Plate an opportunity to celebrate the Fourth of July. Oddly enough, many members of the society are Canadians, while not a few are South Americans who have spent several years in the United States. This year a banquet was given in which Hon. Charles H. Sherrill, the newly arrived American minister to Argentina, delivered a splendid address to that Republic. A unique feature of the day in Buenos Aires was a Fourth of July concert given by an English organization. The Argentine national hymn and the American national hymn were sung one after the other, and the English combined the words of "God Save the King" with "America" in beautiful accord. The government officials never omit to pay their respects, either by personal calls of state or by formal tribute of flowers and congratulations, to the minister and consul of the United States of America, and the Argentine daily papers always mention this international *fiesta* in words of friendship.

In fact, the attention called to the Fourth of July by all the newspapers of Latin America is a sincere testimony to the lasting respect in which this crisis in the history of the Western Hemisphere is held. On this great anniversary there is sure to be some paragraph or even more extensive sketch of the history of the event; some notice of its general significance or particular celebration in some locality or by



EXECUTIVE COMMITTEE OF "THE NORTH AMERICAN SOCIETY OF THE RIVER PLATE," OF BUENOS AIRES, ARGENTINE REPUBLIC.

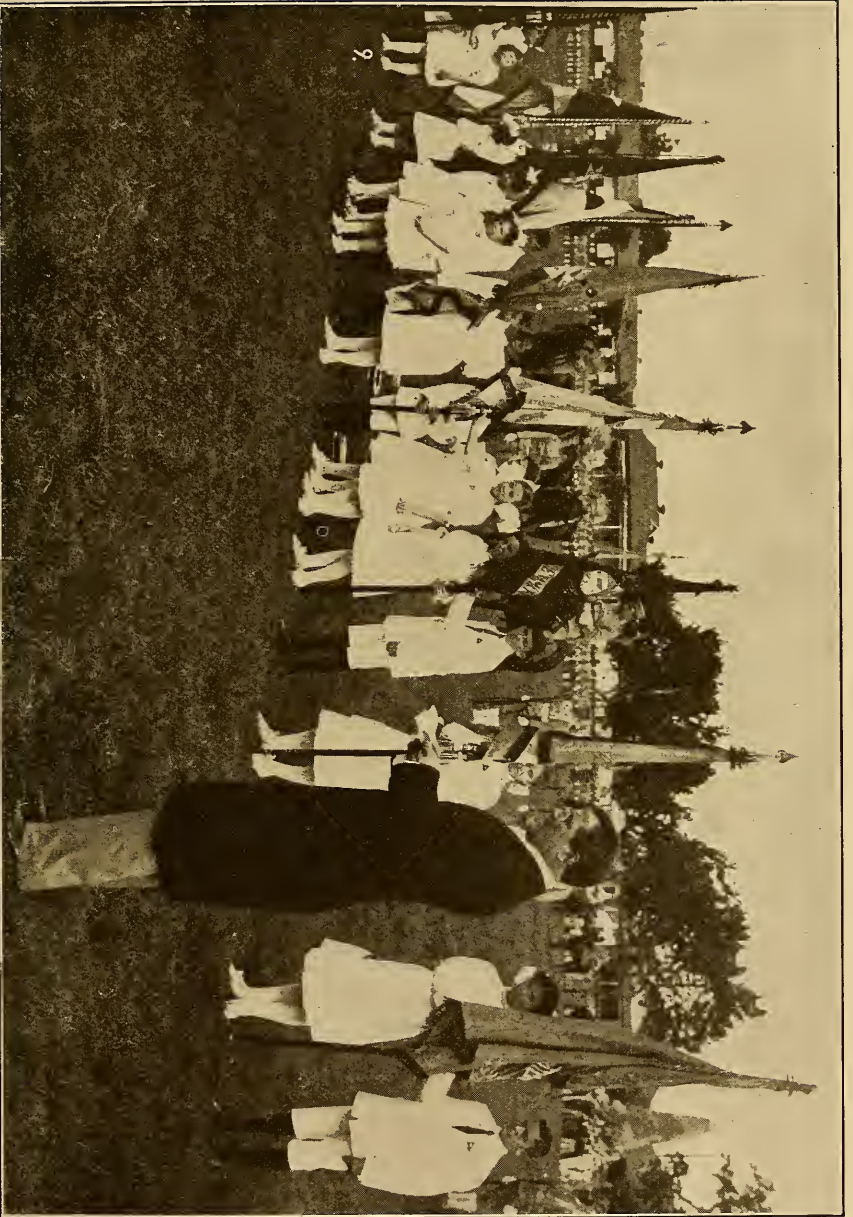
A fine reception and banquet was given on the Fourth of July by this Society in Buenos Aires.

some local association. In Pará, Brazil, for instance, this year there was a pleasant reception held at the American consulate attended by the principal magistrates of the city. In Rio de Janeiro the American Association of Rio de Janeiro held a celebration out of doors, one of the features of the entertainment being a baseball game which, for almost the first time, could be played in Brazil by real American talent. To this game the English Cricket Club was invited, and the Revolution of 1776 was thereby completely buried in a friendly rivalry between the sports of the Old World and those of the New.

It is evident that wherever Americans are most numerous settled they will be most active in promoting, among themselves at least, a celebration of their great national holiday. This by no means implies any influence upon the officials of the governments in which they for the time being are living. On the contrary, the presence of only one or two Americans suffices to bring out all marks of delicate courtesy from the representatives of foreign governments, to demonstrate that they are not isolated in sentiment because they happen to be separated from their fellow-countrymen. But Americans must have their Fourth of July, and the more to enjoy it the merrier. The last few years in Cuba have shown a decided increase in the number of residents and settlers in that beautiful island, and consequently they have taken their holiday with them. This year, however, there was a most cordial combination of the American idea with the Latin habit of recognizing its significance befittingly. The headline called the event "Cuban-American Confraternity." The particular act around which interest centered was the review of certain regiments of the Cuban army, directed by Maj. Gen. FAUSTINO GUERRA, and the reception by them of a set of standards presented by a body of little American girls through the same number of little Cuban boys. The president of the American Club of Havana made the dedicatory address, and the acceptance was acknowledged by General GUERRA.

All these ceremonies and celebrations have one other feature, besides the decided feeling of friendship of Latin America for the United States, in common. This is the absence of noise and explosion, and the substitution therefor of games, parades, concerts, social gatherings, and dances. In other words, Latin America has taught us the pleasure to be derived from a "safe and sane Fourth." This does not mean that no fireworks were displayed, or that salutes were not fired on proper occasion. There was plenty of both, but due caution and control were exercised. It does mean that American children and American adults can have as much fun, and show their loyalty with as much enthusiasm, both abroad and at home, without that lawlessness which hitherto has been, unfortunately, too characteristic of the Fourth of July.





CAMP COLUMBIA, JUST OUTSIDE OF HAVANA, CUBA, DURING THE CUBAN-AMERICAN CELEBRATION OF THE FOURTH OF JULY.

Twelve little American girls are presenting standards to twelve little Cuban boys who will in turn present them to the army. The celebration was heartily enjoyed by both Cubans and Americans, and had the approval of President Gomez.

Washington, the capital of the United States, was, the BULLETIN is proud to say, a leader in the movement to repress the noisy and degrading side of the national celebration and to set before the country an example of what a really patriotic Fourth of July could be. Not a person was injured in all Washington; not one serious fire was



THE PROCESSION OF FLOWERS PASSING UP PENNSYLVANIA AVENUE FROM THE CAPITOL, WASHINGTON, D. C.

The "Fourth of July" in Washington, D. C., was celebrated with all the enthusiasm necessary to show a true loyalty in the hearts of Americans, but without noise or disaster. Fireworks were displayed in the evening, which were attended and enjoyed by thousands. During the day, besides the open-air ceremonies in the public places, a very pretty procession of flower decorated automobiles was organized, and delighted the people who took part in or viewed it.

recorded during the twenty-four hours of this natal day. Therefore, in insisting that America continue to celebrate with all the joy implied by the term "Independence Day," it is well to be grateful for these instances of courtesy which can be found in every Republic of Latin America.



# ANNUAL REVIEW OF THE ARGENTINE NAVY<sup>a</sup>    \* \* \* \*

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**T**HE annual review of the Argentine fleet took place May 29, 30, and 31, off Puerto Militar, the naval station adjoining the city of Bahía Blanca.

The President and committee, with the Minister of Marine, arrived from Buenos Aires on the 29th, and were met by a guard of honor composed of detachments from the fleet, coast artillery, and naval cadets.

The new port works were inspected with the workshops, naval stores, hospital, and dry docks, all of which were found in perfect order. His Excellency then boarded the frigate *Sarmiento* and reviewed the squadron drawn up in order of battle.

The sight was an impressive one. As the white frigate steamed slowly between the gray hulls of war ships, each in turn burst into flame with the thunderous presidential salute of 21 guns, between the discharges the assembled crowd ringing out the shout "Viva la Republica."

After the salute the President transferred his flag to the battle ship *Belgrano*, flagship of the squadron, whence he witnessed boat exercises and maneuvers by the torpedo fleet, which later engaged in a mimic night attack upon the larger ships.

The following day the squadron steamed 40 miles out to sea and gave an exhibition of target practice at full speed, averaging 70 per cent of centers at ranges varying from 3,700 to 2,500 meters. The gunners in every case were young conscripts, yet so perfect was the marksmanship that the remains of the target, shattered by the first ship which opened fire, could not be seen at times for the spouts of foam lifted by the projectiles.

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<sup>a</sup> By LOUIS COFFIN.

Trials of speed succeeded the target practice, after which the fleet returned to Puerto Militar.

The third day the shore batteries fired upon a moving blank, and later a sham engagement took place between these and the squadron, entering in single file and replying to the fire of the batteries, affording the spectator a splendid sight.

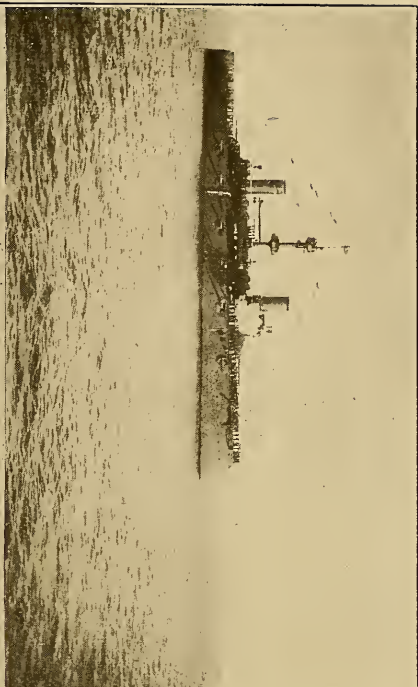


FRIGATE "SARMIENTO," WITH YARDS MANNED, AWAITING THE ARRIVAL OF THE PRESIDENT.

One still finer was enjoyed in the afternoon when a force of 2,500 men and 4 guns were landed and occupied the beach, defended by 1,000 men with field artillery.

The inauguration of a new proving ground for heavy guns, with various tests of penetration, velocity, and rapidity of fire, closed a programme most enjoyable and most interesting.

GARIBALDI.



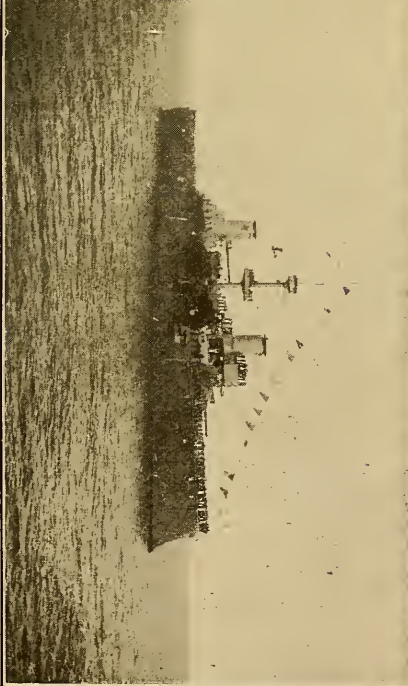
BELGRANO.



SAN MARTIN.

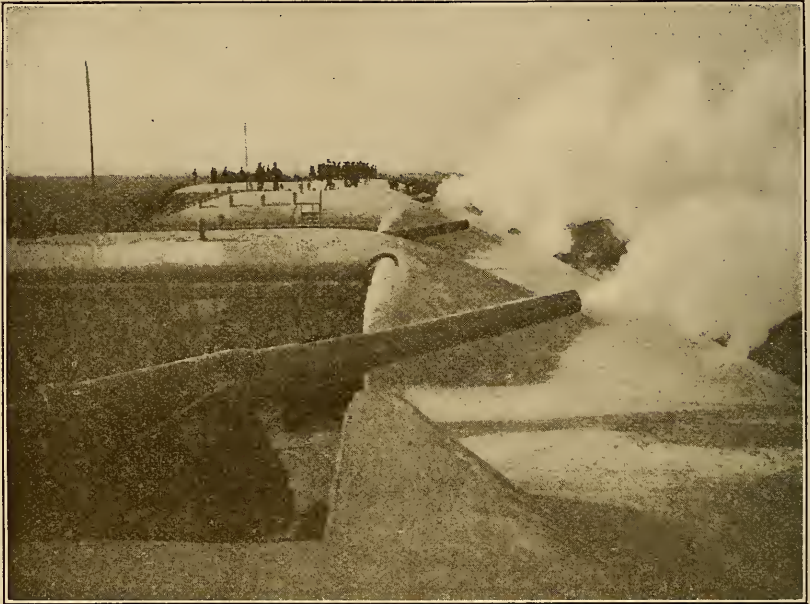


PYRREDON.



THE ARGENTINE BATTLE SHIPS GARIBALDI, BELGRANO, SAN MARTIN, AND PYRREDON, WITH CREWS MUSTERED, SALUTING THE PRESIDENT.

A fact worthy of note throughout the maneuvers is that the majority of the rank and file engaged were youths of 20 and 21, rendering their two year's service as required by law. Recruited almost wholly from the inland Provinces, they take to the sea as though born to it; a life on the Pampas or among the Cordilleras makes an excellent preparation for the stern discipline of a man-of-war.



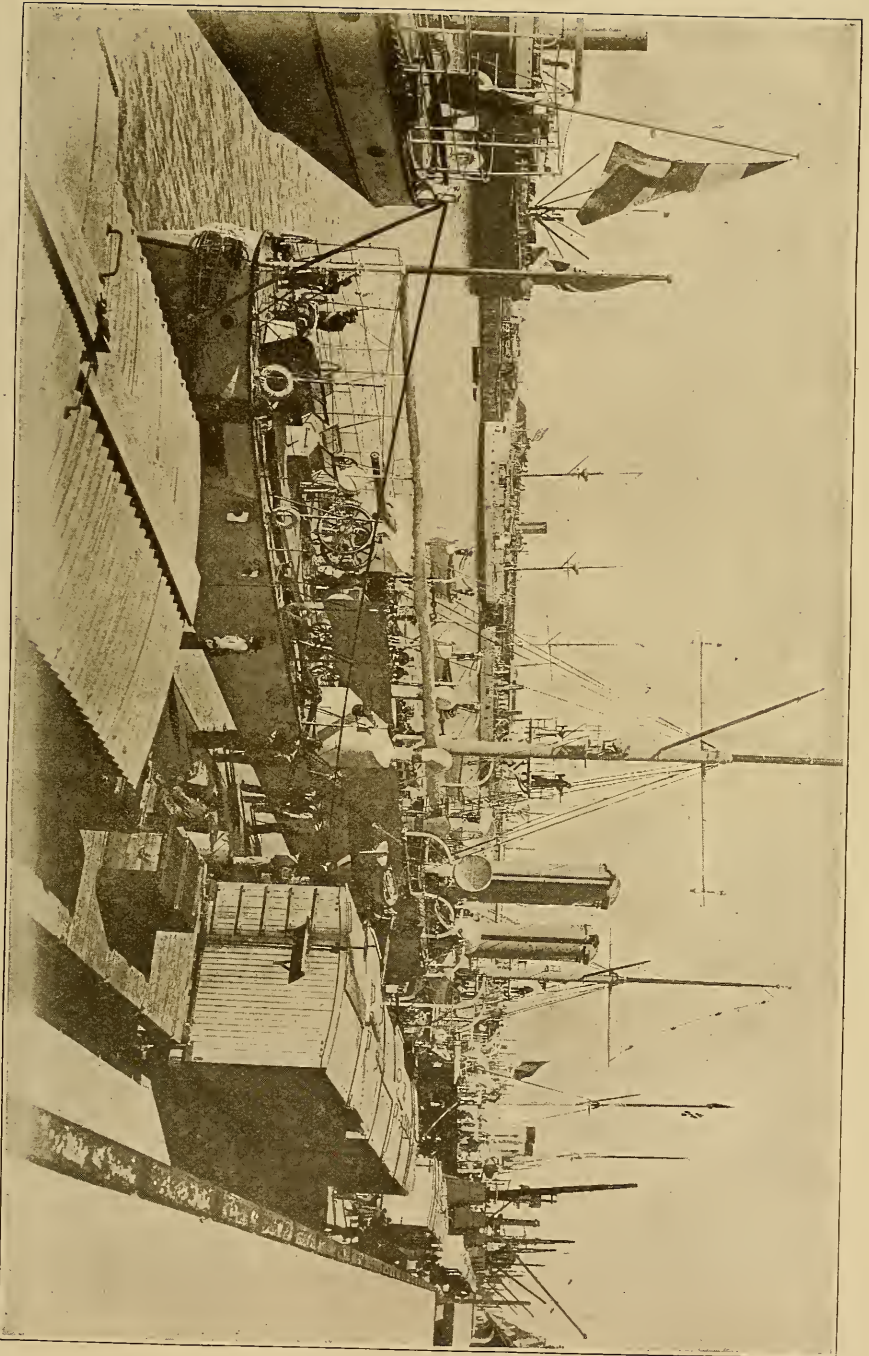
TARGET PRACTICE. BATTERY VI, ON SHORE, DISCHARGING ITS FOUR CM. GUNS AT A TARGET TOWED BY A TUG.

The high averages of the gunners probably are due in great part to previous training of the eye with rifle or lasso.

Besides being thus excellently manned, the perfect precision and accuracy of movements observable throughout shows the fleet to have been equally well equipped.

In a word, the review evoked from those who saw it a high tribute of praise for all the Departments of the Argentine Navy.





WARSHIPS AT THE DOCKS, BUENOS AIRES.

A very imposing scene of Argentine warships at the extensive docks of Buenos Aires. It was due to the genius of the late Gen. Domingo F. Sarmiento, President of the Argentine Republic from 1868 to 1874, that the foundations of Argentina's splendid modern navy were laid and the harbor of Buenos Aires was deepened and widened. During his régime also the construction of modern docks was begun.

# THE QUITO EXPOSITION

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THE exposition opened in Quito on August 10, 1909, has awakened more than usual interest, not only throughout Ecuador but also in the neighboring Republics and the United States.

Active participation on the part of sister nations has been assured by the erection of buildings devoted to a display of the products of the respective countries, and the completion of the Guayaquil-Quito Railroad has placed the capital of Ecuador in easy reach of the coast both for passengers and exhibits.



Transporting the United States Government exhibits in bullock carts from the railroad station at Chimbacalle to the Exposition Grounds.

The United States has displayed particular activity in preparing to share in Ecuador's national celebration of her independence. On June 11 the U. S. S. *Saturn*, which transported the United States exhibits from Panama to Guayaquil, was cordially welcomed by the fleets in the harbor, being the first ship flying the American flag seen in Ecuadoran waters for a long time. The exhibits, prepared in Washington under the supervision of Commissioner-General WANDS, reached the exposition grounds in good condition in spite of the many transshipments to which they had been subjected.



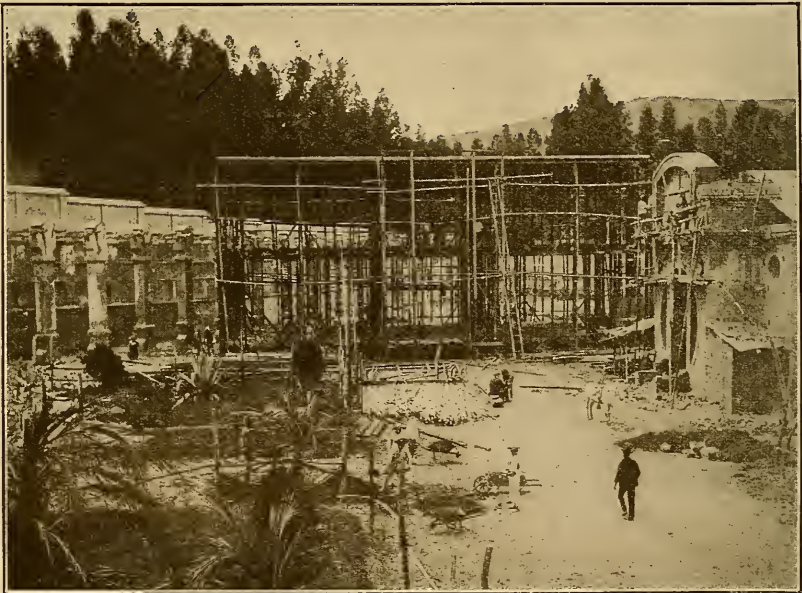


(Photo by Harris & Ewing.)

HON. ERNEST H. WANDS,

Commissioner-General of the United States to the National Exposition of Ecuador.

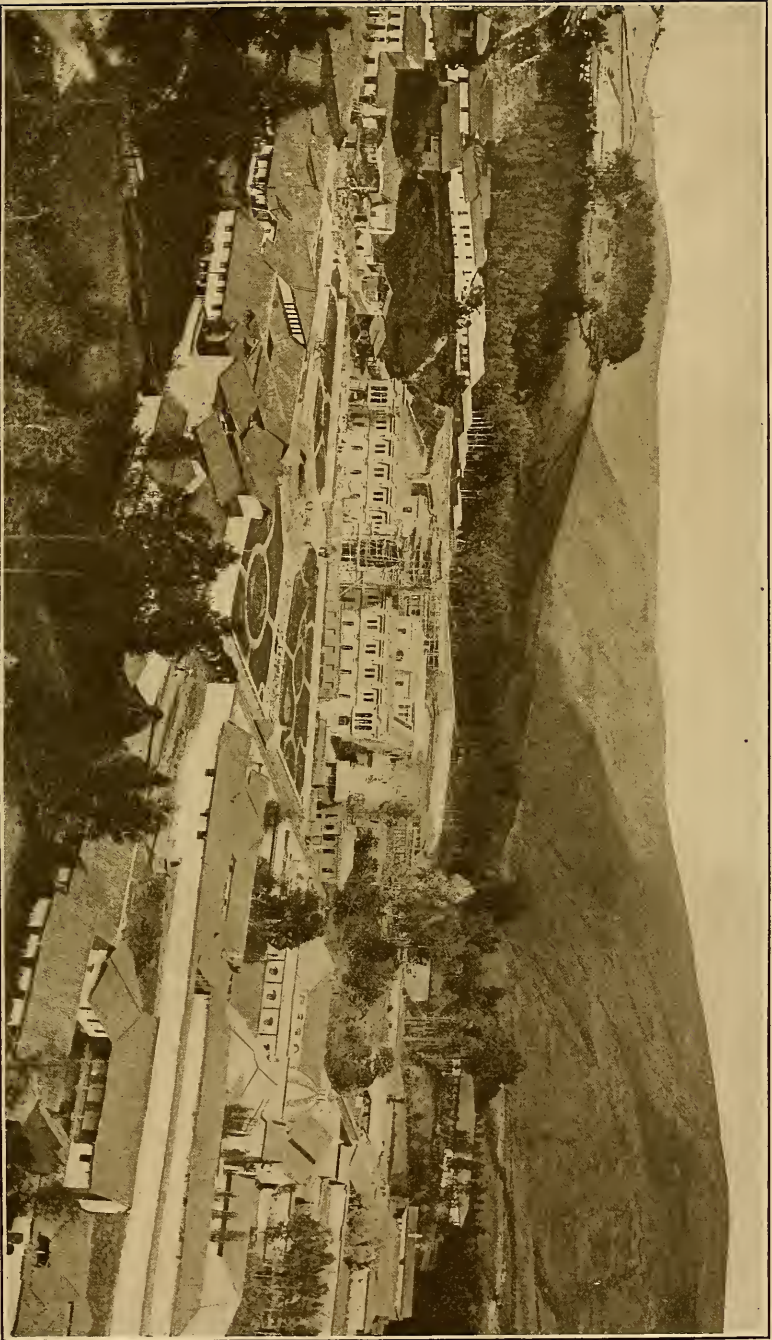
In addition to an adequate display of the leading features of United States development through the installation of the exhibits in a specially designed building, an object lesson in the methods of national progress has been provided through a complete motion-picture apparatus. By this means, life in the northern Republic—the system of receiving immigrants, of cultivating the soil, of manufacturing raw materials, amusements, etc.—is to be depicted for the benefit of Ecuador's people. From the International Bureau an interesting souvenir is to be distributed in the form of a postcard bearing the flags of the Republics of America, 50,000 of which have been shipped.



The United States Government Building at the National Ecuadorian Exposition, showing progress of construction. Photo taken June 15.

Of the status of the grounds surrounding the exposition and the approach thereto, Commissioner-General WANDS reports that the northern terminal of the Guayaquil and Quito Railroad is at Chimbacalle. This is really a part of Quito, but it is intended only as a temporary station until the municipality decides on a more convenient terminal.

The road from Chimbacalle to the exposition site is, like all highways in and around Quito, rather hilly, and though the grades have recently been lessened by some deep cuts, much work remains to be done in order to facilitate transportation of goods from the railroad to the center of the city. Passengers are carried to and from the



(Photo by Dole.)

BIRD'S-EYE VIEW OF THE BUILDINGS OF THE NATIONAL ECUADORIAN EXPOSITION FROM THE PANACILLO, QUITO, JULY 7, 1909.



station in automobiles. The transportation of freight, however, is still in the primitive stage; milk, forage, and other agricultural produce are still carried along the road on the backs of mules, and long trains of these animals may be seen at any time during the day. A few two-wheeled carts are employed for hauling larger pieces of freight to the stores in Quito. The last steep hill on the way to the exposition grounds is now being macadamized under the direction of the Ecuadoran Government, and its condition for heavy traffic has been greatly improved. With the extension of the excellent road improvements that are now being undertaken by the Government, this highway will soon be in first-class condition, and the transportation of freight to the stores in Quito will be greatly facilitated.



The Ecuadorian Building at the National Ecuadorian Exposition. Photo taken July 1.

The city of Guayaquil is some forty-odd miles up the Guayas River. PIZARRO entered the harbor of Guayaquil on his first and second expeditions, although no attempt to found a settlement was made until after his return from Spain with official authority to seize and hold the new country. On his third voyage he camped on the island of Puna, in the Gulf of Guayaquil. All steamers going to Guayaquil to-day anchor off that island to take on a pilot and customs officials.

Quito, the capital of Ecuador, is almost on the equator and has an altitude of 9,400 feet. For years it was one of the most isolated cities in South America, but a few months ago the people celebrated the completion of the railroad connecting this ancient Inca city with

the coast. Following the line of the railroad, the distance from Guayaquil to the capital is 286 miles.



View of the buildings at the National Ecuadorian Exposition; the Colombian Building on the right, the Chilean Building on the left, and the Ecuadorian Building in the background. Photo taken July 1.

When the Panama Canal is opened to navigation, the water route from New York to Guayaquil will be 2,864 miles. At present freight shipped by way of Cape Horn is subject to a voyage of 11,470 miles.



# DIPLOMATIC INSTRUCTION

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**J**UNE 1, 1909, the Department of State in Washington undertook a new method in dispatching to their posts the newly appointed representatives of the Government of the United States in the diplomatic and consular services. The reorganization act of April 5, 1906, effected a radical change for the better in the consular system; the scarcely less important executive order of June 27, 1906, and the regulations of the Department of State based thereon, mark an epoch in consular history. Changes of this character, radical as they proved themselves to be, produced a system that was intended to elevate these services into careers commensurate with their importance. The interest displayed by Senator ROOR when he was Secretary of State gave increased vigor to the demand that diplomatic and consular officers must adequately represent the dignity and rank of the United States in the world's work; he introduced many reforms and encouraged those officers already appointed to a praiseworthy activity. Secretary KNOX brought his energy and farsightedness to this field of his new duties and perpetuated the plans already instituted during the former régime.

Nevertheless, it was discovered that, according to standards recognized by all the most progressive and experienced nations, there was still one step which would add materially to the efficiency and preparedness of those who were beginning their diplomatic or consular careers. This addition to the routine already established—the preliminary examination under rules analogous to civil-service appointments, and designation to positions only after these examinations had been successfully passed—was an intermediate step put into active operation by Secretary KNOX with the class just ready on the date above mentioned, June 1, 1909.

The word "class" is used intentionally, because the formation of the two bodies, the appointees to vacancies in the diplomatic and consular services, was as systematically arranged as it is in the military and naval academies. On June 1, 1909, the Department of State of the United States began to give instruction in rules and regulations, diplomatic usage, international law and official custom, and other matters pertaining to the services, to these appointees.

For the diplomatic corps, whose term extended through the month of June, special attention was laid upon such questions as would be frequently brought before them. Subjects of international law, national and international conventions, maritime conferences, received particular emphasis. Assistant Secretary of State HUNTINGTON WILSON and Mr. JOHN GREGORY, Jr., outlined the course of



(Photo by Harris & Ewing.)

STATE DEPARTMENT OFFICIALS AND RECENTLY APPOINTED CONSULS OF THE UNITED STATES OF AMERICA.

1. James Barelay Young, Pennsylvania, American Consul Assistant.
2. Roger Culver Tredwell, Indiana, American Consul Assistant.
3. Charles A. Holder, Colorado, American Consul, Rouen, France.
4. Hon. Wilbur J. Carr, New York, Chief Clerk of the Department of State.
5. Hon. Huntington Wilson, Illinois, Assistant Secretary of State.
6. Hon. Herbert C. Hengstler, Ohio, Chief of the Consular Bureau.
7. Augustus E. Ingram, California, American Consul, Bradford, England.
8. Henry F. Coffin, Pennsylvania, American Consul, Mazatlan, Mexico.
9. John A. Ray, Texas, American Consul, Maskat, Oman.
10. P. Emerson Taylor, Nebraska, American Consul, Port Louis, Mauritius.
11. Fred C. Slater, Kansas, American Consul, Sarnia, Ontario.
12. George B. Schmuicker, Florida, American Consul, American Consulate, London, England.
13. Cornelius Ferris, Jr., Colorado, American Consul, Asuncion, Paraguay.
14. Benjamin F. Chase, Pennsylvania, American Consul, Leeds, England.
15. Ralph C. Busser, Pennsylvania, American Consul, Erturt, Germany.
16. Alexander V. Dye, Missouri, American Consul, Nogsales, Mexico.
17. Lucien N. Sullivan, Pennsylvania, American Consul, La Paz, Mexico.
18. Samuel MacClintock, Kentucky, American Consul, Tegucigalpa, Honduras.
19. Frank Deadyeyen, Alabama, American Consul, Charlottetown, Prince Edward Island.
20. Marion Letcher, Georgia, American Consul, Acapulco, Mexico.
21. Maxwell C. Woodhead, Pennsylvania, American Consul, St. John, New Brunswick.
22. Albert W. Robert, Florida, American Consul, Algiers, Algeria.
23. Robert Frader, Jr., Pennsylvania, American Consul, Valencia, Spain.
24. Leo J. Keena, Michigan, American Consul, Chihuahua, Mexico.
25. Charles K. Moser, Virginia, American Consul, Aden, Arabia.
26. Frederick SImpich, Washington, American Consul, Bagdad, Turkey.
27. Henry C. A. Damm, Tennessee, American Consul, Cornwall, Ontario.
28. Andrew J. McConico, Mississippi, American Consul, St. John's, Quebec.



studies and delivered lectures to the appointees. Experts in several lines addressed them, and they were expected to make themselves familiar with the departments of the Government and personally to visit the various bureaus for the purposes of learning their working methods.

For the consular corps, whose term extended through the month of July, a very careful programme was prepared and printed, as this was the first time that they had ever, in such a formal way, been assembled for actual class-room work. This programme included a review of the history of the consular service, study of consular regulations with regard to privileges and powers, passports, citizenship, merchant vessels and relief of seamen, fees, accounts, immigration, quarantine, inquiries and reports. The ground was thoroughly covered by examinations, while sample reports and dispatches were written on the typewriter. Associated with Mr. AUGUSTUS E. INGRAHAM were Mr. WILBUR J. CARR, Chief Clerk of the Department of State, and Mr. HERBERT C. HENGSTLER, Chief of the Consular Bureau of that Department, all of whom had been instrumental in establishing the courses. Lectures and addresses were delivered also by Mr. SHAND, Chief of the Bureau of Appointments; Doctor BUCK, Chief of the Bureau of Indexes and Archives; Mr. FLOURNOY, Chief of the Bureau of Citizenship; Mr. CHAMBERLAIN, Commissioner of Navigation; Mr. WERBER, of Auditor's Office; Mr. MORRISON, Chief of the Bureau of Accounts; Mr. BAKER, of the Far-Eastern Division; Mr. JOHN BARRETT, the Director of the International Bureau of the American Republics; Mr. O. P. AUSTIN, Chief of the Bureau of Statistics, Department of Commerce and Labor; Mr. OSBORNE, Chief of the Bureau of Trade Relations; Doctor SCOTT, Solicitor for the Department of State; and Doctor WILEY, Department of Agriculture. There were visits to the Secretaries of the Department of State, to the other Departments, and they were cordially received by the President, who had all along manifested a cordial interest in their work. The final address was given these fortunate Consuls of the United States of America, as their title is henceforth to be, by Mr. CARR.

They are surely to be congratulated, and the BULLETIN wishes to voice the general opinion that the United States, whom they are to represent, and the countries to which they are accredited will be drawn into closer relations of friendship and commerce by these first beneficiaries of the new system. As many of these Secretaries and Consuls have received appointments to positions in Latin America, the BULLETIN will be able to follow them in their future career. It takes the opportunity, therefore, of wishing them Godspeed on their journey, a profitable field for their energy, and to assure them that on their return they will always be welcome in the International Bureau of the American Republics.



(Photo by Harris & Ewing.)

OFFICIALS OF THE DEPARTMENT OF STATE AND RECENTLY APPOINTED DIPLOMATIC OFFICERS OF THE UNITED STATES OF AMERICA.

29. Franklin Moti Gunther, Virginia, Third Secretary of Embassy, Paris. 30. Charles Campbell, Jr., Virginia, Third Secretary of Embassy, Tokyo. 31. Roland B. Harvey, Maryland, Second Secretary of Embassy, Vienna. 32. Norval Richardson, Mississippi, Second Secretary of Legation, Havana. 33. Philip Bayard, Delaware, Secretary of Legation, Tangier. 34. Frank D. Arnold, Pennsylvania, Secretary of Legation, Guatemala. 35. Sheldon Whitehouse, New York, Secretary of Legation, Caracas. 36. G. Cornell Tarler, New York, Secretary of Legation and Consul-General, Bangkok. 37. George Andrews Moriarty, Rhode Island, Third Secretary of Embassy, Mexico. 38. Hon. Huntington Wilson, Illinois, Assistant Secretary of State. 39. Hon. Alvey A. Adee, District of Columbia, Second Assistant Secretary of State. 40. John H. Gregory, Jr., Louisiana, Second Secretary of Embassy, Constantinople. 41. J. H. Stabler, Maryland, Secretary of Legation, Quito. 42. Hon. William F. Sands, District of Columbia, Minister to Guatemala. 43. Balkum Schoyer, Pennsylvania, Second Secretary of Embassy, Rio de Janeiro. 44. Alexander Benson, Pennsylvania, Secretary of Legation, La Paz. 45. J. Butler Wright, Wyoming, Secretary of Legation, Tegucigalpa. 46. Alexander R. Magruder, Maryland, Secretary of Legation, Montevideo. 47. Francis M. Endicott, Massachusetts, Secretary of Legation, Santo Domingo. 48. William P. Cresson, Nevada, Secretary of Legation, Lima. 49. Capt. George T. Summerlin, of the Division of Information, Department of State.

# CUBAN DEVELOPMENT .:

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THE United States correspondent <sup>a</sup> of "*La Lucha*," one of the oldest papers of Havana, in contributing the following interesting information regarding the Cuban Republic, states that the possibilities of the island are daily awakening greater interest from the viewpoint both of investors and health seekers. He adds that never before in the history of the country have so many successful financial men from the New York world of finance been among the visiting public.

Continuing with a summary of the things which have been done in the past year, the correspondent tells of the new roads through the center of the island and said that with one stretch of roadway in Santa Clara Province just at the Matanzas Province line, completed, it would be possible to go from Mantua, the extreme western point of the island, to the eastern limits of Santa Clara Province, a distance of 325 miles. President GÓMEZ promised Governor MAGOON that this uncompleted section of roadway would be one of the first works undertaken, as soon as the new Department of Public Works was in smooth running order.

In Pinar del Rio, the \$100,000 government building, the "Audiencia," stands as a mark of progress, as it is a work of modern building type. In Havana, the new fire department headquarters, marking the establishment of the paid fire department, are noticeable. The improvements in the city hospitals and the penitentiary on Principe Hill will make the buildings valuable for many years to come. At Mazorra, the national insane asylum, the new buildings, and the repairs to the old ones show the keen interest the American officers had in the work of making the lives of the unfortunate more bearable.

At Matanzas the dredging of the harbor and the opening of the new custom-house mark a new era of progress for that old city. This port is an important sugar-shipping point. The new buildings in the city, in general, and the opening of the immense storage plant of the Matanzas Terminal and Warehouse Company, which recently acquired the molasses interests of R. Truffin & Co. for \$3,000,000, indicate a wave of prosperity of good proportions.

Cienfuegos, after a battle royal on the sewer and waterworks question, is now in the hands of the contractors for that essential work. The docks' improvements there are indicators of the anticipated business now about due in that whole section. The new bank building of the National Bank of Cuba has been opened for business there.

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<sup>a</sup> EDGAR W. DENNISON, Secretary Publicity League of Cuba.

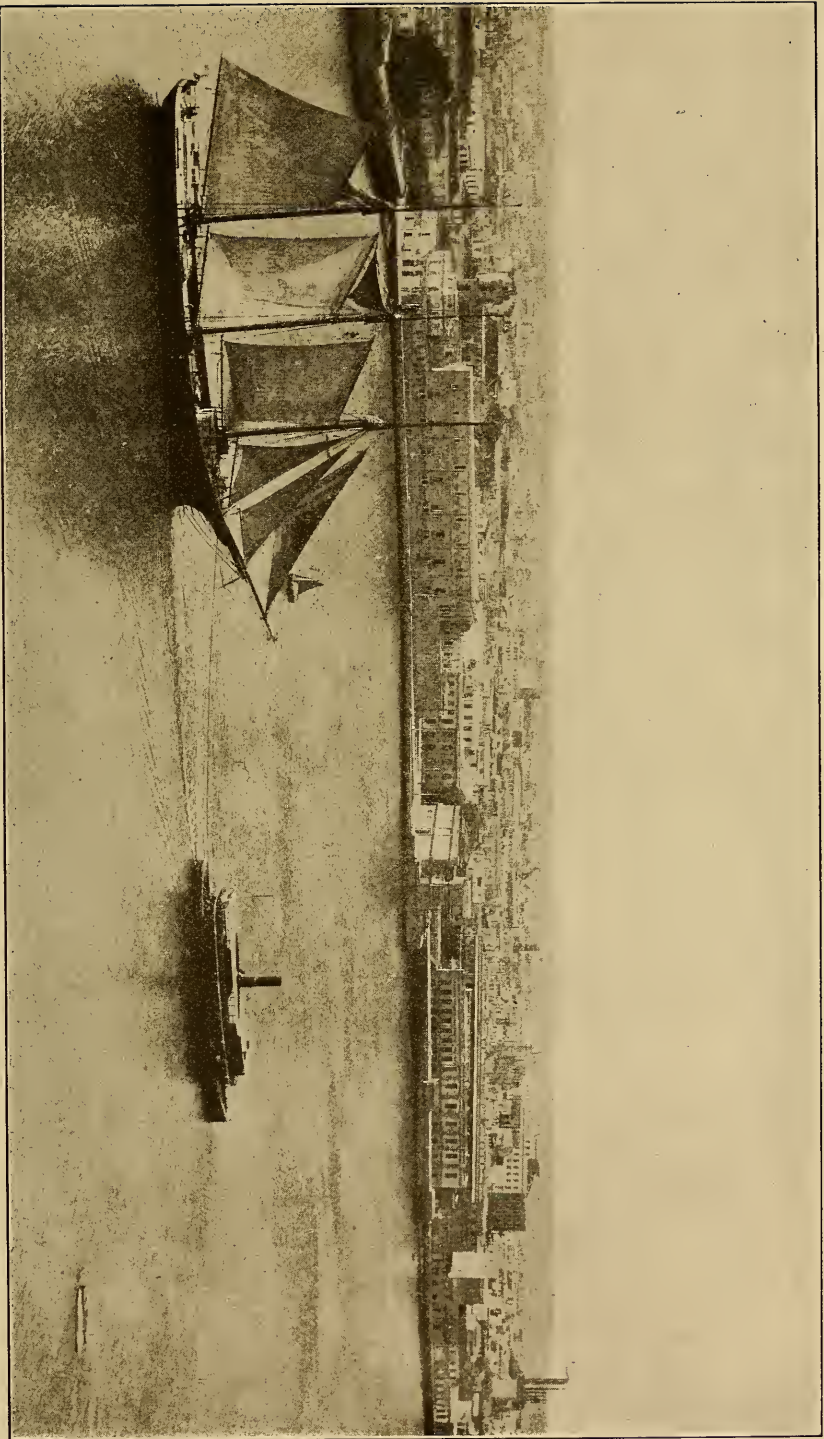
Santa Clara has had many miles of new calzadas or highways added to the surrounding country, and these have been a great help to the people, in many cases reducing the cost of living one-half, according to the statements of the natives. A new concrete government building on the square will house all the provincial, civil, and municipal officers. This building will tend to expedite the transaction of all government business on account of the departments being formerly located in half a dozen different buildings in the city. The installation of a new electric light plant, the enlargement of the gas plant, the installation of the ice plant, and the proposed street-railway system all tend to brighten up that city.

Camaguey, which is the most American of the cities of Cuba, outside of Santiago de Cuba, is continually developing. The location of the city, at the middle distance point on the Havana-Santiago run, and the finest hotel on the island outside the city of Havana, make it a good stopping place for the tourists. The waterworks system will soon be in operation throughout the city and the surrounding section near the mains.

Santiago de Cuba probably presents as a whole as much progressive spirit as any city on the island, largely on account of the cooperation of the Cuban railroad officials with the provincial Governor MANDULEY and the municipal officers as well. The new quarter-million-dollar custom-house is ready for occupancy. The new building of the National Bank of Cuba has been opened for business, and the celebration was entered into by the whole city.

The National Bank of Cuba last year handled \$671,000,000 in cash in and out of its Havana main office, the money being represented by Spanish gold and silver, French gold, English gold, and American gold and silver. The amount represents more in bulk in cash than any bank in New York City handled last year. This does not include the cash passing in and out of the fifteen branch banks on the island. It does not include the checks handled through the foreign exchange department. Their new building in Havana has an average of 3,000 people per day who use the elevators.

The railroads in general are doing things in spite of the fact that the sugar crop of last year was not up to the standard of former years. The United Railways of Havana are almost through with the relaying of their heavy steel between Mantanzas and Santa Clara on the route of the Havana-Santiago express. The Western Railway of Havana has surveys completed to the Remates section of the Province of Pinar del Rio, where the Havana Tobacco Company have 225,000 acres of land planted with their standard crops. This railroad also has extensions planned to the United States naval reservation on the north coast, Bahia Honda and also Cabanas. The Cuban Cen-

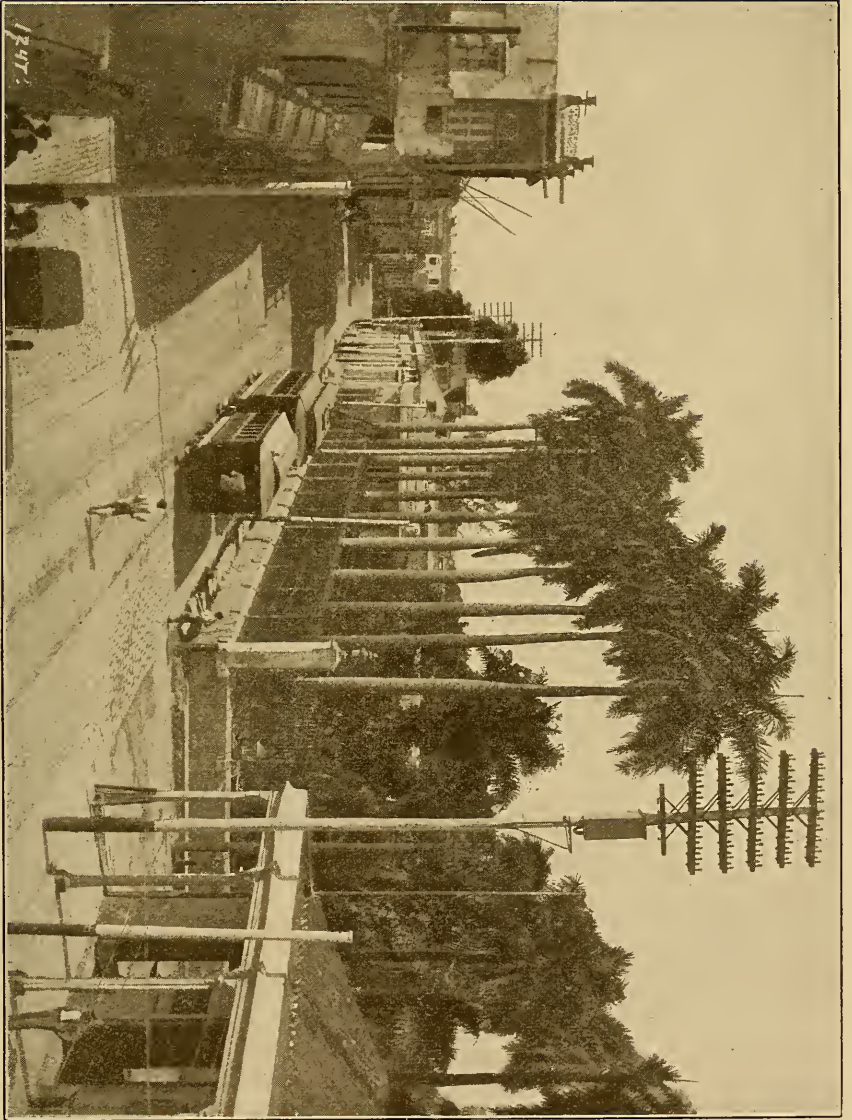


(Miller Photo.)

VIEW OF HAVANA AND THE WATER FRONT FROM CABANA FORTRESS.

tral Railway, which operates in the central section of the island, has made more extensive preparations for the handling of the business of this year than ever before in the history of the road. They have planned many extensions to nearby sugar mills, and in many cases the lines have been completed. Their new dock facilities at Sagua la Grande, Port Isabella, and at Cienfuegos are now in service. The Cuba Railroad has replaced 200 small bridges and has made extensive repairs to the permanent way. They have extensions under way to Bayamo and Manzanillo, the line to Bayamo already being in operation to Palma Soriano, a distance of about 20 miles from San Luis, the junction point for the extension. They have built half a dozen new railroad stations in the past year, the standard concrete station being used. At Santiago de Cuba the new concrete passenger station and the extensive freight stations and docks attest the permanence of the improvements being made by this system. The officers of the Cuba Railroad do not seem to regard the situation in Cuba as anything but good, their recommendations for improvements on the line and new industries to be fostered by the railroad bearing out the stand they take in the matter. At Antilla, on Nipe Bay, where the terminal warehouses and docks have only recently been completed, work has already started on tripling the present number of warehouses and docks. This terminal has had a steady increase in tonnage and it is apparent that other large interests are arranging to locate on Nipe Bay.

The farewell trip of Governor M<sub>A</sub>GOON to the eastern end of the island on his last look at the improved conditions served to bring out the importance of the mining industries in the Province of Santiago de Cuba or Oriente, recently named. The trip to Felton, on Nipe Bay, where the iron-ore deposits of the Spanish-American Iron Company are being developed, was one of the most enjoyable of the ten days' journey. It was my good fortune to be one of the guests of the Governor, and to me this end of the trip was the best. The iron deposit on which the company is spending over \$5,000,000 to develop was found after the best mineralogists in the world had investigated the properties and reported ore of insufficient quantities to pay for working out. Almost the whole of the \$5,000,000 has been expended, the building of 3 villages, 13 miles of railroad, 25 bridges (one 720 feet long), loading incline railway system, drag-line system for economically loading the iron ore, docks and unloading system, power house, and various other important parts for prompt handling being the items on which this sum was spent. The capacity per day under the present schedule of operation is 12,000 tons, it being possible to take up three 60-ton cars at one time on the incline, the loaded cars going



A STREET IN THE SUBURBS OF HAVANA. There are few frame houses, the majority being built of mampostería, a combination of cement and stone.

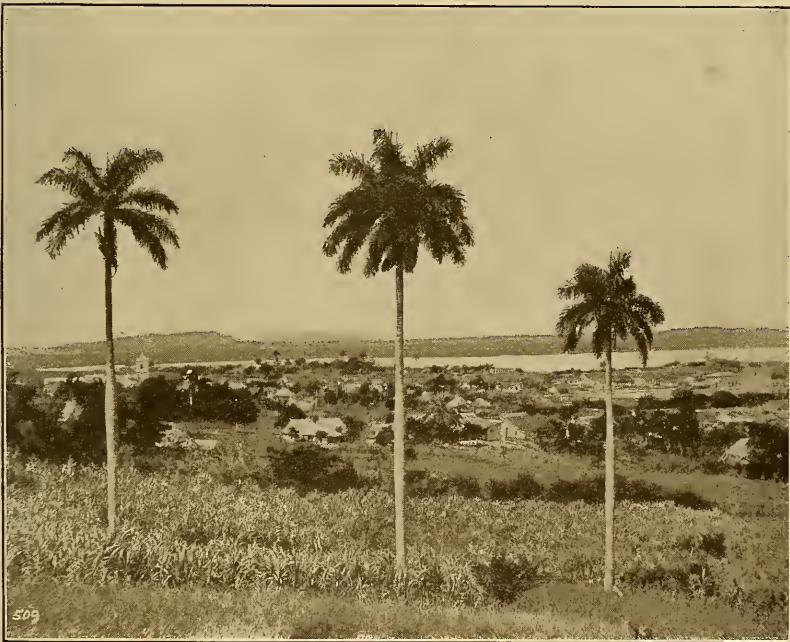
down pulling up the empty cars. The ore deposit is on a high tableland 11 to 13 miles back from the terminal docks, on Nipe Bay, at Felton. JENNINGS S. COX, Jr., the general manager of the Spanish-American Iron Company, was the discoverer of the iron-ore deposit, which has been proven by the boring tests to contain more than 600,000,000 tons of iron ore. No discovery of iron ore in the history of the world has been as important as this discovery, coupled with those at Moa containing a like amount of iron ore, and also one at Baracoa, which is said to contain 600,000,000 tons, making a total in the three deposits of 1,800,000,000 tons of iron ore, in the Province of Santiago de Cuba, not considering the amount contained in the older discoveries, which are in operation there. The old copper mines of this same province have been worked for the past hundred years, and many of the old iron mines have been in operation for the past fifty years. The recent discoveries of gold in this province are interesting, and in one case the Santiago-Holguin Gold Mining Company, under the direction of JOSE M. GOVIN, the editor of the Spanish newspaper "*El Mundo*," in Havana, has been producing from \$18,000 to \$20,000 per month for the past year, the gold being shipped in bars from Havana to New York.

Out of the 187 sugar mills on the island there are 170 active, the crop this year giving promise of good returns. The estimated amount of sugar production for this year is set at 1,500,000 tons. The cane in nearly all the Provinces shows a decided gain, and there are a number of estates on which the planting has increased the production to a marked degree. Santiago, or "Oriente Province," as it is called to-day, shows the greatest gain in new cane planted, and it will on this account run Havana Province a close second on the sugar production for this season.

First mortgages in Havana and the surrounding country, as well as the interior cities and plantations, show considerable activity. City mortgages on good security with good title are paying 8 to 10 per cent per annum. Country mortgages on tobacco lands and cane lands in nearly all the Provinces pay from 12 to 18 per cent per annum with one-third valuation on the property and the title unquestioned. A recent addition to the financial companies of the city of Havana is a title guaranty company, which is looked upon with marked favor on account of the large number of foreign investors interested in Cuba at this time. A first-mortgage company formed by capitalists from the United States is another of the new financial entrants, the issuance of debenture bonds against the Spanish first mortgages being a feature of the plan proposed to bring in foreign development money, the same as the plan followed in the northwest and southwest United States development. There seems to be a place for just such a company in Cuba at this time.



The success of the Havanese in handling the large crowds for the inauguration and the winter carnival has had much to do with the coming of a big crowd for the winter carnival next year. The newspapers in the United States have been exceedingly kind to the people of the new Republic, and a bureau of publicity has been organized so that news in reference to the island may be issued to the press with a regular schedule and also from reliable sources. The Havanese give full credit to the press for all their publicity, even if it is not absolutely correct.



# MUNICIPAL ORGANIZATION OF THE CAPITALS OF LATIN AMERICA

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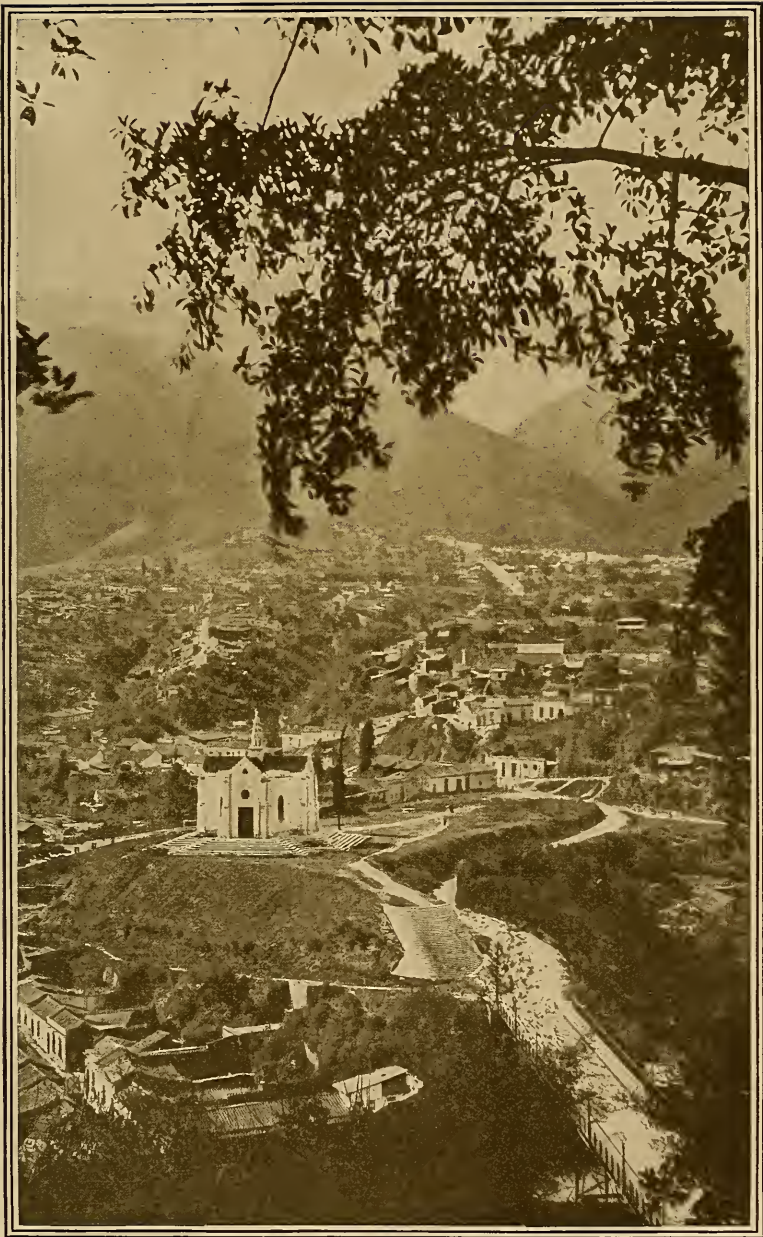
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## CARACAS.

THE capital of the United States of Venezuela deserves to be known better than it is as one of the most charming cities to visit and one of the most healthful and pleasant places of residence on the American Continent. In the Torrid Zone and at no excessive elevation, only about 3,000 feet, it enjoys an almost entire springtime the year around. There is no winter; at the coldest it never approaches nearer than 30° to frost. There is a touch of summer at times, but not the sweltering heat of the Tropics nor even the heat of our Atlantic seaboard cities of the United States, but rather the summer of the south downs of Devon in England. The thermometer may occasionally reach 90° F., although this occurs but seldom. For the most of the year there is only spring, and that is one of the most beautiful little valleys of Venezuela or of any other land.

One may sail around the world, but nowhere else will he find so bold a shore as that presented to the Caribbean on the north coast of Venezuela in the vicinity of Caracas. Here the coast range of mountains rise straight up from the sea from a mile to a mile and three-quarters in height. There are higher mountains than these, but none that looks so high. Mount Naignatá, on the sea front a few miles away from Caracas, is 9,430 feet high. This is the main turret of this cyclopean wall of granite rising sheer from the water's edge. Flanking Naignatá is La Silla, the saddle, second in height, 8,629 feet. Behind La Silla and only 6 miles away from the sea lies Caracas. On the sea front of La Silla and clinging to the foot of the cliff is La Guaira, the seaport. Short as is the distance in a direct line between the two cities, the connecting railway is 24 miles long. It starts winding up the face of the mighty wall with a grade of 4 per cent in a path cut out of the solid rock until it reaches the lowest point in the barrier, a pass of 5,000 feet, over which it goes and descends down into the valley and to Caracas.

The valley is only 3 or 4 miles broad, is watered by four small rivers, three of which, Anauco, Catuche, Caroata, flow into the fourth,



VIEW OF CARACAS, VENEZUELA, LOOKING WEST FROM CALVARIO HILL.

Many of the houses of Caracas are covered with stucco and painted in delicate tints of yellow, blue, red, and green. The buildings are flush with the streets and have no chimneys. Caracas is one of the most picturesque and naturally beautiful capitals of the New World.

the Guaire. Looking from the house tops in the center of the city it seems to be entirely surrounded by mountain peaks, highest on the north rising to 9,000 feet or over and on the south to about half that height.

Caracas is not located wholly in the valley proper, but lies in a pocket of the hills. It is situated on the southern slope of La Silla and extends eastward and westward down into the plain to the Rio Guaire and the true valley. It is very regular in structure, even more regular than the majority of South American cities, which in this respect are far better planned than North American or European cities. The streets of Caracas cross at right angles, running north and south and east and west.



MUNICIPAL THEATER, CARACAS, VENEZUELA.

This large theater, facing a beautiful square and surrounded by lovely gardens, was erected in 1881. It is the property of the city, and has its own electric plant. The interior is handsomely decorated. Its spacious auditorium is richly furnished and has a seating capacity for about 2,000 persons.

With some exceptions the streets are narrow, usually not exceeding 30 feet from curb to curb, but are for the most part well paved with a hard concrete. As in Washington, the streets are numbered and lettered from a central point, the Capitol, so in Caracas the enumeration starts from the Cathedral or northeast corner of the Plaza Bolivar, but this beautiful little park in the Venezuelan capital is nearer the center of that city than is the stately building in the North American capital the center of Washington. From the Plaza Bolivar run, very nearly in a true line with the cardinal points of the compass, four avenues—North Avenue, South Avenue, East Avenue, and West Avenue. To the east of the line of North and South Avenues the streets running parallel thereto are named, on the north of



CATHEDRAL, CARACAS.

East Avenue, First, Third, Fifth Streets North, and to the south of East Avenue, First, Third, Fifth Streets South. To the west of the line of North and South Avenues the streets are numbered in the same manner, Second, Fourth, Sixth, North or South, as they are above or below the line of Avenue West. So also with the streets running east and west. Those to the north of the Plaza Bolivar are numbered First, Third, Fifth East or West, as they may lie east or west of North Avenue, and to the south of the Plaza are Second, Fourth, Sixth East or West, as they may lie east or west of South Avenue.



CENTRAL UNIVERSITY OF CARACAS.

The method of naming the streets is similar to that adopted in Salt Lake City, Utah, with the exception that in Salt Lake the central point being the Temple, the streets running along the four sides of Temple block are called North Temple, South Temple, East Temple (or Main), and West Temple. South Temple and First South Streets in Salt Lake therefore run east and west, while in Caracas, South Avenue and First Street South run north and south and together with North Avenue and First Street North form continuous streets.

To a traveler from the United States Caracas presents an unfamiliar appearance. In parts it is very Old World and very Spanish

in architecture. There is a sameness in the houses, one a little larger or a little smaller, but all more or less alike, with colored walls and tiled roofs. These walls remind one somewhat of Havana, colored as they are in dull oriental blues, greens, yellows, and reds, but the material is different. In Havana it is solid stone foundation; here it is most often brick covered with mortar or a tinted stucco.

In Caracas the houses often present their worst side to the street. The interior may be quite handsome, with sumptuously furnished drawing rooms, parlors, library, and dining rooms, and a patio to excite admiration with fountains, often works of art and roses and palms, oleanders, and orange trees, but the exterior of the house will be most unattractive, low, and squat, but often covering a considerable area of ground. The Caraqueño builds his house not for the stranger and passer-by, but for himself and friends who enter it. There is even an echo of the old time when a man's house was his castle, and the English and French freebooters cruised along the Spanish Main. This dread of attack was no idle fear, for in 1595 Sir FRANCIS DRAKE and in 1679 the French sacked Caracas. DRAKE carried off more than a million dollars in treasure and destroyed several times this amount in his three days' occupancy of the city. Since these times there has been more than one occasion where every house in the city was a fortress armed and provisioned against attack.

Venezuela is a federal republic like the United States, Mexico, Brazil, and Argentina, a union of sovereign States. Caracas is the capital of the union, and, like Washington, Buenos Aires, Rio de Janeiro, and Mexico, is not located in any one of the States composing the union, but in a Federal District especially set apart as the seat of government. The executive of the district is a governor, appointed by the President of Venezuela, and the city has a municipal council elected by the qualified voters resident therein. The municipal council consists of eight members elected one from each of the parishes into which the city is divided. The governor is the presiding officer, but in his absence the president of the council, elected from among its members by the council, takes his place. The present governor of Caracas is AQUILES ITURIBE. Unlike the District of Columbia, in the United States, the Federal District of Venezuela—and this is also the case in Mexico, Brazil, and Argentina—has its proportionate representation in the National Congress. There are marked differences in the system of government for the federal districts in the five federal republics. In Washington the form is the least democratic, citizens of the District of Columbia not exercising the right of suffrage for any purpose, nor having any voice in government, either as to measures or men. In Rio the form is the most democratic, the Federal District of Brazil having in form most of the attributes of a State of the Union. In reality the differences are more on the

surface than in the substance. In all cases the President and National Congress are in effect the real government, the local agents acting in an advisory capacity merely, and being often appointees of the central power. In Caracas the President of Venezuela is the source of government. Among the powers of the President enumerated in the constitution is: "To administer the government of the Federal District according to law and to act therein as the chief civil and political authority." It is also provided that everything regarding the general administration of the national government not vested by the constitution in any other authority is within the jurisdiction of the President.



NATIONAL THEATER, CARACAS, VENEZUELA.

The National Theater was constructed and inaugurated under the administration of President Castro. One side of the building faces Washington Square, in which stands the monument erected by Venezuela in honor of George Washington.

Caracas was founded in 1567 by the Spanish captain **DIEGO DE LOZADA**. Its principal claim to historical distinction is that it is the birthplace of **MIRANDA** and of **BOLIVAR**. Gen. **FRANCISCO MIRANDA**, born in 1752, served with distinction on **WASHINGTON'S** staff and with the patriots in the French revolution and organized and commanded the first serious attempt against Spanish rule in the Western Hemisphere. Gen. **SIMON BOLIVAR**, the most splendid figure in South American history, born in 1783, after first serving under **MIRANDA**, became the general in chief of the forces against Spain and the liberator of Venezuela, Colombia, Ecuador, Peru, and Bolivia.

Caracas is now a city of something less than 100,000 inhabitants, neither very modern nor yet very ancient in appearance, less attractive in buildings, but more beautiful in its environment than most of





BOLIVAR'S STATUE, BOLIVAR SQUARE, CARACAS.

the Spanish American capitals. Surrounded by picturesque mountains and in one of the prettiest little valleys, it has a charm not possessed by more pretentious capitals. The valley of the Guaire is a garden spot and one of the richest in natural fertility in the world. The rich lands are under a high state of cultivation, the cane and coffee plantations beginning at the edge of the city. The valley, somewhat long and narrow, viewed from any elevation, as El Calvario, seems covered with a checkered carpet of green in varying tints, surrounded by soberer-hued hills and mountains and threaded through and through by silver strands of dancing light, the Guaire and its affluents.

The city is lighted with electricity and gas. It has a complete telephone system and other modern conveniences. Some of the avenues are broad and shaded by tropical trees, with here and there handsome buildings of modern architecture, bits of Caracas which compare favorably with the larger and more stately capitals of Mexico, Brazil, Argentina, or Uruguay. A little farther along and the solid built squat houses, with more or less repellent exteriors, carry one back to Paris in the days of the League or Rome under the last of the Tribunes, when a man's house was a fortress and his neighbor an enemy. The contrast of the old and the new is not without charm, and on the whole the city is attractive, sometimes beautiful, and always picturesque. One of the chief charms of Caracas, and to a stranger perhaps its chiefest, is the people themselves. It is no libel on the rest of Spanish America to say that Caracas is the most hospitable spot on the American continent. The Caraqueño is proud of his race, of his city and its history, but proudest of all of its reputation for hospitality to strangers, and determined that this reputation shall not suffer at his hands.

The principal streets of the city are traversed by trolley cars, which reach all the main points of interest and amusement. The chief theaters are the Municipal, the National, the Caracas, and the Calcaño Theater. The first is a large and comfortable building erected in 1881, situated two blocks south of the University, and facing a pretty little square surrounded by gardens. Its outside appearance is elegant and the interior is very beautifully decorated. It accommodates about 2,000 people and is the home of the opera companies subsidized every season by the Government. The National, facing Washington Square, is a new theater erected during the administration of President Castro. It is devoted principally to the drama. The Caracas is the oldest theater in the capital.

The principal square in Caracas is the Plaza Bolivar, in the heart of the city, and containing four handsome bronze fountains. The walks are mosaic and the intervening spaces are little gardens set out with tropical plants and flowers. In the center is the equestrian

statue of BOLIVAR on a handsome granite pedestal. Plaza Bolivar is the place of rendezvous of Caracas society. Twice a week and on holidays in the evenings a military band gives concerts.

Washington Square, opposite the church of Santa Teresa, with very pretty flower plats and some very fine trees, contains in the center a statue of GEORGE WASHINGTON. Pantheon Square, in the northern section of the city, is larger than either the Bolivar or Washington squares. It contains a statue of MIRANDA, the martyr of independence, who died in the Spanish fortress of Ceuta a prisoner of war on July 14, 1816. The Park of Carabobo is named after the



STATUE OF WASHINGTON, CARACAS, VENEZUELA.

This statue is situated in the center of Washington Square. It was unveiled in 1883, at the time of the centennial celebration of the birth of Simon Bolivar.

famous battle, fought in 1821, in which 6,000 patriots under BOLIVAR and PAEZ attacked MURILLO's 9,000 Spaniards, almost impreguably entrenched on the plain of Carabobo, and defeated them in one of the bloodiest battles of American history and the decisive event which shattered forever Spanish power in the western world. The parks is sometimes known as the "Plaza de la Misericordia."

The April Square, or Capuchinos, is a triangular park in the southwestern section of Caracas. It contains a statue of General ZAMORA, one of the founders of the federation, who was killed in the attack on San Carlos in 1859. The Altigracia Park, opposite the church of the same name, contains a statue of Marshal FALCON, the leader of

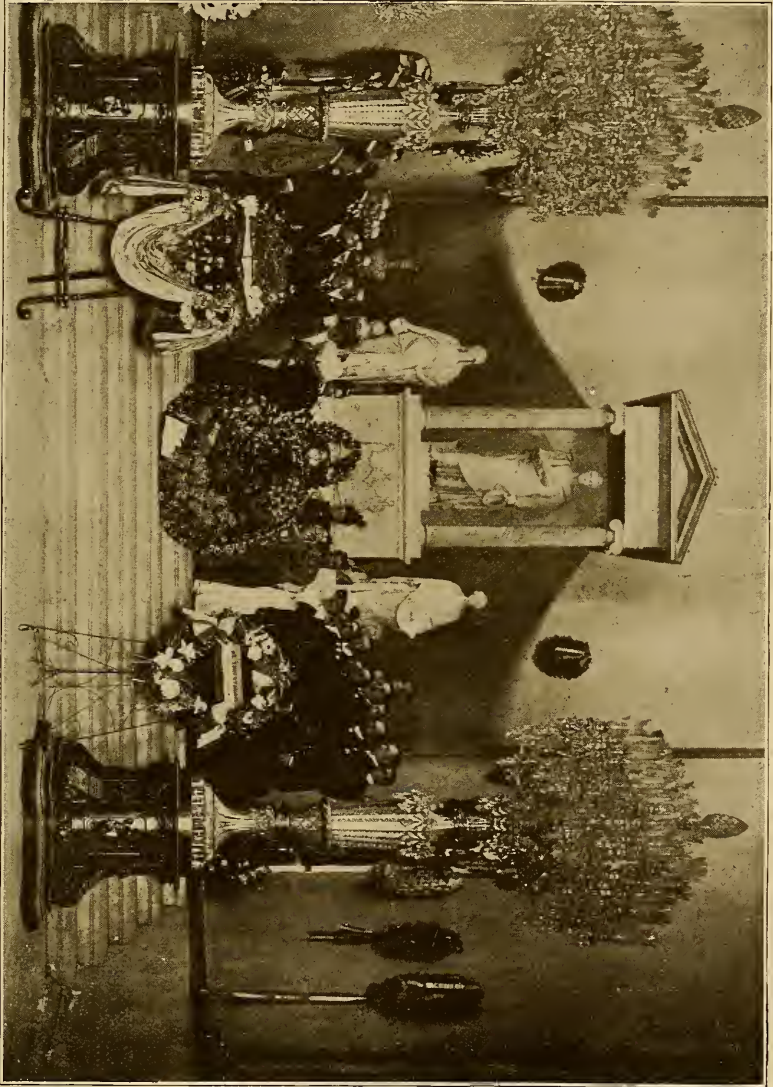
the federation and elected President of Venezuela in 1863. Other less noted plazas are the Candelaria, containing a statue of MONAGAS, the liberator of the slaves in Venezuela, the Pastora, La Merced, and the Ricaurte and Girardot.

The Calvary or Paseo de la Independencia is the real park of Caracas. It is a beautiful hill on the extreme western edge of the city and opposite and south of the station of the La Guaira Railway. It commands the whole city. Winding roads lead past beautifully laid-out gardens and flower plats to points on the crest of the hill where Caracas and the valley of the Guaire may be viewed to the best advantage. Above the steps called Escalinata is a statue of COLUMBUS. Higher up is the statue of BOLIVAR upon a concrete pedestal and leading from this is the most attractive part of El Calvario, the promenade, cement paved, shaded by fine large trees and bordered by a luxuriant growth of tropical vegetation. The German Railway to Valencia passes under El Calvario through a tunnel.

The Avenida del Paraiso extends along the south bank of the Guaire, and is reached by the old iron bridge and other bridges. This section will no doubt in time become the most attractive residence part of the city.

The Federal Palace and the Capitol together occupy the entire block to the southwest of the Plaza Bolivar. They are the two most important modern structures in Caracas. The Federal Palace in Corinthian style occupies the northern half of the block. It is the home of several of the executive departments of the Government and of the High Federal Court. It has two entrances and its most notable feature is the large central parlor called the "Elliptical Salon," used for official receptions. The Salon in its longest diameter is 150 feet and 40 feet at its shortest. The pavement is a very beautiful wood mosaic composed of nearly 40 native woods. The dome shows the battle of Carabobo, the east ceiling the battle of Boyaca, and the west the battle of Junin. Along the walls are portraits of the famous men of Venezuela.

The Capitol is an imposing building of the Doric style of architecture. It contains the halls of the Chamber of Deputies and of the Senate. The interior court or patio between the Capitol and the Federal Palace is quite handsomely laid out. On the east and west are covered archways connecting the two buildings. In the block north of the Federal Palace and facing the northwest corner of the Plaza Bolivar stands the Casa Amarilla, the Yellow House, official residence of the Venezuelan President, now used chiefly for diplomatic receptions and cabinet meetings. The Yellow House is known widely for its three large and beautifully furnished parlors, the yellow, blue, and red, colors of the Venezuelan flag. Before the war of independence the Yellow House was the residence of the Spanish captains-general.



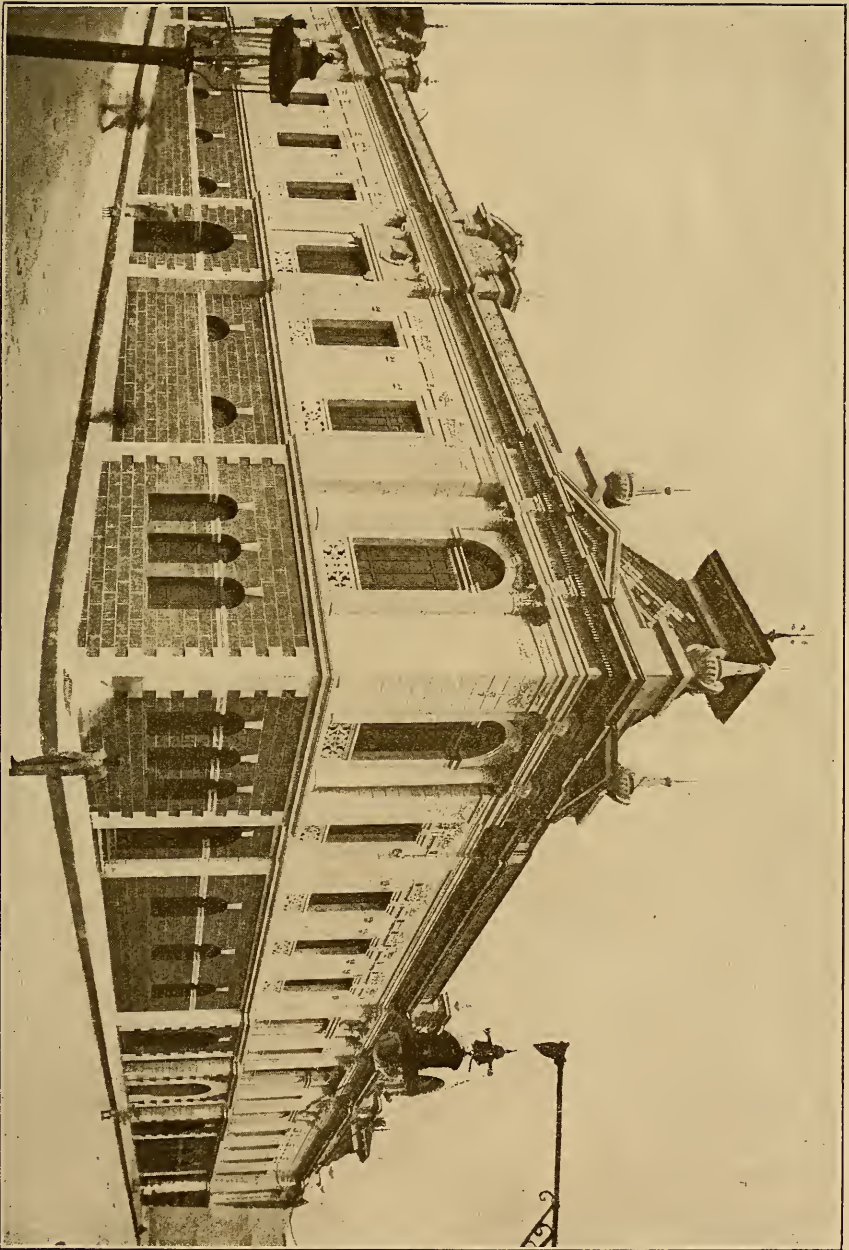
BOLIVAR'S STATUE AND TOMB IN THE NATIONAL PANTHEON, CARACAS.

It has been entirely reconstructed in modern times. The cathedral is located at the northeast corner of the Plaza. Its architecture is of the Tuscan style.

In Caracas it is customary to give locations by esquinas or street corners, each of which has a district name, thus the Capital is located from San Francisco to Bolsa, the Federal Palace from Monjas to Padre Sierra, the Casa Amarilla at el Principal, the Treasury at las Carmelitas, giving always the name of the street corner and rarely the name of the street. The cathedral corner called la Torre is the center of Caracas, the meeting point of the four avenues which divide the city into four sections.

Other of the more important buildings are the exhibition, city hall, the national library, the post-office, the archbishop's palace, and the national pantheon, all except the last in the immediate vicinity of the Plaza Bolivar. The University of Caracas, la Ilustre Universidad Central, is in the block just south of and facing the capitol and occupies the larger portion of the square. It is a beautiful building in the Gothic style. The university is one of the most celebrated and one of the best institutions of learning in Latin America. It was founded in 1696 with nine professional chairs as a college-seminary for ecclesiastics. There was not at this time, nor for many years afterwards, an institution of higher education open to laymen in Venezuela. These, if they were rich enough, might go to Spain or to universities of Santo Domingo of Mexico, or San Marcos of Lima, but for the others there was no opportunity except for rudimentary instruction, since the seminaries at Caracas and Merida were closed to all except students for the priesthood. The citizens of both these towns again and again petitioned for a change, and in 1724 the petition of Caracas was granted and the seminary converted by royal charter into a university, and this charter was confirmed the next year by Pope Innocent XII. The citizens of Merida did not fare so well. Charles IV refused their petition "because his majesty did not think it proper that education should become general in America." The University of Caracas has a fine library of over 50,000 volumes.





THE TREASURY BUILDING, CARACAS, VENEZUELA.

# THE HARD WOODS OF THE AMERICAS

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## MAHOGANY.

THERE is no such thing as a forest of mahogany. The pine tree loves its own kind, and never thrives better than when planted by nature or by man, one tree next to the other, over mile after mile of plain or mountain. Other trees are found in groves or clumps, seeming to form little settlements within the woods. The mahogany tree, however, lives by and for itself alone. It stands solitary of its species surrounded by the smaller trees and dense undergrowth of the tropical forest, rearing its head high above its neighbors.

Mahogany is a popular name for the timber of several unrelated trees, among which are various species of eucalyptus of Australia, of myrtles, and so-called cedars. There is a valley mahogany and a mountain mahogany in the Rocky Mountains, neither of which is the genuine tree. Africa, in addition to the real, exports also a false mahogany, and from East India comes the toona, which often reaches the importer as mahogany, although clearly belonging to another order of plant.

True mahogany is the only species of the *Swietenia mahogani*, and is distinctly a native of tropical America, but occasionally small specimens have been found in southern Florida, and a similar tree, never reaching the height of the American relative, however, has been located in India. This *swietenia* has been planted in southern Florida, southern California, and parts of Mexico, but only as an ornamental tree, however, because it is of such slow growth and requires for full maturity such natural surroundings, that for commercial purposes it would seem impossible of cultivation. It is a giant among even the giants of a tropical forest. It towers sometimes to a height of 100 feet. The trunk alone is often 50 feet in length and 12 feet in diameter, and it divides into so many huge arms and throws the shade of its shining green leaves over so vast an extent of surface that a more magnificent or more useful object is not to be met with in the vegetable world. The precise period of its growth is not accurately known, but as, when large, it changes little during the life of man, the time of its arriving at maturity is probably not less than 200 years. The name "Swietenia" was given to mahogany in honor of the celebrated Baron von SWIETEN, physician to Maria





CUTTING AND TRUCKING MAHOGANY IN HONDURAS.

From an original painting by Passmore. Used as the frontispiece in a classical book on "The Mahogany Tree," published in England in 1850. The illustration, when compared with recent photographs, shows what little change has taken place in the methods employed to-day in bringing mahogany to market.

Theresa. The early Spanish called the tree "Cedrela," a species not unlike the mahogany in many respects, and found also in about the same natural surroundings, but the English mistook that name for cedar, applying it directly to mahogany, the result being that "Spanish cedar" is a term still heard occasionally or read without true understanding in ancient books of travel and discovery along the Spanish Main.

The mahogany tree has a definite locale of growth. The region in which the genuine *swietenia* is most abundant and found to the greatest perfection is comprised between the latitudes 11° and 23° 10' north. Within these parallels lie Jamaica, Cuba, Hispaniola



THE GREAT STUMP OF THE MAHOGANY TREE.

This stump contains some of the finest grain of the entire wood, and in earlier days this was completely wasted, because no means was at hand to saw below the platform that was erected on which the workmen handled their instruments. To-day, however, better tools enable the workmen to obtain better results.

(the Dominican and Haitian Republics), parts of Colombia and Venezuela, all of Central America, in which is of course included the mahogany areas of Honduras, and the lower part of Mexico. The mahogany found nearer the Equator than the limits given is not usually of such a fine quality as that found within the belt just mentioned. Exception to this statement may, however, be made to small areas in Panama and to the more recently exploited sources of supply in Africa. Very fine timber has been exported from Nigeria within recent years, especially since the almost denudation of many of the older sources in the West Indies, but even Nigeria lies north of the Equator and, to that extent at least, follows the rule. It is



THE MAHOGANY TREE IN THE FOREST.

It is a giant among tropic growths. The usual tree of mature age is 4 to 5 feet in diameter, and stands a solid shaft for 50 feet before the first branches are given off. The bark resembles the black oak of the north, and the foliage is like that of the wild cherry. The most valuable wood of the trunk is found just below the first branching.

therefore a curious fact that very little mahogany is found growing south of the equatorial line, although climate and elevation may in many places seem to be quite suited to it.

Two trees to the acre is a liberal estimate for mahogany "finds." More frequently, perhaps, only one tree will be found over a larger stretch of territory, and one instance is on record where a company, after securing a concession to cut the timber within an area of 40 square miles, found only 60 trees, an average of less than one tree to 400 acres. Elevation, too, is an important factor in the tree's value. It prefers low-lying, moist, rich, almost swampy land.

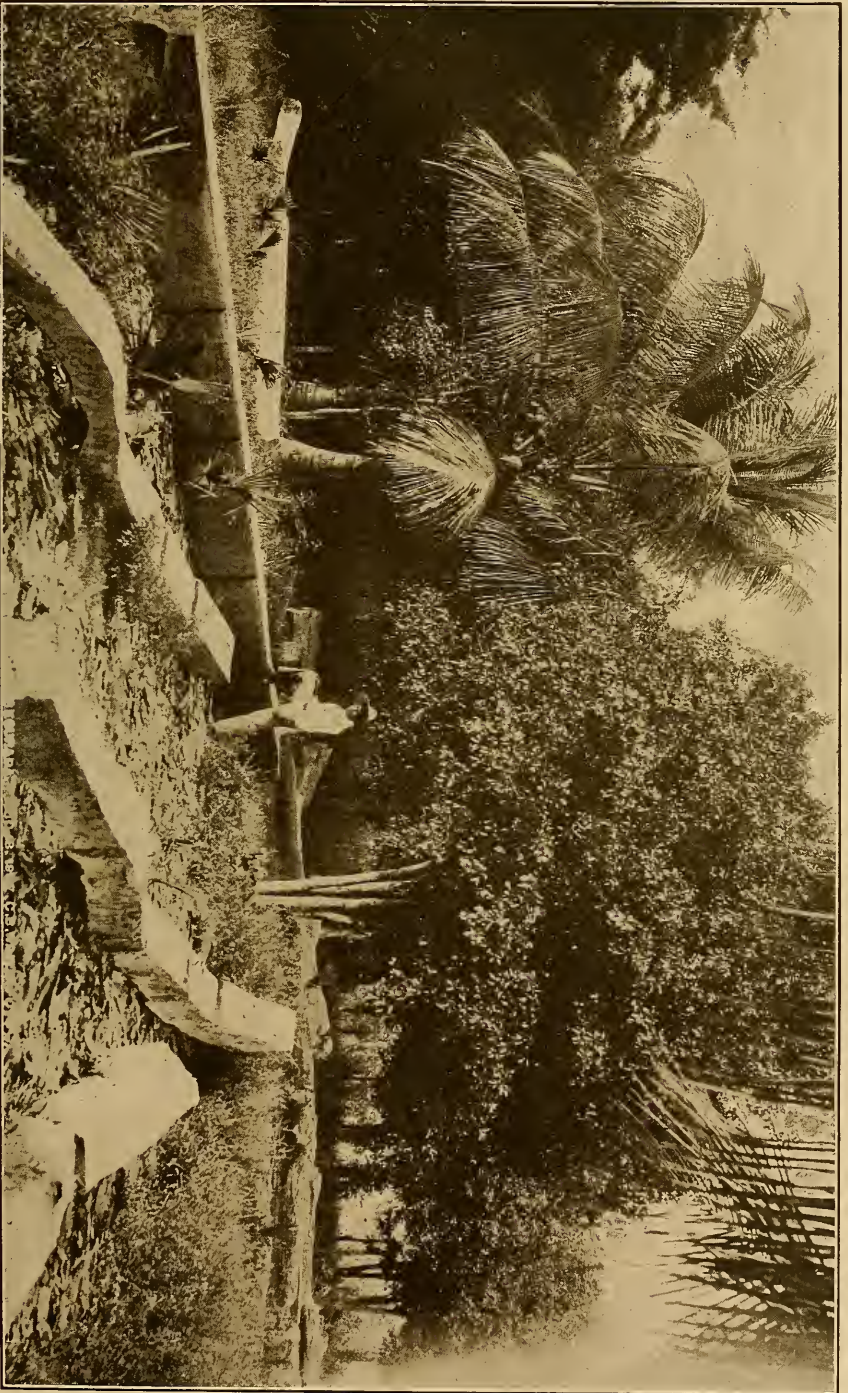


A MAHOGANY LOG FELLED BY MEN FROM THE UNITED STATES.

The mahogany log has hitherto been hewn into a square shape by native workmen, because it was thus more in demand by the foreign markets of London or Hamburg. Americans prefer to leave the log in its natural condition, as more wood is preserved thereby and the sawing can be better performed when it reaches the northern mill.

Good specimens have been found as high as 1,500 feet in Jamaica, where much of the wood first came from and where it was so ruthlessly destroyed. As a rule, however, it hugs the coast, or the edges of rivers that have no great fall from their source to their entrance into the sea. While in one sense, therefore, transportation is not complicated by the problem of moving the giant logs down the mountain, this advantage is overcome by the fact that passage through the tropic jungle is costly and difficult.

The mahogany tree from an early period was used by the Spaniards for shipbuilding. The first mention of it occurs shortly after the discovery of the New World, when CORTES and his companions,



MAHOGANY LOGS PREPARED FOR THE EUROPEAN MARKET.

After the tree is felled in the forest it is trimmed and hewn into square "sticks" and gotten ready for the rough transportation to the water's edge. This square shape is preferred by English buyers as more suitable to their trade. Of the quantity imported into the United States, 50 per cent comes from Yucatan, Mexico, but local dealers are learning to deliver the logs unsawed, in the natural round shape.

between the years 1521 and 1540, employed it in the construction of ships used in their voyages of discovery after their conquest of Mexico. In 1597 Sir WALTER RALEIGH found it excellent for repairing his ships in the West Indies, and from that time on for generations no hard wood could compare with mahogany in shipbuilding for firmness and durability. The wood was first imported into England in its unmanufactured state in 1724. For house construction it was rejected by the workmen as too hard; but, partly as an experiment, partly as pastime, it was used by a man named WOLLASTON, a well-known cabinetmaker, in fashioning a candle box. Its beauty attracted general attention, and shortly afterwards it became



A MAHOGANY LOG LOADED IN THE FOREST UPON ITS CART.

After the log has been felled and sawed, it is loaded upon a primitive but strong truck called (in Mexico) *trinquial*. This is an evenly balanced two-wheeled cart, well adapted for its purpose.

the popular wood from which to make furniture and other articles of luxury.

Even as late as 1850 mahogany was commercially valued chiefly on account of its excellence in shipbuilding, but it has been displaced in this regard, and to-day a vessel of mahogany would be a marvel of extravagance and senseless waste. The two factors were the advent of steam, which required iron instead of wooden ships, and the increasing scarcity of mahogany combined with the greater demand for it in all kinds of cabinetwork.

Collecting the mahogany tree has made little advances during the past century, and the methods in vogue are as primitive now as they

were when the native Caribs felled the giant of the forest and dragged it to the water's edge for their marvelous canoes. The season for cutting mahogany usually commences early in the rainy season, and from June to January the crew of workmen is engaged in the forest. The "hunter" cuts his way through the thicket to the tallest tree he meets, which he climbs, and from the top of which he surveys the surrounding country. At the cutting season the leaves of the mahogany tree are of a yellow reddish hue, and the accustomed eye can from a great distance discern the place where it will be found. He then descends and, with the subtle sense of the woodsman, goes directly to the spot he had located from his lofty point of observation.

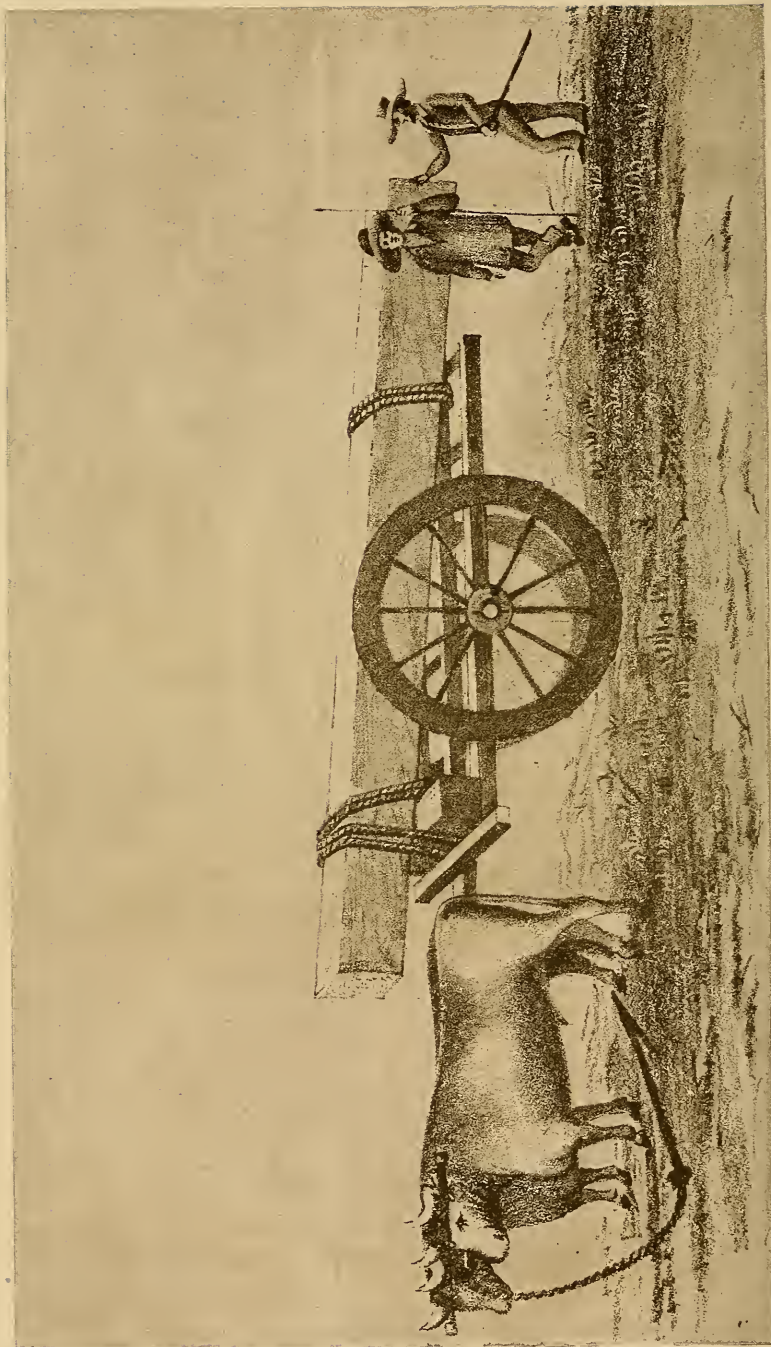


THE MULE CART OF MEXICO.

The haul from the forest to the river may be long or short, but it is sure to be laborious, and the mules or oxen needed to accomplish the task may number from four to twenty. The native workmen, whether in Honduras or Cuba, are skillful in elevating the mahogany log to the cart and balancing it during the journey.

A trail is then blazed by the others of the force from the road to the tree, and cutting is begun. The tree is commonly cut about 10 or 12 feet from the ground, some of the finest figures in the wood being thus lost, although modern saws and training have been able to save much of the timber formerly wasted. It takes the labor of two men the best part of a day to saw through a tree, and these are the highest paid laborers. Sometimes the trunk measures 12 feet in diameter, and it may be understood, therefore, that the task is by no means an easy one.

The roads to the trees have meanwhile been constructed. Logs are hauled from their place of growth to the river during the dry season,



THE OX CART OF CUBA.

The triquiual, the cart on which the mahogany log is hauled from the forest to the river, may have different names in different parts of Latin America, but the similarity of design in all mahogany countries will be seen by comparing this illustration of a cart in Cuba sixty years ago with the preceding photograph on page 388 taken only a few weeks ago in the wilds of Mexico.



because at that time only is it possible to transport them, as the ground for all the rest of the year is too soft for heavily laden trucks. Much of this work is done at night. In fact, the felling of the tree is begun by the waning moon, partly on account of the superstition of the cutters, who have always been led to believe that moonlight offers the really proper illumination for such a ceremony; partly also because the experienced woodsman has demonstrated that the mahogany tree is then freer from sap, sounder, and of a richer color than when felled before the full moon. The practical reason for carrying on the more arduous labor at night is that neither men nor cattle could withstand the intense heat of the jungle through which the simple roads are cut.



THE AMERICAN LOG RAILWAY.

American ingenuity has penetrated the tropical forest with its lumber railway, and most of the American mahogany companies operating in Mexico have hauled out their lumber on logging trains. They seem able to expedite transportation by this means, but it is questionable whether there has been any saving in expense, compared to the traditional way, by mule or ox cart.

The immediate destination of the loads hauled by the ox or mule teams is the bank of the nearest stream, for once the immense logs can be tipped into the water the most difficult task is then accomplished. It is always planned, however, to reach the stream about the beginning of the rainy season, so that there will be sufficient water to float the logs; otherwise they might lie unmoved for months. When the river becomes wide enough the logs are gathered into rafts, the entire process being quite similar to the logging methods of the United States and Canada. Although no harm results from immersion in the fresh water of the rivers, every effort is made to remove

the logs from salt water, because they must not be exposed to the ravages of the *toredo*, the boring animal so destructive to anything within its reach in tropical salt water. Therefore, as soon as the steamer side is reached it is lifted on board and made ready for the voyage.

Only the best and biggest logs are exported; the smaller ones and the remnants of the sawed timber are utilized as ordinary lumber on the spot for the construction of houses or the decoration of small vessels, so that in the tropics there can still be seen the solid mahogany furniture which originally made the wood so famous.



THE END OF THE LAND JOURNEY.

When the mahogany log is finally at the water's edge, it is unloaded from the cart and sent downstream. Each log receives the distinctive mark of the owner or contractor, and is finally separated only when they approach the steamer's side. Mahogany floats, although it is a heavy wood, weighing  $5\frac{1}{2}$  pounds a foot, when green, and when dry  $4\frac{1}{2}$  pounds a foot, board measurement.

London is the mahogany center of the world. Here prices are set and the character of wood decided. All mahogany does not grade alike, although there is not nearly so much variation in quality as is presented by other woods. Several features are, however, so well recognized in the trade that they form the distinguishing marks by which it is graded. Beauty of grain is, of course, the chief characteristic, and that which at once ranks it above other woods either for constructive or decorative purposes; allied to beauty is figure or pattern, and when the two are combined, mahogany then becomes supreme. An advantage possessed by few other woods is that this beauty enhances rather than deteriorates by age. Size is also a property of value, for from a mahogany log can be made various decora-



SAWING THE LOG INTO LUMBER.

If the local dealer in hard woods thinks that the mahogany log is not fit for the foreign market, it is sawed by primitive methods, illustrated here, into boards as soon as it is brought out of the forest, and this lumber is used for the construction of houses on the spot, just as pine is used in the woods of Michigan or Canada. In such dwellings or on locally built vessels for navigation on contiguous waters in Latin America is the only place where mahogany as a wood can be found to-day. All that is seen in Europe or America is veneer.



CONSTRUCTION OF A MAHOGANY RAFT.

As a rule, logs are collected into rafts, since this method of transportation saves time in the final disposition of them after reaching salt water. If a few hundred logs are gathered into one raft, a small fortune will be represented. Measured in values of timber, mahogany is one of the most expensive woods in the world, but estimated in terms of what can be accomplished by it, it is in reality one of the cheapest.



A MAHOGANY RAFT AT THE STEAMER'S SIDE.

When the logs are once in salt water, they must be immediately removed from it and placed in the steamer's hold. Fresh water does mahogany no harm, but the destructive insect—*torpedo*—which lives only in salt water, attacks and destroys the value of mahogany quite as readily as it does other woods of a softer structure.

tions scarcely possible from other woods. Mahogany seasons well; it does not warp, twist, nor split, and it lasts indefinitely after once being made up into permanent shape. A more recent quality of wood, demanded since the development of delicate veneering machinery, is its capacity for taking glue, and this quality inheres in mahogany to a remarkable degree. Moreover, it has uniform grain, which makes it well adapted for polishing. It is also noninflammable; it takes paint and enamel very well, and, all things considered, it ranks as one of the lowest priced woods obtainable.



VENEER FROM A MAHOGANY LOG.

Mahogany shows very beautiful natural grain, and when cut into veneers of uniform size, the sheets can be arranged into even more beautiful patterns over large surfaces.

The unusual facility with which mahogany can be veneered is, perhaps, the one characteristic which keeps it constantly in such commercial demand. Veneering is by no means a modern art, the practice of cutting or slicing woods or ivory into very thin strips for inlaying, or for mounting upon less costly material, having been well known to the ancients. It has, nevertheless, been brought to the present stage of excellence only within relatively recent years. Sheets of mahogany of wonderful thinness can be cut from the parent log, with very little loss. In sawing there is, of course, the waste of saw-

dust to be considered, but by planing, this loss is not encountered. When it is stated that, by modern machinery, upward of 200 sheets to the inch can be obtained from a log, it will be understood how remarkably extensive the applications of mahogany may become.

Selling mahogany logs by auction is still the habit in vogue in the great center—London—of the trade, a custom inherited from generations of buying and selling. To these principal markets in England merchants come from every direction, for the pick of the forests can always be found there. In fact, the best class of logs from tropical America are carried first to England, many of them sold to







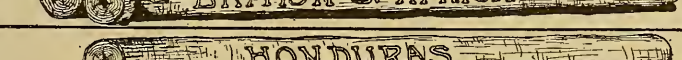

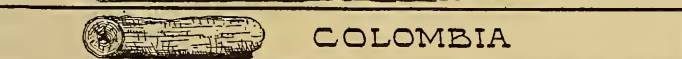

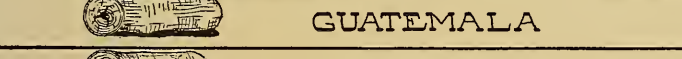
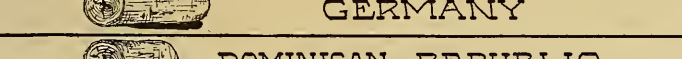
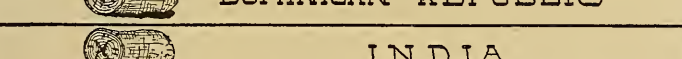
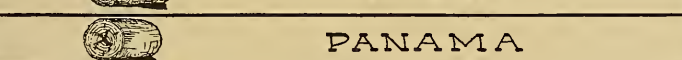


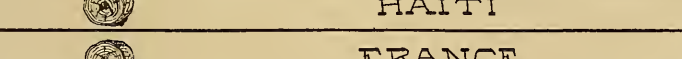
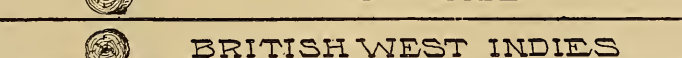
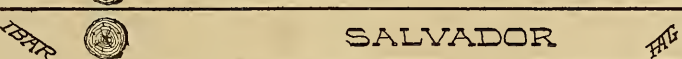
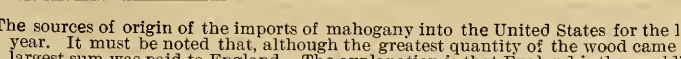
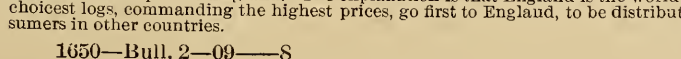



PLANTING MAHOGANY AMONG INDIA-RUBBER TREES.

Residents of Latin America have traditions of trees more than two hundred years. Therefore to hope to plant it as a commercial product from which the present generation could reap a reward would be out of the question. Attempts have been made, however, and with some success, to grow mahogany along with india-rubber trees on plantations in Mexico and Central America, because when they reach a good height in early youth they will offer good shade to the rubber, and when they become mature, after having served a useful purpose, they will be a source of profit to some future generation.

manufacturers in the United States, to be finally imported through the Atlantic seaboard, thus having traveled twice across the ocean in their journey from the forest to the factory. For this reason the statistics of imports into the United States appear misleading, as due credit can not be given the producing country so long as England is seemingly the country of origin. For the same reason, too, African mahogany is confused in trade reports with that coming from America. It is true that the supply from Africa, especially Nigeria, has increased rapidly, and that it now occupies equal place in the imports into Europe with the supply from America. Nevertheless, the area of the Caribbean Sea, Mexico, Central America,

1908  
THE UNITED STATES  
IMPORTED MAHAGONY FROM

	MEXICO	12,611-M. Feet \$603,252.
	GREAT BRITAIN	7,175-M. Feet \$766,863.
	NICARAGUA	5,248-M. Feet \$264,546.
	BRITISH HONDURAS	4,127-M. Feet \$227,219.
	CUBA	2,415-M. Feet. \$150,793.
	FRENCH AFRICA	2,129 M. Feet. \$ 89,521.
	BRITISH S. AFRICA	2,118-M. Feet. \$112,872.
	HONDURAS	2,033-M. Feet. \$117,507.
	BRITISH W. AFRICA	1,495-M. Feet \$ 91,191.
	COLOMBIA	485-M. Feet. \$18,670.
	VENEZUELA	445-M. Feet \$30,423.
	GUATEMALA	355-M. Feet \$19,578.
	GERMANY	318-M. Feet \$27,286.
	DOMINICAN REPUBLIC	193-M. Feet \$13,048.
	INDIA	180-M. Feet \$15,953.
	PANAMA	155-M. Feet \$ 6,775.
	COSTA RICA	71-M. Feet \$2,664.
	DUTCH WEST INDIES	61-M. Feet \$3,747.
	HAITI	26-M. Feet \$3,300.
	FRANCE	23-M. Feet. \$ 895.
	BRITISH WEST INDIES	11-M. Feet \$ 677
	SALVADOR	4-M. Feet \$ 174

The sources of origin of the imports of mahogany into the United States for the last reported fiscal year. It must be noted that, although the greatest quantity of the wood came from Mexico, the largest sum was paid to England. The explanation is that England is the world's market, and the choicest logs, commanding the highest prices, go first to England, to be distributed thence to consumers in other countries.

Panama, Colombia, Venezuela, Cuba, Haiti, and the Dominican Republic have been and always will be the great source from which the world derives its cherished mahogany. Cherished, however, only in the sense that marks its use. The mahogany trees of the tropical forests are being slowly but none the less surely cut down. No effort is made to preserve the timber lands or to foster the growth of the younger trees. The waste in stumpage and in tops is enormous, and the demand increases constantly. Yet all the governments of Latin America are alive to the question of conservation, and will undoubtedly meet the danger of deforestation before it is too late.





# THE NATURAL RESOURCES OF PANAMA<sup>a</sup> " " " "

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**T**HE Republic of Panama occupies the narrow neck of land which connects the continents of North and South America. This isthmus contains about 32,000 square miles, is 430 miles in extreme length, and has an average breadth of 70 miles. Its inland borders, dividing it from Costa Rica on one hand and Colombia on the other, aggregate less than 350 miles, while its coast line totals 1,245 miles, of which considerably more than half faces the Pacific Ocean. The peculiar formation of the territory insures two important advantages. Either coast is easily accessible from any point in the country and the entire area might



PORTION OF WATER FRONT, CITY OF PANAMA.

be brought within the scope of a railroad more readily and at less expense than could the domain of any other nation in the world. The proximity of the oceans to all parts of Panama has the effect of tempering the climate and rendering it unusually equable. There is complete absence of aridity and the scorching heat that withers vegetation during the dry season in almost all tropical countries. In Panama the rainy period extends from the beginning of May to the end of December, but during the other four months a sufficient amount of moisture is precipitated to keep the foliage green. At the close of last April, for instance, the grass was fresh and succulent

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<sup>a</sup> By FORBES LINDSAY, author of "Panama: The Isthmus and the Canal."

and the streams copious enough to afford ample water to the live stock. The mean temperature is about 80°, from which the extreme fluctuations do not depart more than 10 degrees in either direction. The climate, far from being rigorous, is one in which Americans can perform active labor and maintain perfect health.

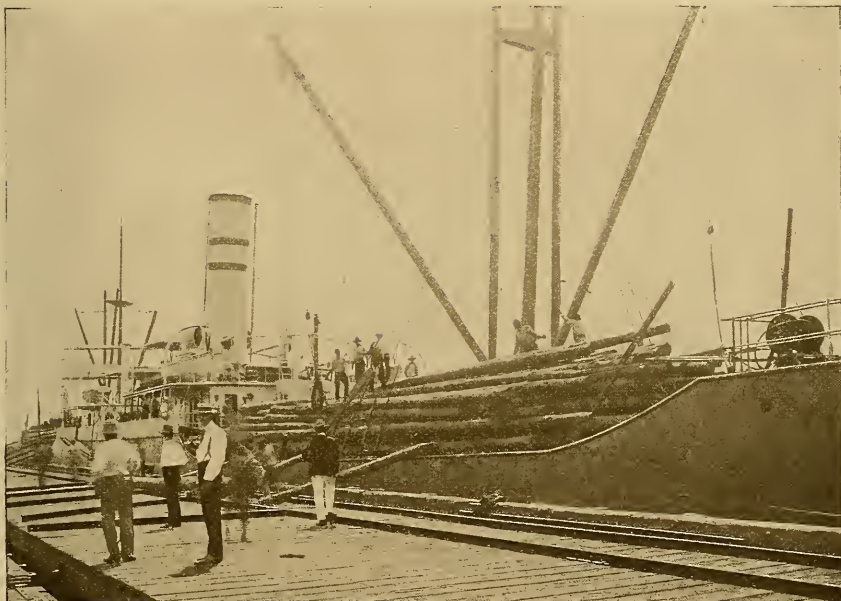
A broken range of mountains intersects the Isthmus longitudinally. Two peaks in the Province of Chiriqui—El Volcan and Pico Blanco—attain an altitude exceeding 11,000 feet. Rising in this mountain system, 150 streams run into the Caribbean Sea and more than twice that number into the Pacific Ocean. The utility of the latter for commercial purposes is restricted by the great tidal fluctuation of the Pacific, the extreme oscillations of which embrace a range of 20 feet. The ports on this coast are all situated up rivers, and long delays are usually entailed in reaching and leaving them. There is one point upon the Pacific littoral admirably suited for an outside harbor. That is Charco Azul, near the Costa Rican border. Here is a large sea hole with depth varying from 60 to 105 fathoms and having anchorage around its inner edge. Charco Azul must ultimately become the principal Pacific port of Panama west of the canal. It is situated in the section of country where the earliest and greatest development will take place, and it is the only harbor on the coast which is always navigable regardless of tidal conditions. The coast-wise traffic which will be generated by the Canal will demand such a port, and decline to enter rivers navigable only at high tide, and then solely by vessels having no more than 8 feet of draft. On the Atlantic coast are several good harbors, but, excepting for Bocas del Toro and Colon, that side of the Isthmus is undeveloped and promises little prospect of settlement.

Upon the Atlantic side of the divide the country is, for the most part, covered with heavy forest, which extends down to the water line and is composed of great trees of valuable hard wood, rising out of undergrowth so dense as to be impenetrable without the aid of the machete. This territory presents a fine field for lumbering, but the industry can not be profitably pursued except by corporations with large capital at command. Until the land is thus cleared, the Atlantic belt must remain uninhabited wilderness. Even when opened to agriculture it will, owing to its excessive rainfall, be less attractive to settlers than land upon the Pacific coast.

The San Blas country, east of the Canal Zone, is practically *terra incognita*. Its Indian inhabitants have ever been inimical to white men, and Spain failed to bring them under subjection. They acknowledge allegiance to the Panama Government and consult the President in the election of their chief, but otherwise are permitted to manage their own affairs. With the exception of coming into Colon for salt

and other necessities, and bringing in large quantities of coconuts, they hold no intercourse with the outer world.

The Darien section is wild, forest clad, and uninhabited, save for a sprinkling of Indians. It contains the greatest extent of natural rubber growth in the Isthmus, but otherwise presents less promise of development than does the territory to the west of the Canal Zone. An English syndicate is operating a large rubber tract in Darien, the product of which is of excellent quality. Another large tract, worked by an American company, extends 20 miles on either side of Mariato Point. The tree is also systematically cultivated by a corporation located at Las Cascadas, a few miles from the canal line.



UNLOADING PILES AT COLON, PANAMA, FOR USE IN BUILDING WHARVES AND DOCKS FOR THE PANAMA RAILROAD.

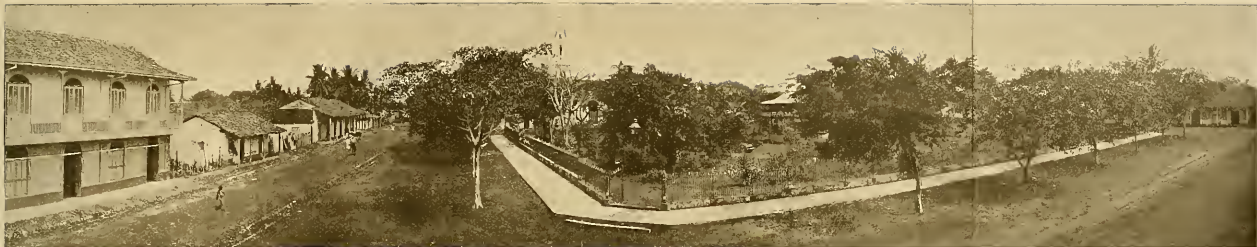
The rubber tree is found wild in every part of the country, and the species called *Castilla* will thrive anywhere, if planted under proper conditions and provided with the shade essential to its healthy development. At one time large quantities of rubber were shipped from Chiriqui, but, as it was gathered by the old native method of cutting down the tree, and replanting was neglected, the valuable stands of the Province disappeared, and now the trees are to be found only in scattered specimens, which, however, exhibit a vigor that indicates the results to be expected from scientific culture. The commercial cultivation of rubber is, of course, practicable only for the capitalist. The individual of small means, even though he should be able to meet

the initial expense, could not afford to wait for the returns which a rubber plantation will not begin to yield before the seventh or eighth year.

There is an ample amount of latent water power at various points in the country. In the vicinity of David a very simple and inexpensive development is possible, and a sufficient demand already exists to make it economically feasible. Sawmills, leather factories, distilleries, sugar refineries, etc., might be profitably operated by such power, which could be also utilized to supply the city with electric light.

All the freight in the interior is carried in bullock carts or on pack animals, by far the greater part of it, aside from the banana shipments, reaching one or other of the ports on the Pacific. Except for Bocas del Toro, the depot of the United Fruit Company, David is the principal shipping point in the interior, but Remedios, Sona, and Aguadulce, as well as some smaller ports, have a fair export trade. The city of David has about 5,000 inhabitants and is growing apace. It is situated some 9 miles from the coast and 3 from the river port of Pedregal, which is the outlet for its exports. There are a number of industrial plants in the place, such as wood and leather factories, distilleries, coffee mills, etc. Two lines, each running two steamboats, maintain a regular service between David and Panama, calling at intermediate points with sufficient frequency to meet the demands of traffic. An additional vessel, designed to make the journey between these points in twenty-four hours, will be put on in a few weeks' time. There are also a number of small luggers carrying passengers and freight up and down the coast.

The stretch of country lying to the south of the divide and to the west of the Canal Zone is much more open than that in other parts of the Isthmus. The growth is mainly what the natives term "*monte*"—that is, plants of moderate size with here and there a large tree. Trails and cart roads can be made through it with ease and it is readily cleared with the machete. At frequent intervals this jungle gives place to extensive expanses of savanna, or llano, as it is commonly called "up-country." Numerous streams present almost the only difficult places in a continuous road from Aguadulce to David and beyond. Bridges, to which additions are constantly being made, span many of them. It is in this section of the country only that any agricultural and industrial progress has been made. Along this stretch are several towns and hundreds of hamlets, but the population is very sparse and must increase many fold before the splendid resources of this region can be adequately exploited. This lack is the most serious disadvantage under which the country rests. The entire population of the Republic, including that of the Canal Zone, is no



PLAZA OR PUBLIC SQUARE IN DAVID.



THE NEW GOVERNMENT BUILDING AT DAVID, PROVINCE OF CHIRIQUI, PANAMA.



THE RANCH OF PRESIDENT OBALDIA, DAVID.



more than 300,000. Of these perhaps one-half are to be found scattered over the interior. Chiriqui, the richest and most important Province from the agricultural viewpoint, has fewer than 100,000 inhabitants. The Indians can not be counted on to meet the demands of labor and only a small proportion of the Panamans are available as farm hands. Extensive immigration must be induced and, fortunately, an immediate source of supply is at hand. There are thousands of hardy Spaniards and Italians engaged on the canal who will shortly be released. It is probable that a large proportion of these will be glad to remain in the country and take up land. They make excellent farmers and will furnish a desirable new element in the general population.

There is nowhere in the world richer land than that of the Republic of Panama, and the Pacific section of the Province of Chiriqui surpasses all other parts in fertility of soil, salubrity of climate, scenic beauty, and conditions adapted to agricultural pursuits. The section about David is an ideal farming country. From the coast the land gradually rises to the mountains, about 40 miles inland. Stretches of monte alternate with large tracts of gently rolling llano, reminding one of the famous "blue-grass" country in the neighborhood of Lexington, Ky., and covered with a thick mat of similar grass. Frequent streams and clumps of woodland lend diversity to the landscape, which has an ever-present background of mountain peaks whose heads penetrate the clouds. Finer land for cattle raising it would be impossible to imagine. The llanos furnish ample range of the best kind and rich potreros, filled with heavier growth, are fenced in upon the bottom lands.

Cattle raising is the only agricultural industry to which any intelligence and care have been devoted by the natives. By constant experiment and selection over a long period of years an excellent breed of cattle has been produced. At 4 years of age an average Chiriqui steer will yield about 400 pounds of meat and fetch from \$30 to \$35 gold at David. The home market is not yet sufficiently supplied and it will be considerably enlarged with the opening of the Canal. The present method of shipment, which involves a steamboat journey of three or four days, prevents the delivery of the animals in Panama in the best condition, but with the establishment of the railroad from the capital to David this difficulty will be obviated. There is an abundance of nutritious food in the district. Guinea grass grows in tall bunches and savoya with a high broad blade. Del Para is a sort of creeper, introduced from Brazil. Jujuca is an extremely succulent grass that abounds in the river bottoms and can be depended on in the driest seasons. Jenjebriillo is similar to "blue grass," and gives a blade 5 inches in length during the rains. Sieta is a kind of

sage, highly nutritious, that grows on sandy soil. Without doubt alfalfa would thrive in this section, where the soil is a loose loam precisely adapted to deep-rooting plants.

Horse raising is not carried on to anything like the extent that it might be with profit. The Panama market is far from being fully supplied. Only stallions are used for draft and riding, the mares being left upon the range for breeding purposes. The native horse is not large but stocky, and has great endurance. Even more promising than horse raising is the breeding of mules, which are of greater service and command a considerably higher price.

Throughout this section the top soil is 6 feet or more in depth and of marvelous fertility. This extreme richness accounts for the fact



CROSSING THE SAVANAS (PLAINS) OF THE PROVINCE OF CHIRIQUI, PANAMA

The government telegraph line marks the way for over a hundred miles.

that cultivation is entirely neglected. The natives cut down the monte and burn it where it lies. The ground is then ready for planting. The surface is scratched with a machete and seed dropped in. The crop is then allowed to take care of itself. There is no plowing or rooting, no weeding or pruning, and despite this haphazard method the resultant crops are such as few parts of the earth can produce under intense cultivation. Sugar cane has been harvested continuously for fifteen years from the same field without replanting, and the yield weighs 18 pounds and sometimes more to the stalk. There are patches in Chiriqui where Kaffir corn has grown continuously for twenty years without attention, and fine potatoes are gathered from ground sown fourteen years ago. The tobacco plant is neither topped nor trimmed, but is allowed to grow in unaided contest



with weeds. When cut it is hung in a hut to dry preparatory to shipping. Scientific curing is quite unknown; nevertheless, the leaf compares favorably with that of Pennsylvania, for instance. There is every reason for believing that with proper management a high grade of tobacco can be raised in Chiriqui and not improbable that an excellent wrapper leaf may be grown under cover.

Coffee grows wild all over the Pacific coast region. Its systematic cultivation is limited to the Boquete Valley, on the southern slope of the Volcan. The industry is in the hands of a few Americans and Englishmen who are producing a bean of superlative quality which sells for 15 cents gold a pound in Panama. Trial shipments to New York brought the highest prices, but, since the output is far from equaling the domestic demand, there is no inducement to export. Cacao thrives with ordinary attention and is not subject to the wind-storms which cause so much damage to plantations in other parts of the world. Little effort has been devoted to the cultivation of this valuable crop and only one plantation is maintained under proper management. The owner of this always secures the best prices for his product in the London market. A short-fiber cotton grows extensively in Chiriqui. Small quantities of it are exported and sell at good figures owing to the excellence of the quality. Fiber cultivation has not yet been entered upon, although many parts of the country are well adapted to the growth of such plants, and several species of commercial value are found in a wild state. Specimen fibers sent to England and Germany have been pronounced by experts to be stronger than hemp.

In short, tropical plants of all descriptions, as well as many peculiar to the Temperate Zone, thrive in Panama. The varying character of the land, with its different soils and altitudes, makes it possible to raise the greatest variety of crops in a comparatively small area. For instance, on a strip running back 25 or 30 miles from the Pacific Ocean, along the shore fine playa furnishes the best possible ground for cocoanut plantations. Back of this is excellent sugar land. Still farther back fibers and rubber thrive; and so, in succession, tobacco, cacao, coffee, and, in the higher altitudes, the vegetables of the temperate regions. Along the Costa Rican border is a belt of tropical fruit land as rich as any in the world. While oranges, grape fruit, mangoes, pineapples, papayas, etc., grow wild in different parts of the country, they are not cultivated, and large quantities are imported from Jamaica. Even the supply of bananas, of which the consumption is great, is not met by the native production.

Since the earliest settlement by Spain a widespread belief has prevailed that rich deposits of the precious metals exist in the San Blas country, and the report of a recent scientific expedition seems to confirm this supposition. In the almost total absence of exact

information it is hazardous to express an opinion as to the mineral resources of Panama. The numerous gold ornaments that have been found in the ancient Indian graves indicate the presence at one time of large quantities of that metal. It is possible that a geological survey of the Isthmus would reveal unsuspected mineral wealth. Manganese has been discovered in several places and there is scientific authority for the statement that extensive coal deposits exist. Lignite of an excellent quality is distributed over a wide area. When transportation facilities are increased this will furnish fuel for industrial purposes and must prove an important factor in the development of the country.

The Republic of Panama presents a splendid field for the investment of American capital and the application of American energy



OLD WATER-POWER SAWMILL IN THE PROVINCE OF CHIRIQUI.

While timber of many varieties is plentiful in the Republic, the want of proper facilities for converting it into material for building purposes has served to make the erection of wooden houses expensive.

and enterprise. Since the occupation of the Canal Zone by the United States development has advanced appreciably in the interior and especially in Chiriqui. Many public improvements are projected in this section and it will doubtless be well settled and extensively devoted to agriculture in the course of the next decade. The Government is disposed to offer every encouragement to American settlers and corporations may depend upon liberal treatment and the utmost security. The character of the vegetation and the lay of the land along the Pacific coast render clearing and road making comparatively easy and inexpensive. At present ox carts and buggies run between David and Boquete, Bugaba, Divala, and other points. The

construction of a railroad from Panama to David in the near future is practically assured and with rapid transportation available a large and profitable fruit industry should be established. The Panama Canal will bring the world's markets within easy reach of the various products of this section. Its sugar and its coconuts, to mention only two of the most assured exports, will find a ready sale. The only drawback to a speedy extension of agriculture is the paucity of labor and means of overcoming that difficulty are within reach.

It requires no stretch of imagination to see for the Republic of Panama a wealthy and prosperous future with a happy and contented population.



# VALUE OF LATIN-AMERICAN TRADE IN THE OPINION OF HON. WILLIAM SULZER.

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UNITED STATES CONGRESSMAN WILLIAM SULZER, who has recently returned from an extended tour of Central America and Mexico, takes the countries visited as an index to the great and advancing value of Latin America in the commercial relations of the United States. Not only are these lands rich beyond belief in natural resources, but their historic past, their splendid ruins, and their present energetic development all combine to excite the interest of the traveler and scholar.

On the more material side, Mr. SULZER speaks of Guatemala as a wonderful country, rich in scenic wonders, rich in valuable hard timber, and one of the richest countries in the world in mineral resources. The climate and scenery are unsurpassed, and under the progressive administration of President CABRERA, Guatemala is rapidly forging to the front.

Of Mexico also and its ruler enthusiastic mention is made, and throughout the southern Republics the interest felt in the completion of the Panama Canal is said to be second only to that displayed in the United States.

Subsequent to his return Mr. SULZER, in addressing the House of Representatives on the subject of trade between the United States and her neighbors, spoke as follows in regard to Latin America and its interests:

\* \* \* \* \*

I desire to reiterate the hope, so often expressed by me, that something will be done ere the tariff bill becomes a law to bring about closer political ties and freer commercial relations with the progressive people of our sister Republics in Mexico and in Central and South America.

Here is the true field, it seems to me, for our legitimate expansion of trade, for broader markets, for our industrial endeavors, and for our commercial extension; and now is the time for an exhibition on our part, as the representatives in Congress of the people of the United States, of a little political sagacity and the exercise of good business foresight in the enactment of this tariff legislation that will mean more and more commercially, as the years come and go, to our producers, to our merchants, to our manufacturers, and to all the people of our country.

\* \* \* \* \*

Canada, Mexico, Central and South America are our neighbors and our real friends, and they should be our best customers; and they would be our best customers if we

only had the commercial sense and the political wisdom to deal with them above-board, in the spirit of trade equality, and treat them fairly and reciprocally along lines mutually advantageous.

\* \* \* \* \*

Statistics conclusively show that this trade at our very doors is growing more important and becoming more valuable every year. Why should we ignore it? European countries are doing their best to secure it, and the facts prove that they are getting the most of it at the present time, very much to our detriment and to our disadvantage. Why will our people always be blind commercially to their own best interests and to their own greatest opportunities? Why spend millions of dollars seeking trade in the Orient when the commerce of the Occident—richer than the Indies—is knocking at our door? Let us obliterate the obstacles, tear down the barriers, and open wide the doors to welcome the commerce of North and South and Central America, on land and sea, ere it is too late and the opportunity to secure it be lost forever. Now is the accepted time. These countries are anxiously awaiting the outcome of our deliberations. They are watching the enactment of this tariff legislation. They long for some evidence of our friendship and sincerity. They want to trade with us. They will meet us more than halfway. Shall we disappoint their most sanguine expectations? Shall we ignore this most valuable trade, these great commercial opportunities, and give these splendid markets wholly and entirely to Germany and to England and to France?

\* \* \* \* \*

Hence I repeat that I indulge the lingering hope that ere the pending tariff bill becomes a law a paragraph will be written in its provisions for closer commercial relations with these progressive countries, based on the principles of freer trade, closer political sympathy, and truer reciprocity.

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In this connection, sir, I want to commend the good work that is being done, and has been done, along these lines by the Hon. JOHN BARRETT, the very able and efficient and experienced Director of the Bureau of the American Republics. He is the right man in the right place. He knows the truth of what I am saying to-day. He is doing his part. His indefatigable labors are bearing fruit, but I am sorry to say that his earnest efforts are very little appreciated at home, though very generally applauded by the far-seeing statesmen of our sister Republics.

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Then, too, Mr. Speaker, in connection with the expansion of our trade and commerce to our north and to the south, we should provide for adequate steamship service on the Atlantic and the Pacific by discriminating tonnage taxes in favor of American-built ships, carrying the American flag, and manned by American sailors. This policy will go far to restore our merchant marine and give us a share in the deep-sea carrying trade of the world. Next to securing the trade is the ability to carry it.



# TWO GREAT CONGRESSES

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**A**T THE Seventeenth National Irrigation Congress to be held at Spokane, State of Washington, from August 9, to August 14, 1909, and at the twentieth annual session of the Trans-Mississippi Commercial Congress in Denver, from August 16 to 21, it is purposed to devote special attention to relations between the United States and Latin America. In the deliberations of the congresses, the participation of delegates from Latin America has been solicited, and the increased commercial status inevitably accruing to the various countries through the completion of the Panama Canal will be dwelt upon.

The purpose of the Irrigation Congress is to demonstrate the wonderful development possible through the solution of problems affecting the water supply for arid lands, the selection of Spokane being peculiarly fortunate for the practical demonstration of the matter. Within a few minutes ride of the city are in operation gravity canal systems, water distribution by pipes and the most modern of electrical pumping plants, while within a radius of 150 miles are some of the greatest projects ever attempted on the continent.

The association having the preliminaries for the congress in charge, anticipates a meeting of great importance, 3,500 delegates being accredited. It is expected that the President of the United States, Cabinet officers, government officials, foreign representatives, bankers, and delegates from not only the United States and Canada will attend, but that representatives from Europe, the Latin Republics, Japan, and China, will take part in the proceedings.

The Trans-Mississippi Commercial Congress deals directly with public questions in which States west of the Mississippi are interested, being the clearing house for western ideas.

In widening its scope to embrace Latin America, the executive committee presents for careful consideration the question of closer commercial relations between the people of the United States and those of the Latin Republics with special reference to the early completion of the Panama Canal and the resultant stimulating of the commercial development in the Trans-Mississippi States to which this international highway is directly tributary. The congress will con-

vene at the geographical center of this section, where the matter may be discussed in a manner that will prove of wide educational value in promoting public interest.

The committee also specifically mentions as a further development along the same line a Pan-American Commercial Congress, to be composed of delegates selected from the commercial, industrial, and maritime centers of the United States and the Latin Republics to convene at an early date.

President TAFT will open the congress.



# THE ARGENTINE REPUBLIC IN THE INTERNATIONAL AGRICULTURAL INSTI- TUTE AT ROME . . . .

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**T**HE eminent position occupied by the Argentine Republic in the world of economics amply justifies the importance that is attached to the utterances of the country's representatives, especially when matters agricultural are being considered.

Dr. ROQUE SAENZ PEÑA, Argentine Minister to Italy and member of the Permanent Court of Arbitration of The Hague, is also the representative of the Argentine Republic in the International Agricultural Institute established at Rome. In the latter capacity, Dr. SAENZ PEÑA has recently addressed a communication to the president of the institute for submission to the permanent committee, in which the condition of the workingman, and especially the emigrant laborer, is discussed.

While according abundant praise to the collection and dissemination of agricultural data, to the improvement of cultures, and to the adequate exploitation of a country's resources, Dr. SAENZ PEÑA finds in the amelioration of the conditions surrounding the farmer and cultivator the true spring of agricultural development. In particular he urges the betterment of transport conditions for the emigrant, stating that in proportion as travel is made more luxurious for the wealthy, the quarters assigned to the poorer classes become more circumscribed.

The Argentine Government welcomes the intelligent emigrant to its shores, and through its bureau of immigration affords ample provision for the care and distribution of settlers. That the labors of these settlers shall be amply rewarded and protected is of vital importance in the agricultural world, and for the furtherance of this purpose the following project is submitted for the action of the institute:

It is proposed that—

ART. 1. The International Institute of Agriculture create a special bureau to be known as "Wage and Labor Bureau," and which will be in charge of a chief clerk and will be under the institute.

ART. 2. This bureau will keep in touch with the national bureaus through the organs of the institute, with a view of centralizing the international movement on



wages, the variations which they undergo during the seasons, the labor conditions, and hours and laws which govern it in each country.

ART. 3. Prior to each harvest the bureau, taking as basis the official reports on the probable results, will announce—

- (a) The amount and variations of wages in each country.
- (b) The extent of the crop.
- (c) The number of permanent hands upon which the next harvest can count.
- (d) The temporary immigration during the last harvest.
- (e) The number of hands calculated as necessary for the next harvest.

ART. 4. The data contained in the preceding paragraphs will be published as information by means of the press, especially in the countries and places of emigration and before the general exodus occasioned by each harvest takes place.

ART. 5. The bureau will keep in touch with the emigration committees or with the navigation companies and will try to improve the conditions of travel for the immigrants by enlarging the present quarters set aside for the third class or by trying to establish a special transportation service for the third class only.



# NEW MINING CODE IN GUATEMALA . . .

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**O**N June 30, 1908, President ESTRADA CABRERA, of Guatemala, signed and promulgated the new mining code, which is intended to give an impulse to the mining industries of the country.

The principal wealth of Guatemala is and has been agricultural and forestal. Mining has for a long time occupied a secondary place, yet it is known that the mineral riches of the country are considerable and in the early days formed a source of great revenue to the state. The mining records of colonial days show that between the years 1627 and 1820 more than 1,300 mines of gold, silver, copper, tin, and lead were discovered and worked. At one time more than 150 mining enterprises were profitably carried on, and from a single group the mint of Guatemala coined silver to the amount of \$43,000,000.

The best-known mining districts are located in the eastern section of the Republic, in the departments of Chiquimula and Yzabal. These districts are mountainous and isolated from communication with the other parts of the Republic. At present the mines of Quebradas de Oro, on the Rio Bobos, in the Department of Yzabal, are giving good returns from placer gold working. In the Department of Chiquimula, between the Rio de Concepcion and Rio de las Minas, is a very rich district, in which work is being carried on by a company specially chartered in May, 1900. This company has secured nine mines or groups of mines. Mines have been denounced in the Departments of Alta Verapaz, near Rabinal and Pichec in Baja Verapaz, at San Pedro in Guatemala (Department), in Santa Rosa, and at Zalcuapa and Joyabaj on the Rio Grande in El Quiché.

On the western boundary, in the Department of Huehuetenango, near Chiantla, considerable explorations in search of copper are being made. Lead and silver have both been found, the ore showing by assay 56 per cent lead and 40 ounces of silver per ton. Lead, copper, zinc, and silver are found in the Departments of Huehuetenango, Quiche, Alta and Baja Verapaz, Jalapa and Chiquimula. In the last Department the ore is a blend or argentiferous galena, in some places associated with copper. In the galena the content of lead varies from 20 to 65 per cent and the blends contain from 15 to 40 per cent of zinc. The quantity of silver, according to locality, is

from 200 grams to 14 kilograms per ton. The deposits of Jalapa extend into Santa Rosa and even into Guatemala, not far from the capital. Copper is found principally in the vicinity of Alotepeque in Chiquimula. In this locality is the celebrated mine, San Pantaleon, which was opened in 1866 by an English company and produced in eighteen or twenty years \$40,000,000.

According to the new mining code, owners and operators will enjoy many privileges in Guatemala, among these the right for the term of fifteen years to import, free of duty, state or municipal, such machinery and other articles necessary for the discovery and exploitation of mines as are not produced by the industries of Guatemala. Mining property is subject to no other tax than the territorial contribution of six per thousand, and the export of ores and other mineral products is free from state or municipal duties.

It is decreed in the code that freight rates on the national railroads shall not be increased above the present schedules; that employees and workmen in actual service of the mines shall be exempt from municipal duties and military service in time of peace; and that departmental and local authorities shall render any assistance required by mine owners, and shall protect mines and see that labor contracts are fulfilled. Exceptional privileges are granted for emigrants to be employed in the mines. Sulphur and saltpeter mines are excepted from the operation of the code. In order to work these, special arrangements must be made with the Government.

A mining claim has a superficial area of 10 hectares, must be rectangular, with no side less than 100 meters in length. The hectare being 2.471 acres and the meter 39.37 inches, makes the claim nearly 25 acres, rectangular in shape, with the short side at least 109 yards long.

The discoverer of mines on lands where no other mines have been conceded and registered within a radius of 5 kilometers (about 3.1 miles) is entitled to register three claims. In other cases he is entitled to take up but one claim, although others may be acquired and held by purchase from other claim owners.

The bureau has received, through the courtesy of Señor Dr. LUIS TOLEDO HERRARTE, the Minister from Guatemala, a copy of the new code in English. It is hoped that a supply of the English edition will be obtained from the Government of Guatemala sufficient to distribute the new law to all those specially interested in mining in that country.

# SUBJECT MATTER OF CONSULAR REPORTS

REPORTS RECEIVED TO JULY 15, 1909.

Title.	Date of report.	Author.
ARGENTINE REPUBLIC.		
Argentine trade notes.....	Apr. 20	R. M. Bartleman, Consul-General, Buenos Aires.
Do.....	Apr. 28	Do.
Rural statistics of Argentine Republic.....	Apr. 29	Do.
Progress of passenger trade between Europe and Argentine Republic. Proposed establishment by the Seetransport Gesellschaft, of Hamburg, of a regular service between Marseilles and Montevideo, Buenos Aires and Rosario, calling at Genoa only. Launching of the "Frisia," a new steamer of the Argentine and Brazilian service. First voyage to Buenos Aires of the "Vasari," a new steamer of the Lamport & Holt Line. Yield of the vineyards during the season of 1909. Preparation and collation of German exhibits for the various exhibitions to be held in Buenos Aires in 1910. Sales of Argentine horses in Europe. Importation by the Argentine Government of 10,000 oysters from Arcachón, France. New method of packing wool.	May 6	Do.
Foundation of National Institute for the Blind in Argentine Republic.	May 13	Do.
Population of Buenos Aires on May 1, 1909. Establishment of six years' course for the training of hydraulic engineers in the University of La Plata. Increase in paper importations for newspapers into Argentine Republic. Annulment of negotiations recently begun between the municipality of Buenos Aires and the agents of Baring Bros. & Co. for a loan. Proposed regulation of migration of labor from Europe. Wheat and alfalfa crops. Erection of three hospitals at Salta. Organization of courses in university extension in the University of Cordoba, and the erection of a new building.	...do....	Do.
Transmitting several copies, in English and Spanish, of the prospectus of the international agricultural exposition to be held under the auspices of the Argentine Government by the Argentine Rural Society from June 3 to July 31, 1910, in connection with the centenary of the Argentine Declaration of Independence.	May 18	Do.
Tenders for port works of Buenos Aires and ship canal of Parana de las Palmas.	...do....	Do.
Meat exports of Argentine Republic.....	May 19	Do.
Forwarding copy of a list of all the catalogues of American goods received by the Fuller Argentine Express Co.	May 24	Do.
Trade notes.....	May 26	Do.
BRAZIL.		
Engines, boilers, and accessories in Brazil.....	Apr. 5	G. E. Anderson, Consul-General, Rio de Janeiro.
Agriculture in Brazil.....	...do..	Do.
Cotton trade of Brazil in 1908.....	Apr. 10	Do.
Agricultural growth in Brazil.....	Apr. 12	Do.
Report on investigation by photographic expert.....	...do....	G. A. Chamberlain, Consul, Pernambuco.
Trade situation in Brazil.....	Apr. 13	G. E. Anderson, Consul-General, Rio de Janeiro.
Review of foreign commerce of 1908 at Santos.....	Apr. 14	Dirk P. de Young, Vice-Consul, Santos.
TRADE NOTES.—Jute culture in the State of São Paulo. New harbor for Joinville, one of the principal exporting and importing cities of the State of Santa Catharina.		
Plumbing supplies and sanitary fittings in Rio de Janeiro.	Apr. 16	G. E. Anderson, Consul-General, Rio de Janeiro.

*Reports received to July 15, 1909—Continued.*

Title.	Date of report.	Author.
BRAZIL—continued.		
Crisis in Brazilian manganese mining.....	Apr. 19	G. E. Anderson, Consul-General, Rio de Janeiro.
Orchid trade in Pernambuco.....	Apr. 22	G. A. Chamberlain, Consul, Pernambuco.
Freight rates in Brazil.....	Apr. 26	Dirk P. de Young, Vice-Consul, Santos.
Three pointers to American exporters.....	do	Do.
BRAZILIAN TRADE NOTES.—American sponge interests in Brazil and other South American points. Concession to an American syndicate for the inauguration of a telephone service between several cities of the State of Rio de Janeiro. Progress made in the electrification of the street railways of Rio de Janeiro. Development of the rice trade in the State of São Paulo. Proposed organization of the Territory of Acre in Brazil into a self-governing territory. Imports and exports of the Santos or São Paulo district for the first three months of 1909. Indications of good sugar and cotton crops in Brazil during the current season. Improvement and increase in shipping between European and Brazilian ports. Contract for construction of a railway from São Sebastiao to the frontier of the State of Minas. Shipments of coffee from the State of Victoria. Increased service of the São Paulo-Matto Gross Transportation Co. Letting of contract by the West of Minas Railway for rails, bridges, and materials. Freight rates from Brazilian ports to New York and New Orleans.	Apr. 27	G. E. Anderson, Consul-General, Rio de Janeiro.
Telephones in Brazil.....	Apr. 28	Do.
Brazilian and Portuguese cacao.....	Apr. 29	Do.
The drug trade of Bahia.....	do	T. B. Taylor, Vice-Consul, Bahia.
New coffee crop. Weather and prospects. Proposed establishment of mortgage bank.....	Apr. 30	Dirk P. de Young, Vice-Consul, Santos.
Exports of rubber from Para and Manaus to America during the month of April, 1909.....	May 1	G. H. Pickerell, Consul, Para.
Brazil's stupendous iron-ore deposits.....	do	G. E. Anderson, Consul-General, Rio de Janeiro.
Annual report on commerce and industries.....	May 3	Dirk P. de Young, Vice-Consul, Santos.
Bahian timbers.....	May 8	P. P. Demers, Consul, Bahia.
Amount of coffee carried by different ship companies. Santos port statistics, first quarter 1909; wireless-telegraph station at Monte Serrate.....	May 10	Dirk P. de Young, Vice-Consul, Santos.
Immigration in Brazil.....	do	Do.
Motor boats in Brazil in 1900.....	May 12	Do.
Forwarding circular relative to new steamship Vasari, of the Lamport & Holt Line.....	May 13	Do.
New import-tax law.....	May 19	Do.
Glazed tiles prohibited.....	May 21	G. A. Chamberlain, Pernambuco.
Foreign banking in Brazil.....	do	Do.
American coal in Brazil.....	May 25	G. E. Anderson, Consul-General, Rio de Janeiro.
TRADE NOTES.—Dumont coffee. New coffee crop. The "Mojollo," a primitive arrangement used for preparing corn meal. Discovery of petroleum. Silk-thread industry. Auto drays in Santos.	May 28	D. P. de Young, Vice-Consul, Santos.
BRAZILIAN TRADE NOTES.—Brazilian budget for 1910. Common school education in Brazil. Government roads built in Acre in 1908. Consumption of cacao in Europe and United States in 1908. Tax on coffee exported from São Paulo. Port works and railway extensions in progress of construction in Brazil.	May 29	G. E. Anderson, Consul-General, Rio de Janeiro.
Exposition of sanitary appliances.....	June 1	Do.
Statistics showing the exportation of crude rubber from Para for the month of May, 1909.....	June 12	G. H. Pickerell, Consul, Para.
Malt and hops in Brazil.....	May 26	G. E. Anderson, Consul-General, Rio de Janeiro.
CHILE.		
Shortage of railroad ties in Chile.....	Apr. 10	A. A. Winslow, Consul, Valparaiso.
Chilean industrial improvement.....	do	Do.
Production of tin in Bolivia.....	do	Do.
Railroad development in Chile.....	do	Do.
Railroad construction during 1908.....	Apr. 19	Do.
Tannin extract for tanning.....	Apr. 27	Do.
Butterine.....	May 6	Do.
A northern trans-Andean railway.....	May 7	Do.
Trade in hides.....	May 13	Do.
Lack of rain in Chile.....	June 1	Do.
Unsettled condition of nitrate business.....	do	Do.

## Reports received to July 15, 1909—Continued.

Title.	Date of report.	Author.
COLOMBIA.		
Platinum in Colombia.....	Mar. 4	Jay White, Consul-General, Bogota.
Earthquakes in Colombia.....	Mar. 25	Do.
Petroleum in Colombia.....	Mar. 29	Do.
Petroleum in Colombia (supplementing previous report of March 29).....	Mar. 31	Do.
List of duties on whiskies, wines, liquors, etc.....	May 8	E. Betts, Vice-Consul, Bogota.
Reduction in customs tariff on bicycles and velocipedes.....	May 18	A. L. Burnell, Vice-Consul, Baranquilla.
Interesting facts about Colombia.....	do.....	E. Betts, Vice-Consul, Bogota.
Perpetuity of trade-marks in Colombia.....	do.....	Do.
Government publications, American periodicals, commercial reviews, and catalogues of American manufacturers for the Medellin Consular Agency.....	May 21	A. L. Burnell, Vice-Consul, Baranquilla.
Climatic conditions and prospects for fruit trees, forest-tree seedlings, and ornamental stock in Colombia.....	June 5	Do.
Colombian market for fertilizers and materials for their manufacture.....	June 8	Do.
DOMINICAN REPUBLIC.		
Notes from Santo Domingo.....	May 4	Ralph J. Totten, Consul.
ECUADOR.		
Vegetable ivory nut.....	Apr. 5	H. R. Dietrich, Consul.
Market for men's ready-made clothing.....	Apr. 8	Do.
Duties on graphite products.....	Apr. 12	Do.
Information concerning Ecuador.....	Apr. 19	Do.
Contract granted for drainage and water supply of the port of Bahía de Caraquez.....	May 17	Do.
HONDURAS.		
Changes in importation and exportation duties.....	May 11	W. F. Alger, Consul, Tegucigalpa.
MEXICO.		
Annual report for 1908.....	Apr. 20	A. T. Haeberle, Consul, Manzanillo.
Matamoros notes.....	May 3	S. T. Lee, Consul, Nogales.
Market for canned peaches, apricots, and tomatoes.....	May 4	Do.
Agricultural enterprises.....	May 10	P. M. Griffith, Consul, Tampico.
Mexican-grown tomatoes.....	May 18	S. T. Lee, Consul, Nogales.
Underground wires in Guadalupe.....	May 29	S. L. Magill, Consul, Guadalupe.
Commerce and industries.....	June 1	L. Hostetter, Sonora, Mexico.
Annual commercial report.....	June 11	C. L. Livingston, Salina Cruz.
The small investor in Mexico.....	June 14	W. W. Canada, Consul, Veracruz.
Exports from Nuevo Laredo to the United States for the calendar years 1907 and 1908.....	June 17	A. B. Garrett, Consul, Nuevo Laredo.
NICARAGUA.		
Suspension of the law providing for the establishing of an office of chemical analysis in Nicaragua.....	Apr. 29	J. de Olivares, Consul, Managua.
Decree reforming tariff on kerosene in Nicaragua.....	May 7	Do.
Requirements for the practice of medicine.....	May 12	Do.
PANAMA.		
Reopening of a rubber plantation near the city of Panama.....	June 4	C. E. Guyant, Consul-General, Panama.
PARAGUAY.		
Substitute for glue in organ manufacture; piano and organ trade of Paraguay.....	Apr. 3	E. J. Norton, Consul, Asuncion.
Dental supplies for Paraguay.....	Apr. 5	Do.
Translation of a bill presented for the consideration of the Paraguayan Congress establishing a monetary unit and introducing several modifications in the charter of the Bank of the Republic.....	Apr. 6	Do.
Proposed loan for Paraguay.....	do.....	Do.
Résumé of the message of the President of Paraguay delivered at the opening session of Congress, April 1, 1909.....	Apr. 12	Do.
Railway progress in Paraguay.....	Apr. 19	Do.
Trade of Paraguay in wines, spirits, beers, mineral waters, etc.....	Apr. 21	Do.
Waterproof garments, rubber overshoes, and umbrellas in Paraguay.....	May 10	Do.
Paraguay: Beef freezing and meat extract plant.....	May 19	Do.

*Reports received to July 15, 1909—Continued.*

Title.	Date of report.	Author.
PERU.		
Commerce and industries of Peru for 1908.....	June 6	S. M. Taylor, Consul-General, Callao.
SALVADOR.		
Suggestion to shippers.....	May 3	A. H. Frazier, Consul-General, San Salvador.
Exports to the United States.....	May 12	Do.
URUGUAY.		
Rural Uruguay.....	Mar. 17	F. W. Goding, Montevideo.
The Guayaba, a luscious native Uruguayan table fruit.	Mar. 25	Do.
Steamship communication of Uruguay.....	Mar. 19	Do.
Sources of imports into Uruguay for first quarter of 1909.	Apr. 9	Do.
Perfumery trade in Uruguay.....	Apr. 10	Do.
Foreign vessels carry all American goods to Uruguay..	Apr. 12	Do.
New labor-accident law for Uruguay.....	May 7	Do.
VENEZUELA.		
Contract for the construction of a pier and light-house at Adicora.	Apr. 28	I. A. Manning, Consul, La Guaira.
Extension of period for free introduction of apparatus for calorification of alcohol.	Apr. 26	Do.
Tariff decisions in Venezuela.....	Apr. 28	Do.
Statistics of dry hides exported during the years 1907-8.	May 4	H. R. Wright, Consul, Puerto Cabello.
Rainy season; locusts.....	May 14	E. H. Plumacher, Consul.
Export duties abolished on coffee, cocoa, and hides....	May 21	Do.
Railway construction in Venezuela.....	June 3	L. A. Manning, Consul, La Guaira.
Importation from England at La Guaira by British ship from Liverpool.	June 4	Do.



# ARGENTINE REPUBLIC

## FOREIGN COMMERCE, FIRST QUARTER OF 1909.

Figures of the foreign commerce of the Argentine Republic for the first three months of 1909 show import valuations of \$73,028,538 and exports worth \$140,231,340, both branches of trade indicating gains as compared with the corresponding period of the preceding year. In imports an advance of \$2,188,318 is noted, and in exports, \$24,603,508.

Leading countries of origin for imports were: Great Britain, \$23,899,885; Germany, \$11,789,490; the United States, \$8,987,317; France, \$8,132,119; Italy, \$6,940,562; Belgium, \$3,497,577; Spain, \$2,418,283; and Brazil, \$1,857,735. All countries show decided increased shipments with Argentine destination, with the exception of Great Britain, from which country a decline of \$1,470,206 is reported. On the other hand, receipts of French merchandise advanced \$1,614,306; of United States goods, \$824,025; of Italian, \$488,019, and of Brazilian, \$459,881.

As a receiver of exports from the Republic, Great Britain stands first with \$28,453,174, a gain of \$4,734,289, followed by France with \$17,617,968, a gain of \$8,526,949; Belgium, \$13,122,235, a gain of \$3,111,930; Germany, \$12,171,651, a gain of \$2,791,089; the United States, \$6,868,980, a gain of \$4,535,642; Italy, \$4,429,899, a gain of \$2,456,501, and Brazil, \$3,906,733, a gain of \$632,877.

Shipments "for orders" are represented by \$47,983,370.

The classification of imports embraces: Live animals, \$402,103; foodstuffs, \$5,226,351; tobacco and manufactures, \$1,695,694; wines and liquors, \$3,102,604; textiles, \$17,273,537; oils, \$2,722,032; chemical and pharmaceutical products, \$2,764,769; paints and dyes, \$434,554; wood and manufactures, \$1,585,829; paper and manufactures, \$1,668,891; leather and manufactures, \$622,672; iron and manufactures, \$4,814,759; manufactures of iron and steel, \$3,311,855; other metals and manufactures, \$2,268,477; agricultural implements, \$2,396,689; transport equipment, \$3,271,724; glassware, earthenware, etc., \$6,070,169; building materials, \$5,474,598; electrical appliances, \$945,140, and miscellaneous products, \$1,976,868.

Export items include: Live-stock products, \$52,159,340, a gain of \$21,831,443; agricultural products, \$84,997,124, a gain of \$1,642,854; forest products, \$1,924,060, a gain of \$683,014; minerals, \$172,726, a gain of \$78,495; game products, \$106,750, a gain of \$11,799, and miscellaneous products, \$871,340, a gain of \$355,903.



INTERNATIONAL AMERICAN CONGRESS OF MEDICINE AND  
HYGIENE.

The International Congress of Medicine and Hygiene of 1910 will take place in the city of Buenos Aires in the month of May, on the first centenary of the revolution of 1810, under the patronage of the President of the Argentine Republic. The executive committee has for its president Dr. ELISEO CANTÓN, dean of the medical faculty in Buenos Aires, and for general secretaries Drs. LUIS AGOTE and PEDRO LACAVERA. The Congress is international in character, the Government and scientific men of the three Americas being invited.

The project and programme of the Congress are as follows:

PROJECT.

The "General Exhibition of Hygiene" will be opened in the city of Buenos Aires in May, 1910.

The "General Exhibition of Hygiene" will be universal with reference to the exhibits in connection with hygiene and international with reference to its attendance.

The "General Exhibition of Hygiene" will be divided with reference to its attendance and its competition for prizes in the following manner:

First. National competition.

Second. International Latin-American competition.

Third. General competition.

The competitors in the national competition will be the exhibitors of the Argentine Republic with exhibits produced and manufactured exclusively in the country.

The competitors in the International Latin-American competition will be those of all the Latin-American nations with exhibits produced or manufactured exclusively in their respective countries.

The competitors in the general competition will be those of all the other nations of the world and of the Argentine Republic and the other Latin-American nations who in an especial way manifest their desire to enter in it.

The competitors of the Argentine Republic with exclusively national products and those of Latin America in the same conditions will receive the necessary space for their installations, covered and free of charge. The installations will be at their own expense.

The competitors of the other nationalities will receive the space necessary for their installations free of charge, and in case they need covered space such will be at their own expense.

The exhibition will be eminently practical and will occupy an extensive piece of ground, with easy and frequent access, sufficient for all the installations and customary accessories in these exhibitions.

The Congress is divided into the following sections:

SECTIONS.

1. *Biological and fundamental matters.*—Bacteriology, general and experimental pathology, descriptive topographical, pathological anatomy, physiology, embryology, histology, and parasitology.
2. *Medicine and its clinics.*—Medical, therapeutical, semeiological, pediatrial, nervous and mental clinic, criminal anthropology, epidemiology, dermatology, and syfology.
3. *Surgery and its clinics.*—Surgical clinic, oto-rino-laryngological clinic, infantile surgery, oftamology, gynæcology, and genito-uritaria.
4. *Public hygiene.*—Public hygiene, dermography, sanitary organization, legal medicine, international sanitary prophylaxis, industrial hygiene, naval medicine and surgery, military medicine and surgery, scholastic hygiene, tuberculous dermography, tuberculous statistics, and social defense.
5. *Pharmacy and chemistry.*
6. *Sanitary technology.*—Engineering and architectural sciences as applied to hygiene.
7. *Veterinary police.*—Contagious diseases, veterinary medicine.
8. *Dental pathology.*
9. *Exhibition of hygiene.*

These sections can be subdivided or united if necessary.

Members of the Congress are medical men, pharmaceutical chemists, dentists, veterinary surgeons, engineers, architects, and all other professionals connected with the different sections of the Congress or who express to the executive committee their adherence in writing. Adherence can be procured also by paying the sum of £1 or \$5 gold, especially those who desire later on to receive the publications and reports of the Congress.

The papers for the Congress will be received only till the 1st of January, 1910, and if more convenient only the titles accompanied by a small extract in order to give facilities for the organization in time of the sections of the programme.

The official languages are Spanish, French, Portuguese, and English.

The executive committee has solicited from the national and foreign companies of transport especial rates for the members of the Congress and their families.

The official programme of the Congress has been supplemented by another of festivities, excursions, visits to public establishments, etc., as is usual in these cases. Very probably these latter will be of an especial brilliancy, taking into account that the date of the Congress coincides with the solemn commemoration by the Argentine



CENTENARIO  
DE LA REPUBLICA ARGENTINA  
EXPOSICION INTERNACIONAL  
DE FERROCARRILES Y TRANSPORTES TERRESTRES  
BUENOS AIRES  
MAYO A NOVIEMBRE 1910

FACSIMILE OF DESIGN USED ON POSTERS ADVERTISING THE CENTENNIAL EXPOSITION AND INTERNATIONAL EXHIBITION OF RAILWAYS AND LAND TRANSPORT, TO BE HELD IN BUENOS AIRES, ARGENTINA, FROM MAY TO NOVEMBER, 1910.

The Argentine Government has appropriated \$6,000,000 for this Exposition, and all the nations of the world have been invited to participate in exhibiting the various appliances used in railroad and other means of land transportation.

people and Government of the first centenary of the historic May revolution of 1810.

The secretary (medical faculty of Buenos Aires) will send to anyone who solicits them the bulletins, programmes, forms of membership, etc., and all other particulars about the Congress.

THE GENERAL SECRETARIES.

#### TRADE FIGURES WITH GREAT BRITAIN.

The facts and figures contained in the report of Mr. GARCIA URIBURU, Consul-General of the Argentine Republic in England, for the year 1908, serve to call attention to the preeminence of Great Britain in the trade of the Republic. During the year the importations of Argentine products reached the total of \$163,243,835. Of this amount, wheat headed the list with a value of \$65,561,075, the Argentine Republic leading in importations of this article with a total of 1,584,010,000 kilograms, nearly 30 per cent of the total importations and more than 2,000,000 kilograms in excess of its next competitor, the United States. The increase in value as compared with 1907 amounted to \$5,337,895.

The trade in frozen and refrigerated meats has grown to proportions that give this article a prominent place on the export list of the Republic. The United Kingdom is the principal consumer, its importations for the year 1908 amounting to \$43,079,910. As compared with 1907 these figures represent a gain in this line of industry of \$9,733,720. The importations for the year 1908 amounted to 179,515,350 kilograms, more than 50 per cent of the total importations into the United Kingdom from all sources, and more than twice the amount furnished by the United States, which took second place as purveyor of this article.

Argentine corn shipped to Great Britain for the year amounted in value to \$28,302,995, representing increased values as compared with 1907 of \$3,301,950. The shipments amounted to 922,890,000 kilograms, the Republic furnishing more than all other contributing nations combined, and nearly three times as much as its nearest competitor, the United States.

Importations into the Argentine Republic from the United Kingdom for the year 1908 amounted to \$43,283,380. Of this total, cotton textiles figured for \$11,707,430; coal for \$9,820,580; galvanized iron, \$4,706,955; rails \$3,112,480, and other articles for lesser amounts.

#### BOND ISSUE FOR IRRIGATION WORKS.

A bill has been introduced into the Argentine Congress providing for extensive irrigation works to be carried out by the railway companies operating in the districts of the rivers Negro, Limay, Neuquen,

Tercero, Mendoza, Atuel, Diamante, Tunuyan, Salado, and Dulce. The work is estimated to cost \$25,000,000, to cover which an issue will be made of 5 per cent bonds.

#### ESTIMATE OF CEREAL EXPORTS FOR 1909.

An estimate of the cereal surplus available for export from the Argentine Republic during 1909 fixes shipments of wheat and flour at 3,100,000 tons; linseed, 1,000,000 tons; maize, 2,600,000 tons, and oats, 800,000 tons.

#### NEW STEAMERS FOR RIVER SERVICE.

An executive decree, under date of April 14, 1909, carries the approval of the Government of the contract entered into by the Director-General of Hydraulic Works and the *Compañía Alemana de Depósitos de Carbón (Limited)*, to furnish three new steamers for service on the Bermejo River. The German Coal Company acts as the representative of the *Nordeutsche Maschinen und Armaturen Fabrick* (North German Machinery and Armature Company) of Bremen.

#### EXCLUSION OF LIVE STOCK FROM PARAGUAY.

In consequence of the reported presence of the foot-and-mouth disease in Paraguay the ports of the Argentine Republic have been temporarily closed against the importation of live stock of Paraguayan origin.

The prohibitory decree regulating the matter was issued on April 28, 1909.

#### FISHERY REGULATIONS.

The Argentine Government has issued a decree regulating the exploitation of the fishing industry in the Republic.

According to decree of April 16, 1909, all persons or enterprises engaged in maritime fisheries from the mouth of the River Plate to that of the Negro, shall obtain a permit through the Ministry of Agriculture, and the products shall be admitted at the ports of the Republic free of duty.

The Ministry of Agriculture shall acquaint the Ministry of Finance with the particulars of the permits issued so that proper measures may be taken for the free entry of the fish as national products.

# BOLIVIA

## FOREIGN COMMERCE, FIRST QUARTER OF 1909.

Figures issued by the Bolivian Department of Finance and Industry (*Hacienda é Industria*) report total exports from the Republic during the first three months of 1909 valued at 10,274,819.10 *bolivianos* (\$4,109,000), a gain as compared with the corresponding period of the preceding year of 1,684,828.46 *bolivianos* (\$773,000).

During the same quarter imports figured for 4,365,163.86 *bolivianos* (\$1,745,000), a decline as compared with the first quarter of 1908 of 3,717,598.48 *bolivianos* (\$1,480,000).

# BRAZIL

## INDUSTRIAL STATISTICS.

According to figures published in the "*Jornal do Commercio*" of June 14, 1909, and compiled by the Industrial Association of Brazil, there are at the present time in the Republic 3,258 industrial establishments, with a total capital of 665,576.603 *milreis* (\$199,672,980) and employing 151,841 operatives. The total annual production is estimated at 741,536.108 *milreis* (\$222,460,832). The distribution by States is as follows:

States.	Number of industrial establishments.	Capital.		Production.	
		Milreis.	Dollars.	Milreis.	Dollars.
Federal District.....	670	169,989,045	50,996,713	223,928,542	67,178,562
São Paulo.....	326	127,702,191	38,310,657	118,087,091	35,426,127
Rio Grande do Sul.....	314	49,205,919	14,761,775	99,778,820	29,933,646
Rio de Janeiro.....	207	86,195,457	25,858,637	56,001,868	16,800,560
Pernambuco.....	118	58,724,355	17,617,306	55,206,293	16,561,887
Parana.....	297	20,841,000	6,252,300	33,085,200	9,925,560
Minas Geraes.....	531	27,750,372	8,325,111	32,919,694	9,875,908
Bahia.....	78	27,643,200	8,292,960	25,077,962	7,523,388
Para.....	54	11,483,000	3,444,900	18,203,000	5,460,900
Sergipe.....	103	14,172,858	4,251,857	14,811,105	4,443,331
Santa Catharina.....	173	9,674,000	2,902,200	14,144,410	4,243,323
Amazonas.....	92	5,484,000	1,645,200	13,962,000	4,188,600
Alagoas.....	45	10,787,887	3,236,366	10,366,310	3,109,833
Maranhao.....	18	13,245,250	3,973,575	6,840,332	2,052,000
Matto Grosso.....	15	13,650,000	4,095,000	4,450,000	1,335,000
Parahyba.....	42	5,367,751	1,610,325	4,387,921	1,316,376
Rio Grande do Norte.....	15	6,913,000	2,073,900	3,086,485	925,945
Ceara.....	18	3,521,000	1,056,300	2,951,100	885,330
Goyaz.....	135	1,617,000	485,100	2,476,500	742,950
Piauhy.....	3	1,310,878	393,263	1,192,975	357,892
Espirito Santo.....	4	298,060	89,400	578,500	173,650

The following table shows the capital and production of 38 leading industries of Brazil:

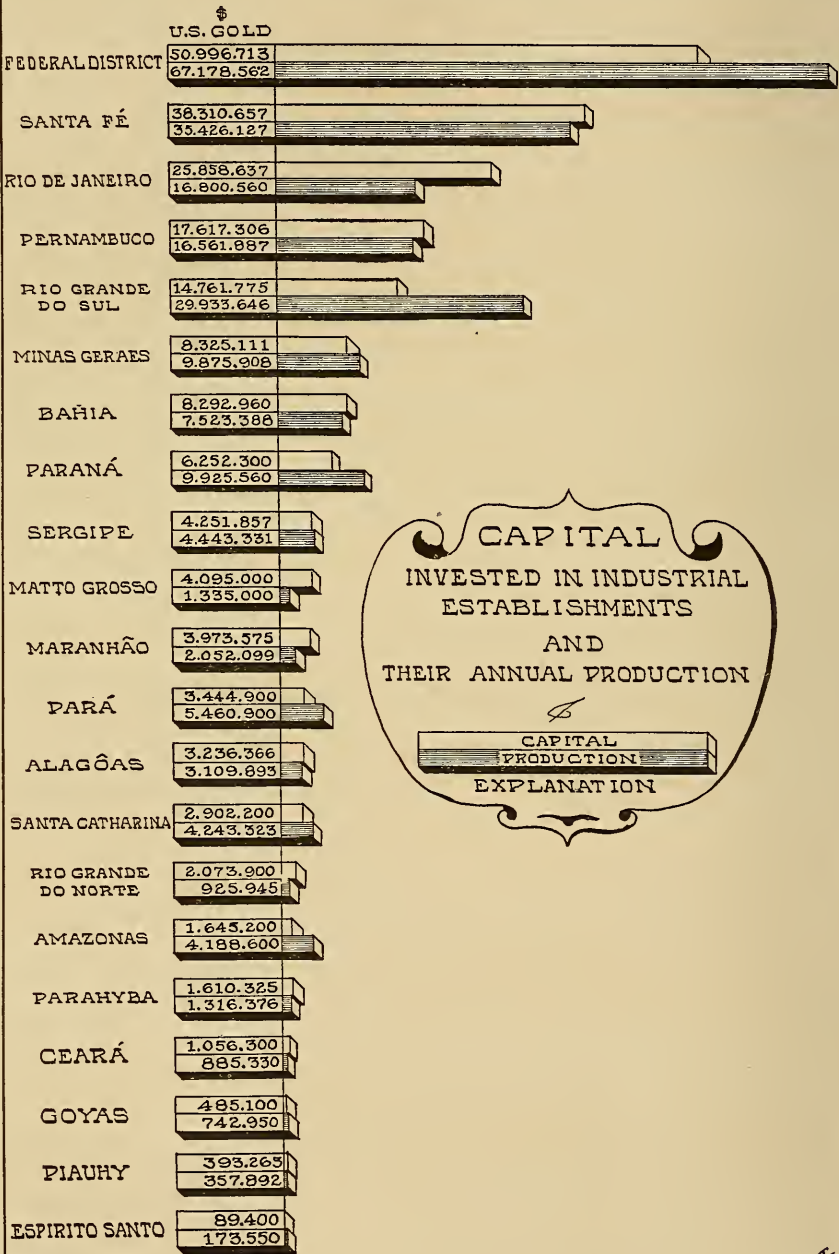
Industries.	Capital.	Production.
	<i>Milreis.</i>	<i>Milreis.</i>
Textiles.....	268,870,903	171,110,918
Sugar.....	74,061,589	67,257,368
Beer.....	27,556,800	22,686,290
Smelters.....	22,964,000	31,625,240
Matches.....	17,000,000	21,275,000
Flour mills.....	16,416,300	39,359,500
Soap and candles.....	15,145,000	22,089,715
Sawmills and carpentry shops.....	14,488,000	31,379,000
Maté.....	14,250,000	22,573,000
Cigars.....	12,950,912	20,318,785
Lime and cement.....	11,259,500	4,976,340
Pottery.....	10,547,300	10,363,000
Sugar refineries.....	10,487,780	15,413,760
Hats.....	10,417,000	15,381,200
Shoes.....	10,117,000	26,726,000
Salt.....	9,461,000	3,126,368
Tanneries.....	9,485,000	15,001,100
Railway material.....	8,420,000	11,013,884
Alcoholic and gaseous beverages.....	6,630,971	9,211,658
Chemical products.....	6,502,000	10,212,000
Dried beef.....	6,277,000	38,769,300
Furniture.....	6,033,000	11,760,000
Paper and paper articles.....	6,083,000	3,987,000
Lard.....	4,350,000	13,485,000
Oil and rosins.....	3,800,800	4,498,646
Parasols.....	3,221,000	3,720,000
Underwear.....	3,151,000	6,208,500
Butter and cheese.....	2,996,700	6,998,740
Glassware.....	2,075,000	3,638,000
Wine.....	2,877,500	4,870,340
Food pastes.....	2,602,200	3,897,485
Harness and saddlery.....	2,517,000	4,448,000
Chocolate.....	2,435,000	3,680,000
Naval construction.....	2,915,000	5,786,000
Biscuits.....	1,995,000	3,282,000
Confectioneries.....	1,998,000	4,208,000
Tiles.....	1,826,000	3,309,000
Tin articles.....	1,740,000	3,669,000

The capital invested in the textile industry represents 40 per cent of the total industrial capitalization of Brazil. The textile manufactures comprise cotton, jute, woolen, linen, silk, and aramina fabrics.

The number of cotton mills is stated as 161, with a capital of 234,028,403 *milreis* (\$70,208,520) and an annual production of 135,025,668 *milreis* (\$40,507,700). The number of mills and the amount invested in this industry in the different States is as follows: Minas Geraes, 36 mills, capital 17,284,372 *milreis*; Sao Paulo, 23 mills, capital, 38,946,190 *milreis*; Rio de Janeiro, 19 mills, capital, 43,899,457 *milreis*; Federal District, 15 mills, capital, 70,452,259 *milreis*; Bahia, 12 mills, capital, 15,758,400 *milreis*; Maranhao, 12 mills, capital, 10,482,900 *milreis*; Ceara, 2,405,000 *milreis*. The remaining States have about 1,000,000 *milreis* each invested in this industry.

The jute mills of Brazil are next to the cotton mills in importance, both as regards the number and amount invested. The total investment in the jute industry is estimated at 15,799,500 *milreis*, with a total output valued at 22,389,730 *milreis*.

# - BRAZIL -



CAPITAL  
INVESTED IN INDUSTRIAL  
ESTABLISHMENTS  
AND  
THEIR ANNUAL PRODUCTION

CAPITAL  
PRODUCTION

EXPLANATION

1888

246



The woolen industry occupies third place in textile manufactures, with a total capital of 14,848,000 *milreis*. According to statistics obtained from 15 woolen mills, the annual production is worth 11,375,000 *milreis*, and the number of employees is 1,957.

The total amount invested in the silk industry in Brazil is estimated at 965,000 *milreis*. The annual output of the silk mills is valued at 1,042,320 *milreis*, while there are 244 persons employed in this industry. Of these mills, 2 are located in the State of Rio de Janeiro, 1 in Rio Grande do Sul, 1 in Sao Paulo, and 1 in Santa Catharina.

There are 2 linen mills in operation, with a total capital of 1,230,000 *milreis*, and a mill which manufactures the aramina fiber, with a capital of 1,500,000 *milreis*.

The power employed in the operation of these industrial establishments represents a total of 192,284 horsepower. The motive power used is electricity, steam, hydraulic power, gas, and kerosene.

The following are the leading industries in the different States:

*Alagoas*.—Cotton goods, sugar.

*Amazonas*.—Foundries, sacks, and bags, tin-plate goods, crackers and confectionery, chemical products, sawmills and carpentry shops.

*Bahia*.—Cotton goods, tobacco products, sugar, hats.

*Ceara*.—Cotton goods.

*Federal District*.—Cotton goods, flour mills, sawmills, carpentry shops, shoes, sugar refineries, foundries, railway material, beer, furniture, chemical products, alcoholic and gaseous beverages, hats, and parasols.

*Espirito Santo*.—Cotton goods.

*Goyaz*.—Sugar, butter and cheese, crackers, tobacco manufactures.

*Maranhao*.—Cotton goods, sugar.

*Matto Grosso*.—Maté, dried beef, meat extract, sugar.

*Minas Geraes*.—Cotton goods, butter and cheese, foundries, beer, tanneries, flour mills, pottery.

*Para*.—Sawmills and carpentry shops, beer, butter and cheese, foundries, chocolate.

*Parahyba*.—Cotton goods, sugar.

*Parana*.—Maté, matches, sawmills, and carpentry shops.

*Pernambuco*.—Sugar, cotton goods, soap and candles, lime and cement, foundries, tobacco manufactures, sugar refineries, chemical products.

*Piauhy*.—Cotton goods.

*Rio Grande do Norte*.—Salt, cotton goods, sugar.

*Rio Grande do Sul*.—Dried beef, lard, woolen goods, tanneries, wines, hats, flour mills, beer, tobacco manufactures, cotton goods, shoes, canned meat and fish, foundries, soap and candles, furniture and decorations.

*Rio de Janeiro*.—Cotton goods, sugar, matches, salt, foundries, tobacco manufactures, naval construction, tanneries.

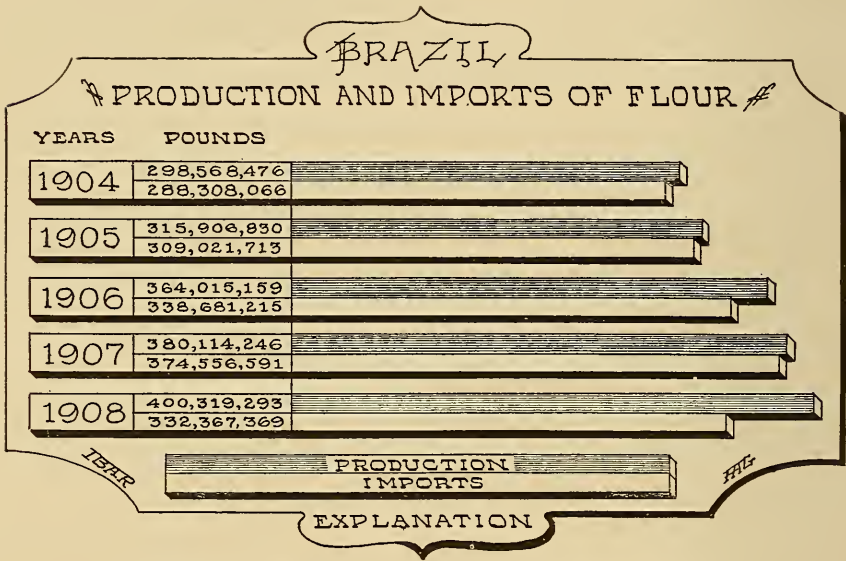
*Santa Catharina*.—Maté, lard, butter and cheese, foundries.

*São Paulo*.—Cotton goods, jute goods, flour mills, foundries, sugar, shoes, pottery, hats, beer, sawmills and carpentry shops, matches, tanneries, paper and paper objects, glassware.

*Sergipe*.—Sugar and cotton goods.

The production of flour is increasing constantly. Since 1904 the national production has exceeded the imports of this article, as may be seen from the following table:

Year.	Production.	Imports.
	<i>Kilos.</i>	<i>Kilos.</i>
1904.....	135,712,944	131,049,121
1905.....	143,594,014	140,464,415
1906.....	165,461,436	153,946,007
1907.....	172,779,203	170,252,996
1908.....	181,963,315	151,076,077



FOREIGN COMMERCE, FIRST QUARTER OF 1909.

Brazilian statistics report for the first quarter of 1909 imports into the Republic to the value of \$43,200,000, as compared with \$50,500,000 in the same period of 1908, and exports for the two quarters of \$81,500,000 and \$56,500,000, respectively.

Coffee, rubber, tobacco, sugar, and hides and skins are the items responsible for the increased export valuations for the quarter of 1909, as is shown by the following comparative statement of leading exports:

	First quarter.	
	1908.	1909.
Coffee.....	\$28,500,000	\$40,500,000
Rubber.....	17,000,000	27,500,000
Tobacco.....	690,000	2,900,000
Sugar.....	85,000	600,000
Maté.....	1,525,000	1,500,000
Cacao.....	3,200,000	2,100,000
Cotton.....	550,000	300,000
Hides and skins.....	2,400,000	3,400,000

**BAHIA, THE CACAO-PRODUCING STATE.**

From the State of Bahia comes fully 80 per cent of the cacao produced in Brazil, whose exportable surplus in 1908 amounted to nearly 70,000,000 pounds, or over one-fifth of the world's supply. For 1909 it is estimated that this total will be exceeded by at least 2,000,000 pounds, as for the first three months of the year exports were reported of over 18,000,000 pounds.

The total area under this production is estimated at about 40,000 acres, with 10,000,000 trees in bearing. The average yield of each tree in its maturity is about 6 pounds of dried beans each season under present condition, though the production might be greatly augmented by cultivation. One estate reports a yield of 30 pounds per tree under favorable conditions.

The increase in output has been very marked for the past three years, and the area of land suitable for cacao growing in the State is practically unlimited, so that there is every reason to believe that the increase will be maintained. The culture entails a minimum of labor and trouble on the planter, but the transport of the product is handicapped by lack of facilities.

The prepared cacao is conveyed on mule back to the nearest navigable river, where it is embarked in canoes for conveyance to the mouth of the river, whence it is shipped, mostly in native sailing craft, to the city of Bahia, which is the distributing and receiving center for the industry.

A railway line about 30 miles in length has been projected for the benefit of cacao transport, of which about one-half will be completed during the present year. The British Consul at Bahia reports that the government of the State will assist in the furtherance of any projected railroad destined to advance the industry by the granting of a substantial subsidy in connection with the necessary concession.

**OPERATION OF THE IMMIGRATION SERVICE.**

The elaborate immigration system of Brazil is satisfactory. The annual message of President PENNA to the Brazilian Congress states that the number of persons entering the country in 1908 was 112,234, of which 17,539 were ordinary passengers and 94,695 were immigrants. Compared with the previous year there was an increase of 26,908 immigrants, or about 40 per cent. The number of immigrants coming on their own initiative was 74,999, and those brought in at the expense of the Union numbered 11,109. The growth in immigration has continued into the present year, as is seen by the figures for the first quarter in the port of Rio de Janeiro only, the number being 13,580, as compared with 8,607 in 1908 and 5,943 in 1907. In spite of the meager sum appropriated for this service it has been carried on

with due regularity, both as to the reception of immigrants in the ports and as to their settlement in the States.

#### RAILWAYS.

The total increase in railway construction in Brazil during 1908 amounted to 1,019 kilometers (633 miles). The total length of railways in operation in the Republic at the close of 1908 was nearly 12,000 miles.

Work progressed rapidly on the Madeira-Mamore Railway, and its early completion is predicted. The Government has entered into a contract with the Madeira-Mamore Railway Company for the lease of this line.

Work is progressing on the railway connecting Alcobaca with Praia da Rainha, the first section, between Alcobaca and Bren Branco, 43 kilometers (27 miles) in length, being already finished and open to traffic.

Construction work on the railway between São Luiz and Caxias was begun on January 24, 1909, and by the terms of the contract must be completed within forty months from this date. The line will have a length of 393.7 kilometers (244 miles).

The surveys for the line from Cratheus to Therezina and branch to Amarração, having a total length of 595 kilometers (369 miles), have been approved.

Construction work on the railway connecting Sobral with Cratheus was begun June 11, 1908.

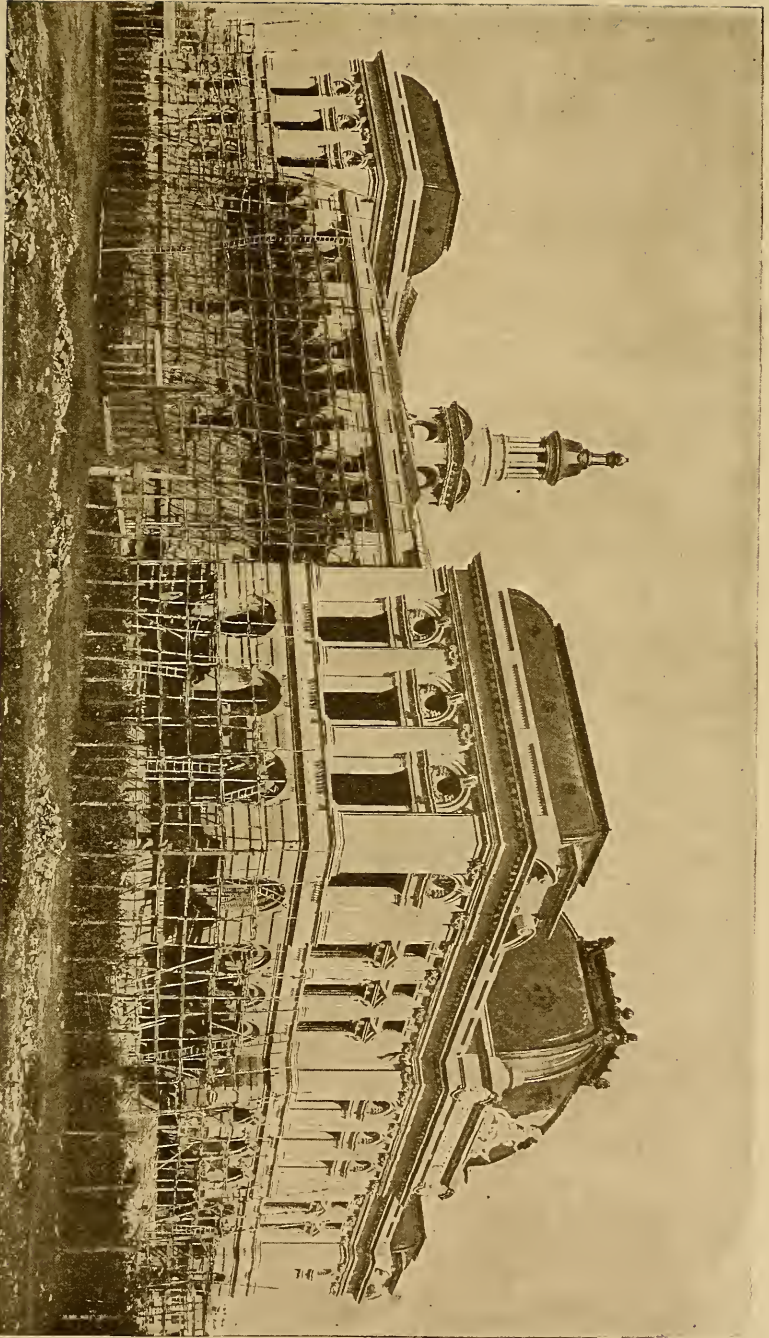
Work has progressed rapidly on the extension of the Baturite Railway, and a section 48 kilometers (30 miles) in length has been opened to traffic. Surveys were made for lines connecting this railway with the Pernambuco and Bahia systems. Surveys were also made to connect with the Sobral and Rio Grande do Norte Central railways, so as to establish direct communication along the coast between Rio de Janeiro and Maranhao.

Work continued without interruption during 1908 on the Central Railway of Rio Grande do Norte. A section of this line has already been opened to traffic and another section 75 kilometers (46 miles) long is in process of construction.

The Government has entered into a contract for the construction of the remaining sections of the Timbo-Propria line, of which 27 kilometers (16 miles) have already been concluded.

The contracts for the lease of the Bahia-São Francisco Railway and the Bahia Central have been annulled.

Surveys have been made for a line to connect Formosa, on the left bank of the Preto River, in the State of Bahia, with a point to be determined on the Balsas River in the State of Piahy, and a branch in the State of Goyaz, for the purpose of connecting by rail the



THE NEW LAW SCHOOL BEING ERECTED AT PERNAMBUCO, BRAZIL.

valleys of the Tocantins and Parnahyba rivers with the valley of the São Francisco.

The definite survey of the line between Jequie and Derrubadinha, connecting the Bahia and Minas Geraes systems, has been concluded, the original route, which was 1,052 kilometers (652 miles) long, having been shortened by 159 kilometers (98 miles).

The railway connecting Victoria with Diamantina, of which 279 kilometers (172 miles) are already in operation, will soon be finished as far as Derrubadinha.

The Leopoldina Railway Company has begun the construction of the line connecting Mathilde with Muniz Freire.

Work is progressing satisfactorily on the extension of the Central Railway and on the branch line to Sant'Anna dos Ferros.

The work of widening the gauge of the São Paulo Railway has been concluded.

The definite surveys of the lines connecting Bello Horizonte with the Goyaz Railway and Carrancas with Cedro have been concluded. A contract was entered into for the construction of the sections between Bello Horizonte and Albêrto Isaacson and between Carrancas and Bom Jardim, work on the former having already been begun.

A section of the Goyaz Railway extending from Formiga to Porto Real, having a length of 63 kilometers (39 miles), was opened to traffic during the year.

The branch of the Sorocabana Railway extending to Itarare has been opened to traffic, thus establishing direct railway communication between Rio de Janeiro and the southern States. Work is progressing rapidly on the Paranapanema line, a section being already in operation as far as Ilha Grande.

Work on the São Paulo-Rio Grande Railway was prosecuted vigorously during the year, so that its termination within the time specified in the contract seems assured.

Work was begun on the railway connecting Passo Fundo with the Uruguay River. This line must be in operation by September 30, 1910.

Work is progressing satisfactorily on the lines in Rio Grande do Sul, which are being built by the *Compagnie Auxiliaire des Chemins de Fer au Brésil*. It is expected that the line between Saycan and Santa Anna do Livramento will be concluded by the end of the present year.

The first section of the line from Cruz Alta to the mouth of the Ijuhy will shortly be concluded.

Work has progressed satisfactorily on the railway extending from Bauru to Itapura, which should be concluded by August of the present year.

Work on the line connecting Itapura with Corumba has been begun at each end, and every precaution has been taken to enable the line to be concluded within contract time.

#### IRON ORE IN THE REPUBLIC.

United States Consul-General GEORGE E. ANDERSON reports that the Brazilian Government has just transmitted a report, for the use of the authorities having in charge the preliminary preparations for the International Geological Congress, which meets in 1910 in Stockholm, covering certain iron-ore deposits in the Republic, the result of a survey sent out for the purpose, with a special expert at its head; and although the text of this report is withheld, pending the use to be made thereof by the authorities for whom it was prepared, enough of it has been secured by this office to predict that it will startle the iron world and be the sensation of the congress.

The examination of the deposits in Minas Geraes located 52 outcroppings of ore which was from 60 to 75 per cent pure iron, free from all impurities which might interfere with its proper smelting. Of these outcroppings the expert selected 9, of average size and quality, which he carefully surveyed and measured, calculating their contents at a little less than 1,000,000,000 tons of very high-grade ore, on or near the surface and in situations permitting easy working and economical handling. On the basis of the surveys made the 52 deposits contain a little less than 6,000,000,000 tons of the highest grade ore. In addition, loose high-grade ore was located to an amount as large as that found in the outcrops, the total high-grade ore located thus amounting to 12,000,000,000 tons.

As Brazil, for various reasons, will be unable to work these vast deposits, they have recently been visited by representatives of American and British syndicates with a view to making contracts for ore shipments, in the immediate future, from Rio de Janeiro or from Victoria, about 300 miles north of Rio de Janeiro. The only result of these visits, as far as known, is the completion of a contract between a part of one of the British syndicates and the Victoria and Diamantina Railway Company for ore shipments via Victoria.

#### APICULTURE IN THE REPUBLIC.

It is stated by United States Consul-General GEORGE E. ANDERSON that considerable effort is being made by certain Brazilian States to develop the care and culture of bees throughout various districts. The country is, as a whole, admirably adapted to apiculture, and it is designed to advance the industry to the point of making its products available for export.

Large profits are reported from the culture in Sao Paulo, Minas Geraes, Rio de Janeiro, Parana, Santa Catharina, Rio Grande do Sul, Maranhão, Ceara, and Piahy.

Exports of wax advanced from 6,932 pounds in 1901 to 15,675 in 1907, and of honey from 107,700 pounds to 327,400 pounds in the interval under consideration. These shipments are from State to State, as but very little is sent abroad as yet, and that to Uruguay.

#### INDUSTRIAL NOTES.

An English company known as the "Maranhão Public Works Company (Limited)," with headquarters in London, has been authorized to operate in Brazil. The main object of the corporation is to acquire the property and stock of the gas company of the city of Maranhão and install a gas or electric light and power plant in that city and operate the same.

An executive decree of March 18, 1909, authorizes the Minister of Industry and Public Works to sign a contract with EMILIO SCHNOOR, for the construction of the section of railway between Alberto Isaacson and Bello Horizonte. Under the terms of the contract the work must be begun within two months from the date of the contract and finished within eighteen months.



#### TERMS OF THE ARICA-LA PAZ RAILWAY CONTRACT.

The contract awarded on May 1, 1909, for the completion of the railroad from Arica to La Paz to the London company of Sir JOHN JACKSON fixes the cost at £2,750,000, not including branch lines.

The line is to be constructed in two sections: The Chilean, from Arica to the Bolivian frontier, at a cost of £1,645,000; and the Bolivian section, from the frontier to La Paz, at a cost of £1,105,000.

It is stipulated that the entire work shall be completed in three years and the Chilean section in thirty months. A fine of £3,000 is to be imposed for each month's delay in delivering the work and a corresponding premium paid for advance delivery.

The materials required for the work and its exploitation are to be admitted free of duty both in Chile and Bolivia.

#### REPORT OF THE ADVISORY BOARD OF THE NITRATE COMBINE.

The report submitted by the advisory board of the Chilean nitrate combine recommends, among other things, the abolishing of the



export duty imposed by the Government on the output of the combine; the creation of an arbitral board for the adjustment of pending questions; the continued exploitation of the present properties of the syndicate and the investigation of the new deposits at Tarapaca and Antofagasta; the creation of a fund for the purpose of making a vigorous propaganda of the nitrate industry and opening new markets, the fund to be derived from an allotment of 1 penny per quintal on the output of the syndicate.

#### EXPORT MOVEMENT, FIRST QUARTER OF 1909.

Chilean exports during the first three months of 1909 had a valuation of ₡61,601,804 (\$22,484,658), against ₡82,541,954 (\$30,128,013) in the corresponding period of the preceding year. A decline to the amount of \$7,643,355 is thus indicated in the quarter's shipments.

The decrease is largely attributable to the reduced exports of mineral products (amounting to over \$8,000,000), which showed a marked decline in January and February, though the March shipments equaled those of the same month in 1908.

A falling off of 23 per cent is noted as regards nitrate shipments compared with the same period of 1908.

Vegetable products sent abroad, on the other hand, show a gain of \$586,400 for the quarter.

In customs receipts a 20 per cent decline is reported for the three months as compared with 1908, or a total loss of \$2,797,300.

Reporting on the trade outlook, United States Consul ALFRED A. WINSLOW states that the present is a suitable time for United States enterprises to interest themselves in Chilean matters, as the feeling between the two countries is noticeably friendly, and that American interests are making a good showing in the country.

#### INDUSTRIAL DEVELOPMENT.

In connection with the marked development in industrial enterprises throughout Chile, United States Consul ALFRED A. WINSLOW reports the construction of the first steel plant south of Mexico at Corral, which will be ready for operation early in 1910. The plant will have a capacity of 200 tons daily and represents the expenditure of \$2,000,000. It is backed by French capital, and the machinery will be mainly obtained from France.

Within 5 miles of the plant a fine quality of iron ore is obtained, and transport to the works will be made by means of an overhead cable.

A few months ago a large cement plant was opened at Calera, with an output sufficient for home consumption, and it is hoped to establish government car works, where all the rolling stock for state

railways can be manufactured. The Government is actively interested in these developments, and at the present time machinery is on the free list of the country.

It is noteworthy that machinery and fuel were import items showing an advance in 1908, in the first named an increase of \$1,965,871 being reported and in the second \$1,916,579.

#### THE IRON INDUSTRY.

Mr. CH. VATTIER, of Santiago, Chile, publishes an interesting article in the "*Boletín de la Sociedad de Fomento Fabril*," of March 1, 1909, on "Iron in Chile," in which he says that iron ore is pretty generally distributed in that country, being more abundant in the northern than in the southern part of the Republic. Some of the principal deposits are near Taltal and Copiapo, and the iron mines of the Departments of Vallenar and Freirina are said to be inexhaustible. Great iron deposits are also found in the Province of Coquimbo, near the port of the same name, and at Aguas Buenas, El Dorado, and Tofo, near the Cruz Grande Bay. Other iron outcroppings worthy of mention are those at Curico, near Illapel; those of Pelhuen, in the Province of Santiago; and at Dumuno, near Quinteros.

Up to the present time little use has been made of Chilean iron ore, except to employ it as a flux in smelting certain grades of silver and copper ores. Many of the iron ores of the Republic contain a small percentage of copper. IGNACIO DOMEYKO, a Polish scientist and teacher in Chile, used to say that "Many hills have heads of iron and hearts of copper" (*Muchas sierras tienen sombreros de fierro y corazón de cobre*), to indicate the tendency of the iron ores of Chile to increase their percentage of copper with the depth of the vein or deposit. Chilean iron ores are especially desirable as fluxes for smelting ores containing the precious metals, inasmuch as the former have very small percentages of silica, sulphur, and phosphorus.

The smelting of iron ore in South America for commercial purposes was first established at Buena Esperanza, Province of Minas Geraes, Brazil. In 1885 the "*Sociedad de Fomento Fabril*" and later the "*Sociedad de Minería*" advocated the smelting of iron ore in Chile, and finally its use for this purpose was begun under the administration of President JOSÉ MANUEL BALMACEDA. After twenty years of study, trial, and experiment, the smelting of iron ore in the Republic seems to have become an established industry. An iron smelter is now being erected at the port of Corral, in the Province of Valdivia, where the production of pig iron, wrought iron, steel, and other kindred products will be carried on. The actual consumption of steel in Chile is estimated at about 100,000 tons annually, and this consumption will greatly increase with the construction of the longitudinal and other railways by the Chilean Government, and should there be a surplus after supplying the home needs, a ready

market for the overproduction could be encountered in the Argentine Republic, which consumes more than 700,000 tons of iron and steel annually.

With the development of the smelting industry in Chile, use will be found for the wolfram of Bolivia, and the vanadium and uranium of Peru.

The Corral smelter will be producing iron ingots by the latter part of this year or early in 1910. Preparations are being made for the loading and unloading of vessels in the Valdivia River at Corral, and ample railway transportation facilities are being arranged for. Buildings for the housing of workmen, and all the construction necessary for the erection and operation of a large smelting plant will be completed at an estimated cost of more than 10,000,000 *francs* (\$1,930,000). Ore from the mines, which are 8 kilometers (5 miles) distant from Corral, and wood from the neighboring forests will be transported to the smelter by overhead cables, and the most modern methods and best facilities for mining, smelting, manufacturing, and handling of the products will be made use of.



#### ENGLISH READING ROOM AT MEDILLIN.

The State Department at Washington has been informed by ALBRO L. BURNELL, United States Vice-Consul at Barranquilla, that the Consular Agent at Medillin desires to establish a reading room in connection with the agency, for which purpose he solicits aid in furnishing suitable material.

Government documents of various kinds, periodicals, commercial reviews, and catalogues of manufacturers and similar publications would in the opinion of the agent, Mr. WRIGHT, be adapted to the needs of the community and also further trade interests. A room will be maintained for the use of the public.

Medillin is the second city in size in the Republic, with a population of 56,000, and is located in the heart of one of the wealthiest and most progressive sections of the country.

#### INTERNATIONAL STUDENTS' CONGRESS.

Plans are being made for the assembling of the First International Students' Congress of America at Bogota, Colombia, the sessions to last from July 20, 1910, until August 7. This organization has for its object the advancement of the educational movement in the Republics of Colombia, Ecuador, and Venezuela. Its membership is made up of students in the different universities of these three

Republics, who will be represented at the Congress by student delegates. The movement contemplates an annual congress to be held in different cities of South America.

#### ESTABLISHMENT OF AN OIL REFINERY AT CARTAGENA.

Local capital in the city of Cartagena has arranged for the erection of an oil refinery and warehouse in that city and the elaboration and sale of petroleum, gasoline, benzine, paraffin, grease, and oil. The plans for the new plant include a refinery, a warehouse with a capacity of 25,000 cases, and quarters for employees. The establishment of this plant represents the consummation of years of work on the part of the interests promoting it and an unshaken faith in the possibilities of this industry in Colombia.

#### RUBBER AND FORESTRY CONCESSION.

The Minister of Fomento and Public Works, on behalf of the Republic of Colombia, has entered into a contract with Miguel URIBE HOLGUIN, the representative of the French Company of the Sinu River, for the exploitation of certain portions of the public domain for rubber and hard woods. The contract is made without prejudice to the right of the Government to make similar grants to other parties and carries with it the right of navigation, under the existing laws, of the waterways of the Republic.

#### BANKS, BANKING, AND FINANCIAL CONDITIONS IN THE REPUBLIC.

Consul-General JAY WHITE, of Bogota, furnishes the following information concerning the monetary conditions in Colombia and the means taken to increase American trade there:

Paper money, first issued in 1881, has displaced gold and silver in Colombia, except small quantities of the latter, which are in circulation in certain districts remote from the capital. Although reliable data have not been obtained, it may be concluded that the present outstanding issue of paper money is over 700,000,000 *pesos*, equal to \$7,000,000 gold, but some authorities place the amount as high as 1,000,000,000 *pesos*, equal to \$10,000,000 gold.

The government mint, from August, 1906, to June 30, 1908, coined silver to the amount of \$1,017,580, all in 30-cent pieces, 0.835 fine. Some nickel coins, in 1, 2, and 5 *peso* pieces, have also been put into circulation during the past two years. There is some old silver coinage in circulation, but the bankers do not consider the quantity large and say that it is impossible to give even an estimate of the amount.

No gold has been coined by Colombia in recent years, and yet the territory now comprising the Republic has coined during the last century over \$100,000,000 gold and more than \$10,000,000 silver. Some foreign gold is held by Colombian banks, and a limited amount thereof is in circulation, as well as foreign silver and bills.

#### CURRENCY AND ITS FLUCTUATIONS.

Many business men consider the existing currency insufficient for the needs of the country. Owing to the lack of means of rapid communication and the

fact that the credit system is not well developed, a considerable quantity of the currency of the country is constantly being carried from one point to another by messengers on mule back, and these sums are not available for the ordinary purposes of local trade.

Exchange has steadily advanced from par—that is, 1 *peso* equal to 96.50 cents gold in 1874, to 189 *pesos* equal to \$1 gold, in October, 1902. Since January, 1907, exchange has varied from 9,850 to 12,900 paper *pesos*, equal to \$100 gold, but the greater portion of the time it has remained slightly above the present legal equivalent, 102 *pesos*=\$1 gold.

#### COMMERCE AND BANKING.

Six months is the approximate length of time granted before bills are due. Legally, extension is forbidden in the payment of drafts in Colombia. If, however, the creditor is willing, extension is granted for an indefinite time; that is, payment is requested as usual of the drawee at his earliest convenience and interest charged. Six per cent is the usual discount for cash. The banks in Colombia are accustomed to charge a premium of 50 cents gold for any draft that is bought of them which does not amount to \$5 gold.

A law exists which grants the right of stipulation of the currency in which obligations shall be paid. If not otherwise provided by the contract, gold or Colombian currency at the legal rate (102 *pesos*=\$1 gold) is imposed.

There are five banks in Bogota, viz: Banco de Colombia, Banco de Bogota, Banco de Exportadores, Banco de Agricultores, and Banco Central.

The Banco Central is the fiscal agent of the Colombian Government. Its authorized capital is \$8,000,000 gold, divided into 80,000 shares. The gold reserve is fixed at 50 per cent of its capital. It holds a franchise for 30 years for the exclusive issue of bank notes, has many special contracts with the Government for the collection of revenues, etc., and is the medium employed for the issuance of new notes.

The Banco de Colombia has a capital of \$600,000 gold, divided into 12,000 shares of \$50 each; reserve fund, \$54,000 gold.

The Banco de Bogota has a capital of \$125,000 gold, divided into 5,000 shares of \$25 gold each; reserve fund, \$54,000.

The Banco de Exportadores has a capital of \$3,000,000 paper, divided into 3,000 shares of \$1,000 each.

The Banco de Agricultores has a capital of \$2,000,000 paper, divided into 4,000 shares of \$500 each.

The following are the New York correspondents of the Bogota banks: The Chemical National Bank, the National Park Bank, the National City Bank, and the Battery Park Bank.

Loans are made on mortgages at one-third the valuation of the property for short terms.

Interest is charged on gold loans at 12 per cent per annum and on paper loans at 18 per cent to 24 per cent per annum. The business in bills of exchange is good. Time bills are discounted at the rate of 1 per cent net per month.

There are few native or foreign private banks in Colombia.

#### FACILITATING AMERICAN TRADE.

The opening in Colombia of a branch of the International Banking Corporation of New York, now doing business in a number of South American cities, or the establishment of an American institution similar to the British Rio Plata Bank in the Argentine and Brazilian Republics, would do much to foster and facilitate American trade relations in Colombia.

The establishment of a branch of the American Express Company or of any institution selling small drafts would do much to facilitate mail-order business

with the United States, as large quantities of goods are brought into Colombia by parcels post in order to avoid the Colombian invoice fees, which amount to \$18 on goods not exceeding \$200 in value.

#### TARIFF MODIFICATIONS.

According to a presidential decree of June 7, the surcharge hitherto collected on merchandise imported through the custom-house of Cúcuta will be reduced from 70 to 35 per cent at the rate of 10 per cent monthly, from July 1.

From the same date, cacao and other national products of Venezuela will be admitted duty free at the same custom-house.

## COSTA RICA

#### ARBITRATION CONVENTION.

On May 25, 1909, at San José, Costa Rica, the Congress of the Republic adopted a resolution approving the convention passed in Washington on January 13 of the same year, providing for the settle-



THE MERCANTILE BANK OF COSTA RICA, SAN JOSE.

A newly established institution with a capital of \$500,000.

ment by arbitration of differences arising from the interpretation of existing treaties or of a legal character by The Hague Tribunal. The convention further stipulates the form in which matters at issue shall

be submitted to the arbitration tribunal, and will materially strengthen the cordial relations already existing between the United States and Costa Rica.

#### REDUCTION OF GOLD RESERVE IN BANKS OF ISSUE.

A decree dated June 18, 1909, allows banks of issue throughout Costa Rica to issue notes secured by a gold reserve of 40 per cent of the total amount of outstanding notes, in place of 50 per cent, as formerly provided. This concession is to run until December 31, 1919, and stipulates that banks enjoying it must be bona fide banks of issue on the date of the promulgation of the decree. Banks established during the life of the decree may avail themselves of its advantages only by special law to that effect.

The Costa Rican minister, Sr. Don J. B. Calvo, has called the attention of the International Bureau to a historical misstatement made in the annual review number as regards Costa Rica. Through inadvertence in the compilation the following paragraph appears, which does not belong to Costa Rica: "Revolutionary movements which sprang up in Costa Rica from time to time between the years 1811 and 1821 were suppressed with great severity by the Spanish authorities."



#### AMENDED BUDGET FOR 1909-10.

By a presidential decree issued on July 1, 1909, the Cuban estimate of expenditures for the ensuing twelve months, in the sum of \$33,418,302.85, was approved. Receipts for the fiscal year 1909-10 are estimated as \$33,825,448.53, leaving an estimated surplus of \$407,145.68.

The surplus, according to the provisions of the decree, will be used in defraying the expenses of the municipal courts and to meet the obligations imposed by the reforms introduced in the personnel of the judiciary department and other obligations resulting from the laws enacted by Congress.



#### RAILWAY EXTENSION.

London interests have secured a concession from the Government of Ecuador to build a railway from Ambato, the capital of the Province of Tungurahua, through the forest land of the Republic to the river Arajuño. The line contemplated under the terms of the concession

will have a gauge of 42 inches, the same as that of the Guayaquil-Quito Railway and make eight stops in the distance from Ambato to the river Arajuno. The concession also carries the right of eminent domain, with the stipulation that the Government shall expropriate such private lands as may be needed for the location of the line. The Government further guarantees to the grantee a bonus of £4,000 sterling for every kilometer of line constructed, payable in 6 per cent bonds guaranteed by the State.

#### IMPROVED STEAMSHIP FACILITIES.

With a view to bettering existing conditions in coastal navigation and for the development of the commerce of the Republic, a decree



DOUBLE ZIGZAG TRACK FROM THE DEVIL'S NOSE NEAR ALAUSI ON THE GUAYAQUIL AND QUITO RAILWAY.

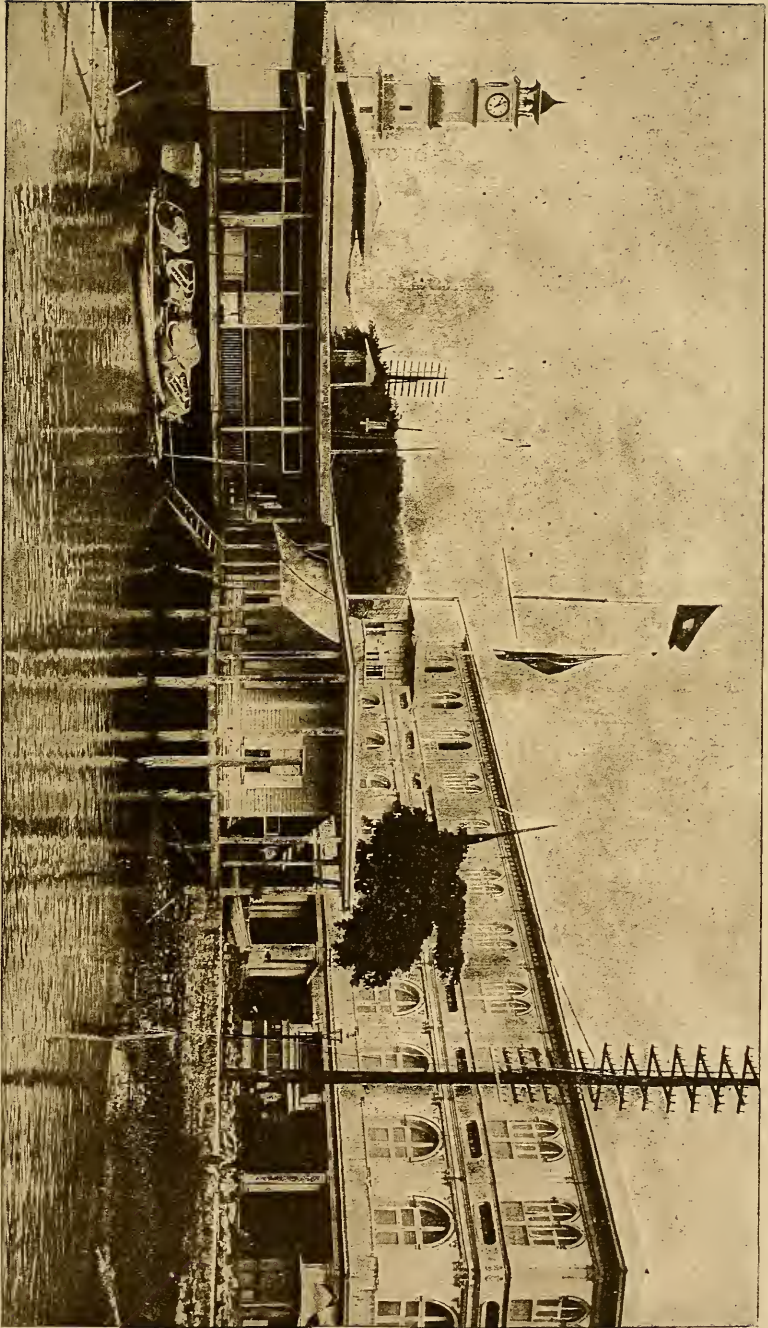
was issued by President ALFARO, under date of April 16, 1909, calling for the creation of a special commission in Guayaquil for the purpose of receiving proposals from the various navigation companies.

The decree further stipulates that proposals must be in betterment of existing conditions, both as to tariff and itinerary. With a view to securing proposals from as many steamship lines as possible, the term of sixty days provided for in the decree will be extended to enable those companies located at a distance to file their bids.

#### DRAINAGE AND WATER SUPPLY AT BAHIA DE CARAQUEZ.

Drainage of the port of Bahia de Caraquez and the adequate supply of water for municipal usages are the subjects of a contract





GOVERNMENT HOUSE AND MUNICIPAL TOWER, GUAYAQUIL, ECUADOR.

made between the Government of Ecuador and a citizen of France resident in Quito. The estimated cost of the work is \$1,020,000, and the following comprise the items of labor provided for:

The construction of a wharf of masonry; the building of warehouses and shed; the installation of mechanical apparatus for unloading; grading; installation of buoys and light-houses; establishment of railways along the wharf; dredging the sand bar; dredging the river to the depth requisite to provide anchorage; construction of waterworks to assure a greater volume of water in sewers and the bringing of drinking water to Bahia.

## DOMINICAN REPUBLIC

### DEVELOPMENT NOTES.

United States Consul Ralph J. Totten sends, from Puerto Plata, the following items relating to progress in the Dominican Republic:

It is estimated that the acreage of tobacco planted this season is nearly double that of last season. Practically all of the Dominican tobacco goes to Germany.

The cacao crop promises to be a large one this season. Although much cacao has been shipped and a large quantity is in the warehouses in the seaports, the greater part of the crop is yet to be gathered.

The government railway from Santiago to Moca, which has been under construction for some time, is now in operation. New passenger coaches for this line have just been received from the United States and are being set up in the government shops in Puerto Plata.

The government engineers have completed the survey for changing the route of the railway from Puerto Plata to Santiago. The present line climbs directly up the side of the mountain by the aid of a cogged third rail. The new route will avoid this and will make the distance with nothing heavier than a  $2\frac{1}{2}$  per cent grade, besides saving time and operating expense.

## GUATEMALA

### CONTRACT FOR INTERCONTINENTAL RAILWAY CONNECTION.

The contract made by the Government of Guatemala and WILLARD PARKER TISDEL as representative of the Central Railway for the construction and exploitation of a railway from Coatepeque or an adjacent locality and the city of Ayutla or elsewhere on the frontier, as

selected by common agreement, received the approval of the Executive on April 30, 1909.

The purpose of this line is to effect junction between the Central Railway of Guatemala and the Intercontinental or Pan-American Railway.

A government subsidy of \$5,000 for each mile is granted, also free importation for all machinery and materials requisite for construction and operation. Grants of national lands are made for the main and branch lines, and the right of exploitation is conceded for ninety-nine years, with preferential rights to the Government as a possible purchaser in case of sale.

#### PROVISIONS OF THE NEW IMMIGRATION LAW.

Under date of April 30, 1909, a new immigration law was promulgated in Guatemala. This law may be taken as an exposition of the policy of the administration with reference to the colonization of the Republic by desirable immigrants from European countries under careful supervision by the Government when such immigration is for its own account and carefully regulated by it when for account of private interests.

The first chapter of the law is devoted to a definition of the status of immigrants and their classification under three heads. Persons of the Mongolian race are not accepted as immigrants under the provisions of the law. The liability of the company or interests bringing immigrants into the Republic is carefully defined, as are also the channels through which they may secure an interpretation of the contracts under which they come into the country. In the classification of immigrants, those of the first class enjoy certain privileges not granted to others, among which are exemption from payment of duties on household effects and implements and consular fees. Provision is also made for all desirable immigrants to become citizens if they so wish.

Allotments of land to desirable colonists in grants not to exceed 45 hectares upon condition that portions of the land as stipulated in the grant be cultivated for the term of four years next succeeding the grant is provided for.

The second chapter of the law is devoted to an exposition of the regulations under which immigrants shall be accepted for transport to Guatemala from foreign countries and provides for the establishment of proper representation of the Republic abroad through its consular officers or agents or through agents specially deputed for that purpose. Provision is also made for the care and housing of immigrants awaiting embarkation abroad and upon their arrival in the country and in the case of companies or corporations introducing

immigrants into the Republic in behalf of the Government for a suitable guaranty of good faith on the part of the company.

The third and last chapter of the law provides for an active propaganda of the plans of the administration abroad through its consular officers and special agents, the dissemination of detailed information relative to the Republic and its resources by means of maps and other data, a careful supervision of the work of the special agents, the countersigning by the Department through its authorized representative of all documents and certificates concerning immigrants or contractors and the careful scrutiny of all contracts under which their services are engaged, and also for the inspection of the ships transporting them to the Republic.

The new law further provides for the repeal of the decree law No. 525, dated January 25, 1896, and the statute law No. 321, of April 18, of the same year.

#### BUDGET FOR 1909-10.

The budget of expenditures for the Government of Guatemala for the fiscal period from July 1, 1909, to June 30, 1910, as approved by the National Assembly carries an appropriation of 36,478,768.32 *pesos* (\$14,500,000), distributed as follows:

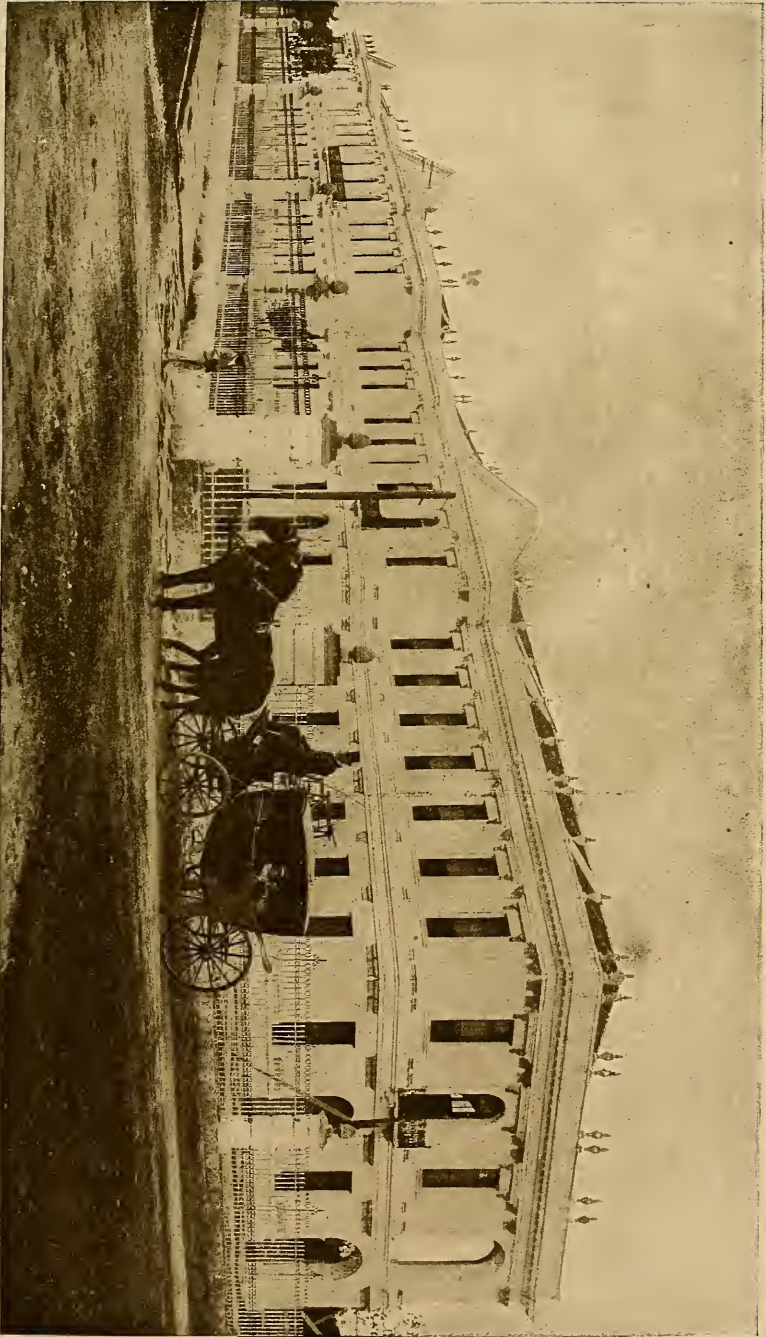
	Pesos.
Government and Justice-----	4, 547, 604. 00
Foreign relations-----	993, 039. 20
Treasury-----	1, 678, 016. 00
Public credit-----	22, 000, 000. 00
Promotion (Fomento)-----	2, 188, 542. 96
War-----	2, 408, 415. 16
Public instruction-----	2, 195, 121. 00
Arrears-----	468, 030. 00

#### PARTICIPATION IN BRUSSELS EXPOSITION.

The President of the Republic under date of June 1, 1909, accepted the invitation of the Belgian Government to participate in the international exposition to be held at Brussels in 1910. The executive further confirms the policy of the administration in participating in such expositions at home and abroad as an approved method of accrediting the products of the Republic in the markets of the world. Provision is made in the decree for a representative exhibit of the country's products, and the dissemination of information and data concerning them.

#### SANITARY BAKERIES.

The progressive policy of the sanitary authorities of the Republic is bearing fruit in the promulgation of a decree regulating bakeries



ESTRADA CABRERA ASYLUM, GUATEMALA CITY, GUATEMALA.  
Recently completed and designed as a home for the indigent.

throughout the country. In addition to providing for the making of bread under sanitary conditions, the use of modern machinery and apparatus is recommended.

#### APPROVAL OF THE HAGUE CONVENTIONS.

The Government of Guatemala on April 29, 1909, formally approved the conventions subscribed to by the delegates of nations assembled at The Hague Conferences of 1907.



#### IRRIGATION WORKS.

The "*Moniteur Officiel*" of Haiti publishes in a recent issue a law of March 15, 1909, by which an appropriation of \$200,000 American gold is granted the Agricultural Department for various irrigation works.

The works are to include the building of a dam at the place called "*Bassin Général*," and the reestablishment of the works and canals recognized as necessary for the diversion of the Gray River (*Rivière Grise*) and for the irrigation of the Cul de Sac plain. This plain is, from an agricultural point of view, one of the richest regions of the Department of the West, but often suffers from droughts.

The stipulated sum of \$200,000 will be guaranteed by an export tax on coffee and will be payable in five installments, upon the opening of the construction sheds, during the work, and after its complete execution.

In the thirty days following the signing of the contract the concessionnaire must deposit a guaranty of \$5,000 American gold in the National Bank of Haiti.

A delay of two years is granted for the execution of the work.

The law provides for the free importation of the material, machinery, etc., necessary for the enterprise, and stipulates that the personnel, including the engineers and laborers employed in any capacity whatsoever must be Haitian subjects.

#### NEW WHARF AT PORT AU PRINCE.

The "*Moniteur Officiel*" of May 19, 1909, publishes the acts of incorporation of a stock company to be known under the name of "*La Compagnie Haïtienne du Wharf de Port au Prince*" (Haitian Port au Prince Wharf Company).

This company is organized for the purpose of building, maintaining, and exploiting a wharf at Port au Prince under the terms of article 11 of the concession granted by the Haitian Government September 4, 1906, sanctioned and approved by a special law voted by the legislative body September 16, 1906, and promulgated by the President of the Republic October 1, of the same year.

The company will be capitalized at \$600,000, divided into 6,000 shares of \$100 each. The private property of the stockholders can in no wise be assessed for the debts of the company.



Photo by Hare, Collier's Weekly.

FLOUR FROM THE UNITED STATES BEING UNLOADED FROM SHIPS AT MIRAGOANE,  
HAITI.

While the headquarters of the company will be at Port au Prince, an office will be maintained at Wilmington, Delaware, where it will be represented by the Corporation Trust Company of America.

The concession runs until December 31, 1956.

**GUANO CONCESSION.**

The "*Moniteur Officiel*," of Haiti, publishes in its issue of May 19 the text of a contract signed April 14 of the present year, by which the Haitian Government grants Vincent P. Tommins, of New York, a concession for the exclusive right to exploit the guano deposits which are found or may be found in the districts of Fort Liberte, Grand Riviere du Nord, Valliere, and especially at Cerca la Source.

This concession is for nine years, dating from the signing of the contract, and may be renewed for a new period of nine years.

Before the beginning of the work the concessionnaire must deposit with the National Bank or National Treasury the sum of \$800 as a guaranty of the execution of the contract, and in default of the undertaking of the enterprise within the stipulated six months the money will revert to the State and the contract be declared null and void.

The machinery and other material necessary for exploitation will be admitted free of duty, although a list of the articles and machinery must previously be submitted to the proper officials.

The guano will be exported through the Cap customs and a duty of \$1.50 American gold will be levied on each ton for the benefit of the State. All the employees, with the exception of the technical personnel, must be Haitian subjects.



#### TRANSPORT, STORAGE, AND DISPATCH OF MERCHANDISE.

A decree numbered 56 and dated March 11, 1909, provides for the handling and delivery of merchandise at designated points in Honduras by the custom-house authorities for shipment to its destination. The expense incident thereto is for account of the Government, the discharge of the steamers being for account of the company. Exception is made in the case of bananas, cocoanuts, live stock, and lumber.

Coastwise trade in the Republic, according to a decree dated March 11, 1909, must be conducted by native or naturalized citizens and in ships of domestic register. The decree also regulates the issuance of clearances by custom-houses throughout the Republic and becomes effective from the date of its promulgation.

Another decree under date of April 1, 1909, provides for the nationalizing and gauging of shipping in the Republic, defines what ships may be held as of national register and the manner in which they may be gauged and nationalized.

#### MODIFICATION OF TARIFF DUTIES.

From August 1, 1909, in accordance with an executive decree, the following duties in gold values will be levied on national products exported from the Republic of Honduras:

Mahogany and cedar, \$5 per 1,000 feet; San Juan and Santa Maria, \$3 per 1,000 feet; cabinet and dyewoods, \$5 per ton; sarsaparilla, \$3 per quintal; rubber, \$3 per quintal; hides, \$1 per quintal; and chicle, \$2 per quintal.

In May, a duty of 3 *pesos* per 1,000 was levied on cocoanuts.





A PUBLIC BUILDING AT SAN PEDRO SULA, HONDURAS.

This city of 10,000 inhabitants is situated in the San Pedro Valley, the garden spot of Honduras. It is the principal commercial city of the Republic, and contains a large American colony, the offices of most of the American mining companies being located there.

By decree No. 45 the following articles are declared exempt from import duties, either state or municipal. Figures in parentheses represent old duties per one-half kilogram (1.1 pounds) :

Coal (free), gasoline ( 5 cents), carbide of calcium, wire for fences (2 cents), staples (2 cents), machinery and tools for roads ( 5 cents), agriculture (1 cent), mining (1 cent), or industries ( 5 cents), live animals (\$5 each), seeds (1 cent), forage (1 cent), wheels for carts (1 cent), harnesses (10 cents), sacks for coffee (1 cent), iron tires for wheels (1 cent), motors of all kinds (1 to 10 cents), windmills (1 cent), printing presses (1 cent), lightning rods (1 cent), live plants (1 cent), machines and material of iron for railroads and tramways, instruments for arts and industries (10 cents), printed books (2 cents). Lumber (\$5 per 1,000 feet) for building purposes will enjoy same privilege only on the Atlantic coast, and then only until sawmills are established that will give sufficient lumber for the needs of the coast.

#### DUTIABLE LIST.

The following articles imported through the customs of the Republic will be charged the following duties per one-half kilogram (1.1 pounds) gross weight :

Natural products: Rice (2 cents) and peas, 6 cents; corn, beans (1 cent), chick peas (2 cents), onions (2 cents), garlic, potatoes (2 cents), vegetables and dried fruits ( 5 cents), 4 cents; cocoa, coffee ( 5 cents), peanuts ( 5 cents) and raw cotton ( 5 cents), 10 cents; leaf tobacco (\$1), \$1. These duties, as well as those that follow, are in silver, worth at present rate 0.375 cent.

Industrial products: Cheese (10 cents), 25 cents; butter (10 cents), 25 cents; condensed milk (10 cents), 25 cents; lard (10 cents), 20 cents; salted and smoked meats ( 5 cents), 10 cents; meats in tin (15 cents), 25 cents; starch (10 cents), 15 cents; fruits preserved in their juice (10 cents), 20 cents; preserves, dry or in sirup (10 cents), 20 cents; soap, ordinary, without perfume (10 cents), 15 cents; tallow candles ( 3 cents), 20 cents; cigarettes (\$1), \$2; cigars (\$1), \$2; tobacco, cut or in powder (\$1), \$1.50; chewing tobacco (\$1), \$1.50; chocolate (10 cents), 25 cents; cordage (2 cents), 10 cents; furniture of wood (10 cents), 20 cents; straw hats ( 50 cents), \$1; Panama hats (\$2), \$3; saddles ( 50 cents), \$1; shoes (60 cents), \$1; windows ( 5 cents) and doors ( 5 cents) and blinds (10 cents) of wood, 4 cents; wood for veneering, 6 cents; clothing of cotton (25 cents), 50 cents; clothing of hemp or linen ( 50 to 60 cents), \$1; clothing of wool for external use (\$2), \$3.

These duties are charged on gross weights and per one-half kilogram. The executive power can reduce or abolish payment of foregoing taxes in case of famine, epidemics, wars, etc.

From April 2, 1909, the following tariff provisions became effective:

ARTICLE 1. The importation of ordinary intoxicating liquors is prohibited.

ART. 2. The following liquors are considered as ordinary, under the provisions of this law: Whisky, cognac, rum, aniseed, and gin, put up in casks, barrels, kegs, or demijohns.

ART. 3. The above-mentioned liquors are also considered as ordinary liquors when put up in bottles containing less than 21° Carthier of alcoholic strength, or when, in the countries of their origin, their price be less than \$1 (gold) a liter or \$0.70 (gold) a bottle, or if their selling price does not exceed 60 per cent of that of brandy and of liquors on which there is a monopoly.

ART. 4. The stock of the liquors referred to in the two preceding articles must be withdrawn from sale on July 31, 1909, to which end the revenue officials shall take note of such stock now on hand.



#### FOREIGN COMMERCE, NINE MONTHS OF 1908-9.

The valuation of imports into the Mexican Republic during the nine months of the fiscal year (July, 1908-March, 1909), is reported by the Statistical Division of the Treasury Department as ₱114,791,627.13 (\$57,395,813), a decline as compared with the corresponding period of the preceding year of ₱63,433,849.21 (\$31,716,924).

For the same period, exports were worth ₱171,909,875.08 (\$85,954,937), a decrease of ₱13,502,103.41 (\$6,751,051).

In consideration of the export list, the two most important features are the decline of ₱15,615,193.82 (\$7,800,000) in mineral shipments and the gain of ₱2,993,806.18 (\$1,490,000) in exports of animal products. Also, while vegetable products as a whole decreased by ₱1,436,338.07 (\$700,000) such items as coffee and guayule showed gains of ₱1,778,058 (\$880,000) and ₱2,361,361 (\$1,180,000), respectively.

#### CANADIAN COLONIZATION CONCESSION.

A concession granted by the Mexican Government to a colonization enterprise under Canadian auspices carries with it the privilege of denouncement and purchase of 1,500,000 acres of land in the State of Guerrero with a subvention of nearly \$3,000,000 for irrigation purposes together with exemption from taxes and import duties to colonists.

The Mexican Government also undertakes to establish an experimental farm within the boundaries of the colonized area for the study of the most efficient methods of growing native and imported

farm products. The lands which have been denounced are rich producers of cocoanuts, cotton, tobacco, corn, and tropical fruits.

Provisions have been made for adequate steamship service between Canada and the port of Zihuatanejo and adjacent harbors, and it is anticipated that within the next seven years, the time limit set for the establishment of the immigrants, 10,000 Canadians will be settled in Guerrero. While outside colonization will be largely confined to Canadians, it is planned to provide for the settlement of Mexican citizens upon the company's grounds.

#### DEVELOPMENT OF SERICULTURE.

The Mexican Government is taking active measures to foment sericulture throughout the Republic, as is indicated by instructions recently issued to the Department of Fomento to provide adequate instruction to all persons desirous of engaging in this industry.

For cocoons in various classes premiums are to be awarded and mulberry trees will be distributed from the government agricultural school grounds in the Federal District. In the garden between Churubusco and Coyoacan, 6,000,000 trees are to be planted, and when ready for propagation will be distributed throughout all the States of the Republic.

It is also purposed to hold an exhibit of the silk weaving industry under the auspices of the Department of Fomento, when Señor GONZALEZ, the chief of the sericulture department, will furnish practical instruction to all persons interested in the care of silkworms and the weaving of silk from the cocoons.

#### COAL DEPOSITS OF GUADALAJARA.

United States Consul SAMUEL E. MAGILL, reporting concerning the Mexican coal deposits near Guadalajara, their quality, estimated output, and possible markets, states that the city of Guadalajara will consume much of the output, railways will consume some, although oil is their chief fuel at present, and some may be marketed through the port of Manzanillo, although coal from Japan, Australia, and British Columbia will compete therewith.

The deposit is 18 miles east of Zapotiltic, a station 113 miles from Guadalajara, on the Manzanillo branch of the Mexican Central Railway. Surveys made provide for 18 miles of railway to tap the Mexican Central at Zapotiltic. The maximum grade will be 4 per cent for  $2\frac{1}{2}$  miles of the distance, the remainder not exceeding  $2\frac{1}{2}$  per cent. The estimated cost of this branch line is \$150,000, exclusive of rails. The curvature will be such as to necessitate Shay locomotives. The known area already developed with drills is 2,000 acres, and the estimated area, according to outcrop and direction of vein, 6,000 acres more, making a total of 8,000 acres.



BIRD'S-EYE VIEW OF ZACATECAS, MEXICO.  
It is the capital of the State of the same name and is situated in a rich mining district, the city itself being built over a vein of silver.

The coal is a very superior form of lignite. The highest percentage of ash ever shown by analysis has been 8 per cent, and it has gone as low as  $3\frac{1}{2}$  per cent. In all cases the carbons are over 90 per cent. It is not a coking coal, as the field is too young, and it should not be represented as such; it is probable that there is no coking coal in this part of the Republic. It is, however, an excellent steam coal, and also makes good gas, according to some American experts who examined it for a company which holds the concession for a gas plant in Guadalajara. The coal has been used as fuel in the development of the work of the mine.

The work of development is just beginning. Work had been carried on for about five months up to September, 1908, when the owners had some misunderstandings and ceased to operate. In June, 1908, some explorations were made—in an old drift which Mexicans had worked on a 15 per cent incline—by cutting through the limestone reef, at which the Mexicans stopped, and continuing until the second vein was cut at 45 feet. A perpendicular shaft was then sunk until it cut the upper vein. A camp with wooden buildings was then established.

#### EXPORTS OF CHICLE.

The amount of chicle exported from Mexico during the fiscal year 1907-8 was over 5,000,000 pounds, of which about 4,500,000 pounds found a market in the United States. The year's shipments were valued at \$1,125,700, and that these figures are being maintained is indicated by the valuation of this product sent abroad during the first nine months of the fiscal year 1908-9, when exports of chicle are valued at \$1,000,000.

The annual consumption of this gum in the United States is between 6,000,000 and 7,000,000 pounds, and though large quantities are credited to Canada and British Honduras on the import lists, the country of origin is mainly Mexico. The Canadian trade assumed such large proportions by reason of the former practice of shipping the Mexican products by way of Canada, so that the gum might undergo a drying-out process on the long voyage, with the consequent reduction of weight liable to duty.

It is estimated that 1,000,000 pounds of crude chicle, losing 30 per cent in shrinkage and cleaning and mixed with four times its weight in sugar and other ingredients, would figure in 3,500,000 pounds of chewing gum.

#### TAX ON TEXTILE INDUSTRIES.

For the six months, July-December, 1909, the amount of the tax to be collected on the 121 cotton mills operating in the Mexican Republic is fixed at ₧1,081,800 (\$540,400).

The importance of the industry in the country is demonstrated by the increased valuation assigned to imports of textile fibers during the first nine months of the fiscal year 1908-9, as compared with the same period of 1907-8, the totals being ₧2,059,626 (\$1,029,800) and ₧1,646,602 (\$823,300), respectively.

#### TIME EXTENSION FOR MANZANILLO PORT WORKS.

An executive decree of June 8, 1909, extended until November 30, 1909, the time limit for the completion of the improvement works in Manzanillo Harbor. These works are being done under contract between the Mexican Government and Engineer EDGAR K. SMOOT, and are designed to render the port of Manzanillo one of the safest and most commodious on the Pacific coast.

#### BOUNTIES FOR FRUIT EXPORTS.

A state paper recently issued by the Finance Minister of Mexico, Señor LIMANTOUR, called attention to the possibilities of Mexico as a fruit exporter and urged the adequate development of this branch of trade.

In furtherance of this policy, the State of Tabasco has passed a law establishing bounties for the shipment abroad of native fruits, the premiums being based upon local current prices.

Tabasco is a large producer of bananas, cocoanuts, pineapples, and other fruits.

#### DEVELOPMENT OF OIL FIELDS.

Under date of May 11, 1909, the President of Mexico by an executive decree confirmed the contract entered into on November 21, 1908, between the Government and the representative of the Mexican Oil Fields Company for the exploitation of oil fields in the States of Veracruz, Puebla, San Luis Potosi, and Tamaulipas.

The decree further provides for the investment of \$100,000 in the development of oil properties in the above-mentioned States within a term of seven years from the date of the contract and the furnishing of a bond of \$5,000 as security. The royalties are assessed at 10 per cent of the net earnings, 7 per cent going to the National Government and 3 per cent to the State.

The "Mexican Herald" of June 17 reports the formation of a new company for the development of the petroleum industry of Mexico. The Mexican Oil Company (*Compañía Mexicana de Petroleo*) "*El Aguila*," capitalized at \$25,500,000, in acquiring the federal concessions held by the Pearson Company, will confine its operation to supplying the Mexican market with its product whereas the old company of S. Pearson & Son (Limited) Oil Fields will produce, refine, and export petroleum.

The concessions acquired by the company cover all the holdings of the Pearson Oil Fields department north and west of an imaginary line drawn at about 19° west from Washington, and extending from Veracruz in an almost direct line south to Puerto Angel on the Pacific in the State of Oaxaca. It includes the Dos Bocas field and such rights as the Pearson Company acquired from the Oil Fields Company.

The Ebano field held by United States interests is unaffected by the new firm.

#### EXTRADITION TREATY WITH HOLLAND.

By a decree dated May 30, 1909, the Government of Mexico confirmed the treaty entered into on December 16, 1907, and amended on November 4, 1908, with the Kingdom of Holland, providing for the mutual extradition of fugitive criminals. The treaty specifies the crimes for which extradition may be asked, stipulating simply that they must be extraditable offenses under the laws of each country.

#### TRANSFER OF FISHING CONCESSION.

The concessions covering fisheries of mother-of-pearl and pearl oysters, as well as all descriptions of sea fish, on certain parts of the Pacific coast of Mexico, formerly held by Señor ENRIQUE OROZCO, have been taken over by a company which undertakes to invest not less than \$25,000 in the industry.

It is purposed within two years to establish not less than three factories for curing the products of the fisheries, with shops for the sale of products in the cities of Mexico, Puebla, and Guadaloupe, and, furthermore, the company engages to sell its fish when in tins or other packages at not more than one-half the price of foreign goods.

Free importation is permitted for the machinery required in the fish canning and packing establishments.

#### MISCELLANEOUS NOTES.

A franchise for the construction of a railway to run from Ciudad Juarez through the towns of Galeana and Torrazas to Colonia Chichuapa, in the State of Chihuahua, was granted to LUIS RIBA under date of April 21, 1909. The franchise calls for the completion of 10 kilometers of the road within eighteen months and at least 20 kilometers in each succeeding year, all of the construction to be completed within a term of ten years.

A franchise has been granted to JOSÉ CASTELLOT for the construction of a railroad in the States of Oaxaca, Guerrero, Michoacan, and Colima. It provides for the completion of 20 kilometers of line within two years from the date of the franchise and the completion of the entire line within twelve years.



# NICARAGUA

## CONCESSION FOR A BANK AT MANAGUA.

The concession granted by the Government of Nicaragua to a citizen of the United States for the establishment of banking institutions in Managua and other cities of the Republic is the subject of a report made to his home Government by the United States Consul at Managua, Mr. JOSÉ DE OLIVARES.

The bank is to be conducted under the name of the "American Bank of Nicaragua," with a capital stock of \$2,500,000, which may be increased to \$10,000,000.

The terms of the concession are to be in force for fifty years from January 1, 1910, or from such prior date as the bank may be opened to the public.

All operations corresponding to banks of issue are permitted, viz. to discount commercial documents, advance money on good securities, receive deposits, issue notes payable to bearer on demand, buy and sell bills of exchange, telegraphic drafts, promissory notes, and all other commercial documents. The bank may also issue bank notes to bearer payable on demand in gold coin, silver, or United States notes representative of gold. The notes issued by the bank will have a fixed value of 20 cents gold for each dollar issued by the bank, same being at the rate of exchange of 500 per cent.

The Government contracts to issue bonds to the amount of \$2,600,000, redeemable in 25 per cent of the general duties on all importations passing through the custom-houses of the Republic. These bonds will bear interest at the rate of 6 per cent per annum from the date of their issue, and the bank agrees to purchase the entire amount at 75 per cent of their nominal value.

The Government binds itself to transact all its commercial and banking operations through the institution, for which the latter will receive a commission not to exceed 5 per cent. It is further agreed that the Government will discharge all its foreign obligations through the bank.

## OPENING OF WHARF AT THE BLUFF, NICARAGUA.

The new wharf at the Bluff, Nicaragua, although not entirely completed, has been in part opened to the public. Under the terms of the decree authorizing the erection of this wharf its construction is provided for by an issue of \$150,000 of bonds at 12 per cent, running in six series and in denominations of \$50 and \$10 each. The use of the wharf in connection with the commerce of the port is compulsory

and the special bonds issued to defray the construction expense may be tendered in payment of wharfage dues. The decree further provides that such bonds as have not been retired at the expiration of three years shall be discharged at their face value in American gold with accrued interest and a bonus of 10 per cent.



#### LANDS THROWN OPEN TO IMMIGRATION.<sup>a</sup>

By law of January 2, 1909, passed by the National Assembly of Panama, immense tracts of the richest lands of the Republic are thrown open to acquisition by foreigners, which lands have heretofore been held as commons of the various municipalities of the Isthmus—absolute title to which could never be acquired.

In the year 1705 and 1735 certain towns of the "Colony of Tierra Firme," now the Republic of Panama, bought from the Crown of Spain all the lands lying within a certain area of the town that were not at the time held by private owners. One of the stipulations of the contract of sale was that these lands should forever be held by the different towns as commons, never to be adjudicated to individuals. Usufructuary title could be acquired by settlement thereon and cultivation, but ultimately the lands reverted to the municipality.

Such has been the law operating on these lands from 1705 up to the first of the present year. Thousands and thousands of acres of magnificent grazing and forest lands have been held under an edict of the Spanish Cortes of nearly two hundred years ago; when by the passage of this new land law by the Panamanian Assembly they are released and thrown open to the world. These commons, as will be seen by a perusal of the present law, comprise nearly the whole of the Pacific slope of Panama, from the Costa Rican border to a short distance above the Canal Zone line. They are composed of rolling savannas and dense virgin forests, dotted here and there with small towns and settlements, all connected with the Canal Zone by cart roads and trails.

The Provinces of Chiriqui and Veraguas are partly comprised within these commons, each having thousands and thousands of acres of magnificent open range, dotted here and there with herds of cattle and horses. All these lands are thrown open to settlers, to be acquired

<sup>a</sup> Charles M. Brown.

in absolute title, with the exception of the open range, which will still be held in common and on which settlers will have the right to graze their cattle. Small sections of the range can be acquired in usufructuary title for the purpose of building corrals, branding pens, etc., but on being abandoned revert to the municipalities.

Throughout this entire stretch of country, over 300 miles in length, one can not travel, paralleling the coast, for a distance of over 3 miles without finding a mountain stream or river which never runs dry, due to the excessive rainfall in the upper "cordilleras" during the height of the dry season in the plains below. Inclosures for fattening cattle are found along the banks of these rivers, into which the cattle are driven from the range when preparing them for market.

In the Province of Chiriqui one can travel around the base of the volcano of Chiriqui for days over undulating savannas traversed every few miles by a rushing mountain stream, broken here and there by little patches of dense undergrowth hiding some spring, shady shelter for cattle during the heat of the day, while, on turning northward, ascending the slopes of the volcano, rising from one plateau to the next higher up, the beautiful natural grass plains are found to be broken only by the rivers, which in many places have cut canyons hundreds of feet deep, in many places dotted thickly with volcanic rock. On these upper slopes no cart roads are necessary. The crumbling clay and tufa soil quickly absorb the heavy rains, and heavy ox carts pass continuously over a beaten trail where no attempt has ever been made at the construction of a road.

Throughout these commons, which are comprised within the five Provinces of Chiriqui, Veraguas, Los Santos, Coel , and Panama, the Panaman Government is extending its system of telephones and telegraphs, as well as pushing the construction of steel bridges spanning the principal rivers. The chief engineer of the Republic, Mr. J. G. HOLCOMBE, M. A. S. C. E., formerly division engineer of the Isthmian Canal Commission, has recently made a reconnoissance of the public works already completed in the interior of the Republic, and has recommended the construction of modern highways connecting the numerous towns scattered over the plains and higher up in the mountains, which recommendations have been accepted by the Government and are being acted upon at the present time.

Such is the condition of these common lands that have been thrown open, even under the adverse conditions placed upon their development by this edict so long ago given by the Cortes of Spain. What their rapid development will be under the new condition can only be measured by that of similar lands in the western part of the United States.

The price set upon this land by the Panaman Government is extremely reasonable; \$2.50 per hectare, which is practically 2½ acres;

payable one-half at the time of occupation, and the remainder without interest at the end of four years, at which time absolute title can be obtained on making such payment, provided four-fifths of the land taken up is fenced and in use. There is no limit placed upon the quantity of land permitted to any one person or corporation; therefore it would not be exaggeration to state that in the near future American capital will find a fertile field for investment in these parts of the Republic of Panamá.



#### REGULATIONS GOVERNING IMPORTATION OF PATENT MEDICINES.

A law governing the sale of medicines, previously enacted, was promulgated in Paraguay on December 9, 1908. The law is to be applied to imported medicines one year from the date of its promulgation. The following paragraphs refer to proprietary medicines:

ART. 40. Special medicines, of domestic or foreign manufacture, or those called patent medicines, whether for external or internal use, require for their sale a previous authorization from the National Department of Health, without which they will be considered secret remedies prohibited from sale.

ART. 41. The publication of advertisements of patent medicines whose sale has not been authorized by said department, or attributing to the same the power of infallibly curing diseases in a given time or more rapidly than do other remedies, or according to them unnatural virtues, are also prohibited.

ART. 42. The National Department of Health will authorize the sale of medicines referred to in article 40, upon compliance with the required formalities, without which authorization the sale of such medicines is prohibited.

The authorization conferred by the department for the sale of patent medicines can be referred to in advertisements and notices to the public in the following form only: "*Venta autorizada por el Departamento Nacional de Higiene. Certificado num. —. Expendio libre ó expendio bajo receta.*" (Sale authorized by the National Department of Health. Certificate No. —. Consumption unrestricted or sold only on prescription.)

ART. 43. The formulæ of patent medicines shall be plainly printed on the label of the receptacle, indicating the quantity of active substances which they contain.

ART. 44. The manufacturers or handlers of patent medicines whose formulæ are clearly printed on the label, and which are now sold without the authorization of the National Department of Health, are allowed six months in which to comply with the provision of article 40.

ART. 46. After one year from the publication of this decree the national custom-houses will not permit the introduction of patent medicines destined for sale which have not been previously authorized by the National Department of Health.

# PERU

## RAILWAY EXTENSION.

In accordance with the existing programme for extending the railway mileage in Peru the Government has contracted with the Peruvian Corporation for the extension to Ayacucho of the line already under construction between Oroya and Huancayo. Mr. CARLOS WEBBER has been commissioned to undertake the preliminary survey work on the new line, which will have a total length of 208 kilometers and cost, exclusive of rolling stock, approximately 910,000 Peruvian pounds, an average cost of 3,500 pounds per kilometer.

The line when completed will be of standard gauge, and on the section already completed the maximum grade is 1 per cent. The proposed new line, apart from placing in rapid and easy communication the capital and the districts of Junín, Huancavelica, and Ayacucho, will form an important link in the proposed Intercontinental Railway.

## THE CHIMBOTE RAILROAD AND PERUVIAN COAL FIELDS.

The resumption of construction work on the Chimbote railway extension between Tablones and Recuay will open up extensive coal fields situated about 64 miles from the coast of Peru.

From the fine natural harbor of Chimbote a railroad runs inland to Tablones, a distance of about 30 miles, and from the latter point to Recuay, about 130 miles, the company exploiting the coal beds has acquired the concession for completing the line.

Embankment work has been extended 28 miles beyond Tablones, and as soon as through communication is established it will be possible to deliver at least 150,000 tons of coal per annum at the seaboard. The coal is stated to outcrop for 20 miles along the route of the railway.

From the coal fields to Recuay, along the Huaylas Valley, the road will pass through the most densely populated district of Peru, with well-established sugar, cotton and other agricultural industries. A large number of copper and other mines are also situated in this valley which suffer from the present high cost of transport to the coast both for ores and machinery.

The quality of coal mined is reported as good, and an order for 100 tons was given for the use of the American fleet.

# SALVADOR

## THE PRACTICE OF PHARMACY IN THE REPUBLIC.

The Salvadoran Congress has under consideration a law regulating the practice of pharmacy and creating a Faculty of Pharmacy and Natural Sciences to which all pharmacists, whether native or foreign, operating in the country must belong. In default of membership in this faculty a special license is to be requisite for pharmaceutical practice.

## BUDGET FOR THE YEAR 1909-10.

The National Assembly of Salvador in passing the budget for the economic year 1909-10 estimates receipts at \$4,127,600, and disbursements at \$4,148,800, leaving a deficit of \$21,200. Of the estimated receipts, customs duties are expected to furnish \$2,764,400, and inland revenue \$1,363,200.

## PORT MOVEMENT, FIRST QUARTER OF 1909.

At the Salvadoran ports of Acajutla, La Libertad, La Union, and El Triunfo there arrived during the first three months of 1909 steamers to the number of 166 and sailing vessels 29. Of this total 84 steamers were from the United States, 60 from Germany, and 22 from Honduras. Of the sailing vessels, 21 were under native register and 8 from Honduras.

Shipments are reported of native products in 206,345 packages, and imported merchandise was received in 104,834 packages.

## REGULATION OF INDUSTRIES.

From June 1, 1909, the regulations decreed by the Government of Salvador covering the operation of cigar and cigarette factories and breweries and bottling establishments in the Republic became effective.

Proprietors are required to furnish to the proper authorities a sworn statement as to the capacities of their plants, the number of operatives, etc.

The analysis previously ordered for wines and liquors is also extended to beers, both manufactured in the country and imported.

# URUGUAY

## DISTRIBUTION OF EXPORTS.

The leading countries of destination for Uruguayan exports, according to the latest detailed statistics (1907), figure as follows in the total shipments of merchandise valued at over \$34,000,000:

Germany .....	\$4,647,866
Argentine Republic .....	7,295,195
Belgium .....	5,551,733
Brazil .....	2,759,863
Cuba .....	1,092,966
Spain .....	533,674
United States.....	1,603,320
France .....	6,431,631
Great Britain.....	2,993,154
Italy .....	1,155,704
Other countries.....	898,839

Animal products worth \$31,688,836, or over 90 per cent of the total, form the bulk of the exports in the following classifications and values: Live animals, \$1,090,602; horns, \$140,765; meat and extracts, \$5,690,446; hides, \$8,146,720; hair, \$324,159; grease and tallow, \$1,619,818; bones and ash, \$99,562; wool, \$14,491,783; other products, \$84,981.

In agricultural products, grains, cereals, flour, and pastes figure for \$1,569,107; fruits and vegetables, \$82,097; fodder and oil-seed cake, \$9,065; and other items, including linseed, \$691,390.

### NATURALIZATION TREATY WITH THE UNITED STATES.

The naturalization treaty with the United States ratified by the Uruguayan Congress on May 14, 1909, covers the following general conditions:

Uruguayan citizens who are or may become naturalized in the United States, by their own request or consent, shall be regarded by Uruguay as citizens of the United States. Reciprocally, citizens of the United States who are or may become naturalized in Uruguay, by their own request or consent, shall be regarded by the United States as Uruguayan citizens.

If an American naturalized in Uruguay renews his residence in the United States without intention of returning to Uruguay, he may be regarded as having resigned his naturalization in Uruguay. The same conditions apply in regard to a Uruguayan naturalized in the United States.

The intention of not returning may be considered as existent when the person naturalized in one country resides more than two years in the other, but this presumption may be destroyed by evidence to the contrary.

The citizen recognized by one party who returns to the territory of the other remains subject to trial and legal penalty for any action penalized by the laws of his primitive country committed before his emigration, there being reserved in his favor the modifications established by the laws of his original country.

The declaration of the intention to become naturalized shall not have for either party the effect of legally acquired citizenship.



OPENING OF THE SPANISH HOSPITAL AT MONTEVIDEO, URUGUAY, BY PRESIDENT WILLIMAN, MAY, 1909.

The President is the central figure in group, with his hat in his left hand.

This treaty shall last for ten years and until denounced with twelve months' notice by either party after the expiration of the ninth year.

#### LABOR ACCIDENTS LAW.

An important bill recently introduced for the consideration of the Uruguayan Government covers measures fixing the legal responsibilities of employers for accidents to laborers.

Among the industries specified in which the workmen are to look for indemnity for disabilities incurred in the discharge of their duties are:

Mines and quarries; factories, metal works, and naval or terrestrial building works; establishments where explosives, inflammable, un-



healthy, or poisonous materials are employed; the construction, repair, and preservation of buildings, including masonry, carpentering, etc.; construction and repair of docks, etc.; woodcutting and charcoal burning; gas and electrical enterprises; transport of cargo and passengers; dispatch, packing, and handling of merchandise; distilleries, breweries, etc.; fire companies; maritime salvage and diving; freezing establishments, ice factories, and factories for extract and preparations of meat, including saladeros; agricultural and forest work where motor power is employed, and other industries similar to the above where any motive power other than human energy is used.

Special measures are to be enacted for the adequate presentation of the workmen's cases before proper authorities, and the claims that may be legitimately made for indemnity for injuries.

#### RECLAMATION WORK AT MONTEVIDEO.

A bill under consideration by the Uruguayan Congress provides for the reclamation of an extended area on the water front of Montevideo, in connection with the construction of the southern embankment, or "*Rambla sud.*"

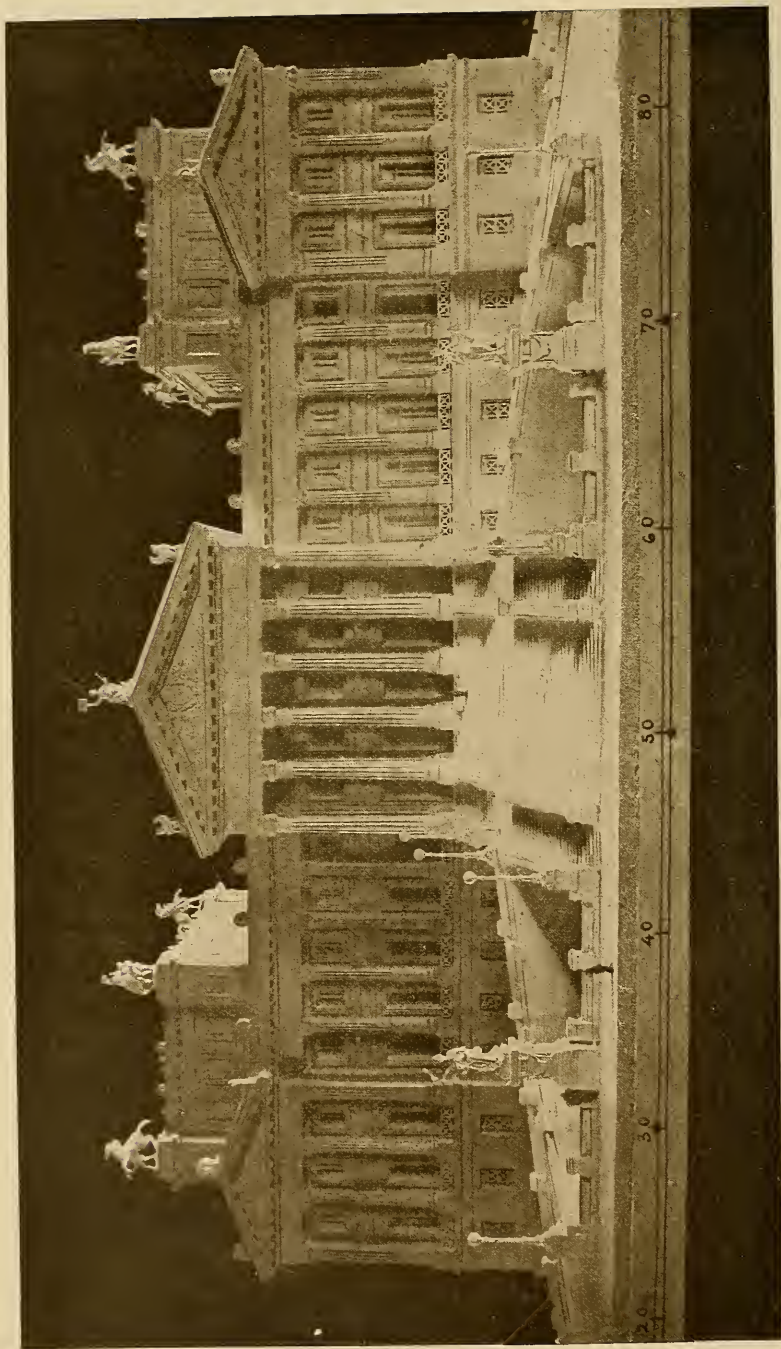
In accordance with the general outline of the plan presented to the Ministry of Public Works, about 358.3 acres will be reclaimed from the sea, part of which will be utilized for the embankment proper and part for the installation of sanitary works, streets, and gardens.

The State guarantees the syndicate having the work in hand the sum of \$6,974,000, and grants freedom from customs duties and license tax all machinery and materials for the work. The lands reclaimed from the sea shall be free from property and municipal imposts while unsold and the sales shall be exempt from all the taxes imposed by law upon the vendor.

The lands reclaimed, excluding those required for streets and avenues and public usages shall be sold under state supervision at a price not less than \$9 per square meter, from which sales a sinking fund for the guaranteed bonds shall be constituted.

#### REGULATIONS FOR DOCKS AND SHIPYARDS.

From May 18, 1909, the materials, articles, and implements necessary for the construction, working, installation, and preservation of the shipyards, slips, and dry docks established or hereafter established in the Republic of Uruguay are to be exempted from all import duties during a term of twenty years. Establishments operated in connection with this industry, also construction materials, and implements for the dwellings of the employees and workmen are included in this exemption, as well as the materials requisite for shipbuilding and repairs.



MODEL OF THE LEGISLATIVE PALACE, MONTEVIDEO, URUGUAY, NOW UNDER CONSTRUCTION.  
The foundation stone was laid by ex-President Batlle in 1906.

The vessels and floating workshops of the State may at any time use the dock, etc., coming under the benefits of this law without payment, the repairs, materials, and labor on the same being charged at cost price. In case the docks, etc., are occupied by other vessels, those of the State shall take their regular turn.

#### CUSTOMS RECEIPTS, NINE MONTHS, 1908-9.

Receipts at the custom-houses of Uruguay during the nine months of the fiscal year 1908-9 (July-March) totaled \$10,687,743, against \$10,163,659 for the same period of the preceding year, a gain of \$524,084 being thus shown.

For the first quarter of the calendar year 1909 (January-March) revenues from this source amounted to \$3,991,508, as compared with \$3,729,541 for the same quarter of 1908, an increase of \$261,967.



#### TARIFF MODIFICATIONS.

In attention to representations made to the executive authority by the tanning interests in the Republic, the President, under date of April 7, 1909, promulgated an executive order reducing the duties on various chemical products used in tanning skins and hides. Under the new law these products will be appraised under class 3 of the tariff.

The Government has also extended for one year, to count from April 19, 1909, the term within which lamps and other heating apparatus using alcohol as fuel may be introduced into the country free of duty.

#### CONCESSION FOR BANANA PLANTATION.

An important concession recently granted by the Venezuelan Ministry of Fomento grants to a citizen of Barquisimeto about 15,000 acres of public lands to be exploited in banana plantations. The lands are located in the neighborhood of the Yaracuy River in the section tapped by the Bolivar railway.

While the concessionaire may cultivate other fruits, it is especially stipulated that 750 acres of bananas shall be planted within two years from November, 1909.

The purpose of the Venezuelan Government to advance the growing of bananas for export is indicated by the privileges granted in the case of the present concession. For twenty-five years, free entry at the customs-houses of the Republic is to be accorded to all neces-

sary machinery and equipment for the plantations, free river navigation for the transport of the fruit to the coast, exemption from taxation both for property and product, and the right to open up such roads, etc., as may be necessary for the shipping of the bananas. The transfer of the concession to other persons is, however, prohibited.

#### LEASE OF MINING LANDS.

An executive decree dated June 3, 1909, provides for the lease to CARLOS LEON, a citizen of Venezuela, of certain mining *pertenencias* in the State of Lara, not to exceed five in number, and of an extension of 100 hectares each. Upon the demarcation of the five claims selected by the lessee the Government reserves its right to cede or lease to third parties the remaining *pertenencias* in that district which reverted to the Federal authorities under the terms of the decree law of January 25, 1909. The grant further provides for the filing of plans within sixty days and the exploitation of the claims within four years. A rental of 1,000 *bolivares* annually is stipulated, in addition to which the grantee is assessed a royalty of 3 per cent of the gross output of his claims. A forfeit of 2,500 *bolivares* is agreed upon for each *pertenencia* not exploited in accordance with the terms of the grant, which is not transferable, except with the consent of the Government. Such materials as may be necessary for the exploitation of the claims may be introduced free of duty, and, where possible, native workmen are to be employed in their development.

#### PEACE PROTOCOL WITH HOLLAND.

Under date of April 19, 1909, a protocol was signed by the United States of Venezuela and the Kingdom of Holland providing for the adjustment of pending questions between the two governments. By the terms of the protocol the Venezuelan Government obligates itself to extend to colonies of the Kingdom of Holland equal concessions to those granted to other powers represented in the Antilles more specifically. The protocol further provides for an indemnity of 20,000 *bolivares* by way of damages for shipping detained by the Venezuelan Government and the return by Holland of the Venezuelan gunboats seized in the course of its naval operations.



INTERNATIONAL UNION OF AMERICAN REPUBLICS

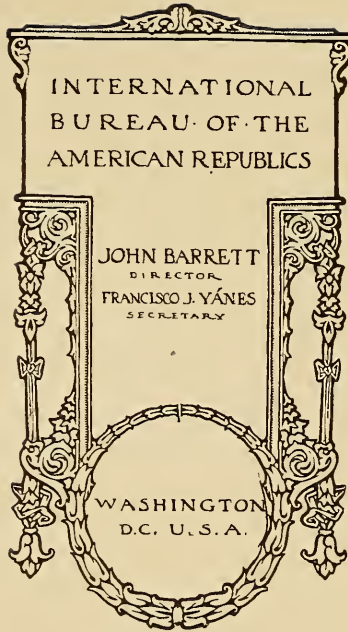
BULLETIN  
OF THE INTERNATIONAL UNION OF THE  
AMERICAN  
REPUBLICS

SEPTEMBER

1909



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CABLE ADDRESS *for* BUREAU *and* BULLETIN, "IBAR," WASHINGTON



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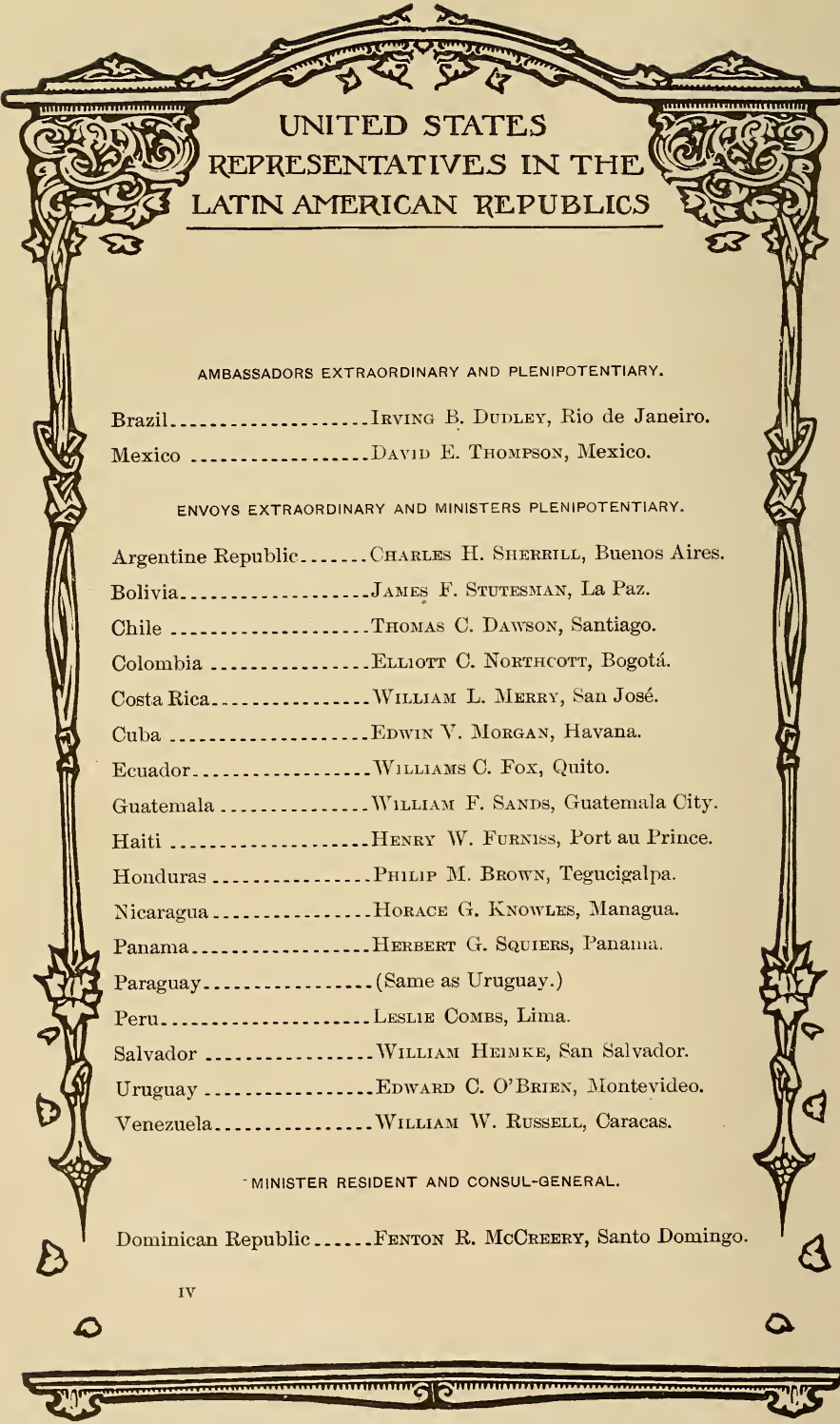
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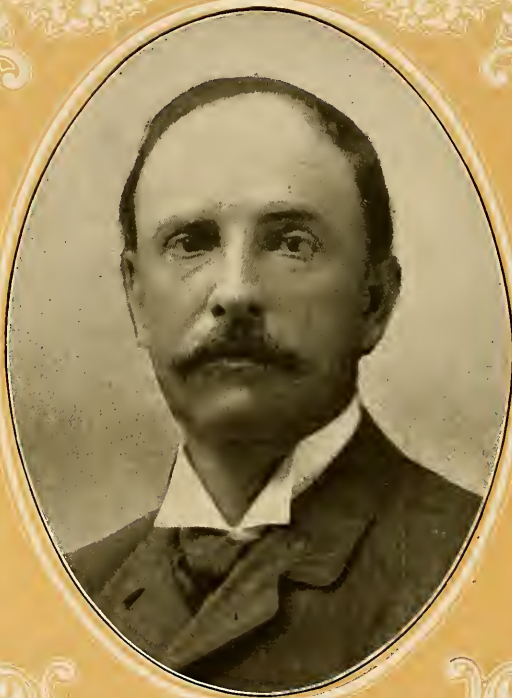
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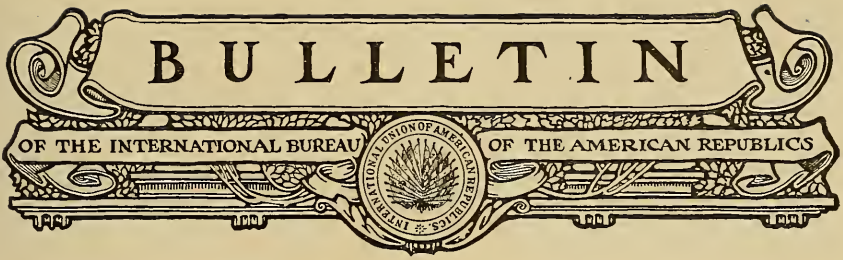




SEÑOR DON RICARDO JIMENEZ,  
PRESIDENT-ELECT OF COSTA RICA.

Dr. Ricardo Jimenez, the elected President of Costa Rica for the new term, which begins on May 8, 1910, and which ends on May 8, 1914, is a very prominent lawyer and one of the most conspicuous men in Costa Rica. He is talented and highly educated. He has filled with great credit to himself and to the best advantage of the country the most elevated official positions. He has been Envoy Extraordinary and Minister Plenipotentiary to Mexico, President of the Supreme Court of Justice, President of Congress, Secretary of State, Secretary of Finance and of Commerce, President of the College of Lawyers, Vice-President of the Republic, member of the Commission of Codification of Laws of Costa Rica. He is a very powerful parliamentary orator and author of several works on law and education. He is of a high character and a man of very strong personality and most progressive in his principles. There is no doubt that Costa Rica will derive great benefits from his government.

Mr. Jimenez is not quite 50 years old and is a member of one of the oldest and most distinguished families of Costa Rica. His father, Mr. Jesus Jimenez, was twice President of Costa Rica, and his grandfather on his mother's side, Mr. Francisco M. Oreamuno, was also President.



BULLETIN  
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No. 3.

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IT is a source of satisfaction to all who are interested in the development of closer and more reciprocal trade relations between the United States and the Latin-American Republics that the general features of the PAYNE-ALDRICH tariff bill of the United States are not inimical to an increase in the exchange of commerce. In one important respect the new law is much more favorable to Latin America than the DINGLEY tariff. Under the latter hides of cattle paid an import duty of 15 per cent ad valorem; in the PAYNE-ALDRICH bill they are free. Considering the fact that two-thirds of the Latin-American countries ship hides to the United States, this is a feature that should be appreciated by those nations. Heretofore, when there has been any discussion of reciprocal treaties, Latin America has always asked for free hides, but has met with the flat refusal of the United States. The wording of the new law is, therefore, an important concession by the latter to the former. It is also worthy of note that the efforts to place a duty on coffee and cacao and an increased duty on quebracho wood failed of approval. The maximum and minimum provisions of the tariff law should not prove a burden to the countries of Latin America, because few, if any of them, have treaties with foreign countries other than the United States in which they give preferential rates of which the United States can not take advantage. While the new law is far from being what many would desire it to be as an aid to the development of foreign commerce, it is still a long step forward, and under its provisions there should be a marked increase in the exchange of exports and imports between the United States and her sister Republics.

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THE OPINION OF AN EMINENT JOURNALIST.

One of the leading afternoon newspapers of the United States is the "Buffalo Evening News," and its editor, Mr. EDWARD H. BUTLER, stands high in the ranks of American journalists. It is gratifying evidence of the practical value of the BULLETIN when it is frequently quoted

by a paper of the quality of the "News" and is complimented by a man of Mr. BUTLER'S practical judgment. In a recent communication to the Director he says:

There is no warmer supporter of your Bureau, or one more appreciative, than myself. My staff make constant use of the BULLETIN in every number, and there are many articles of one kind or another from its contents which we never question as to reliability. I warmly congratulate you on the review number, and even more on the steady excellence of the regular issues with their unflinching advance in worth and in the timeliness of their articles and data.

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CHIEF OF THE NEW LATIN-AMERICAN DIVISION OF THE STATE DEPARTMENT.

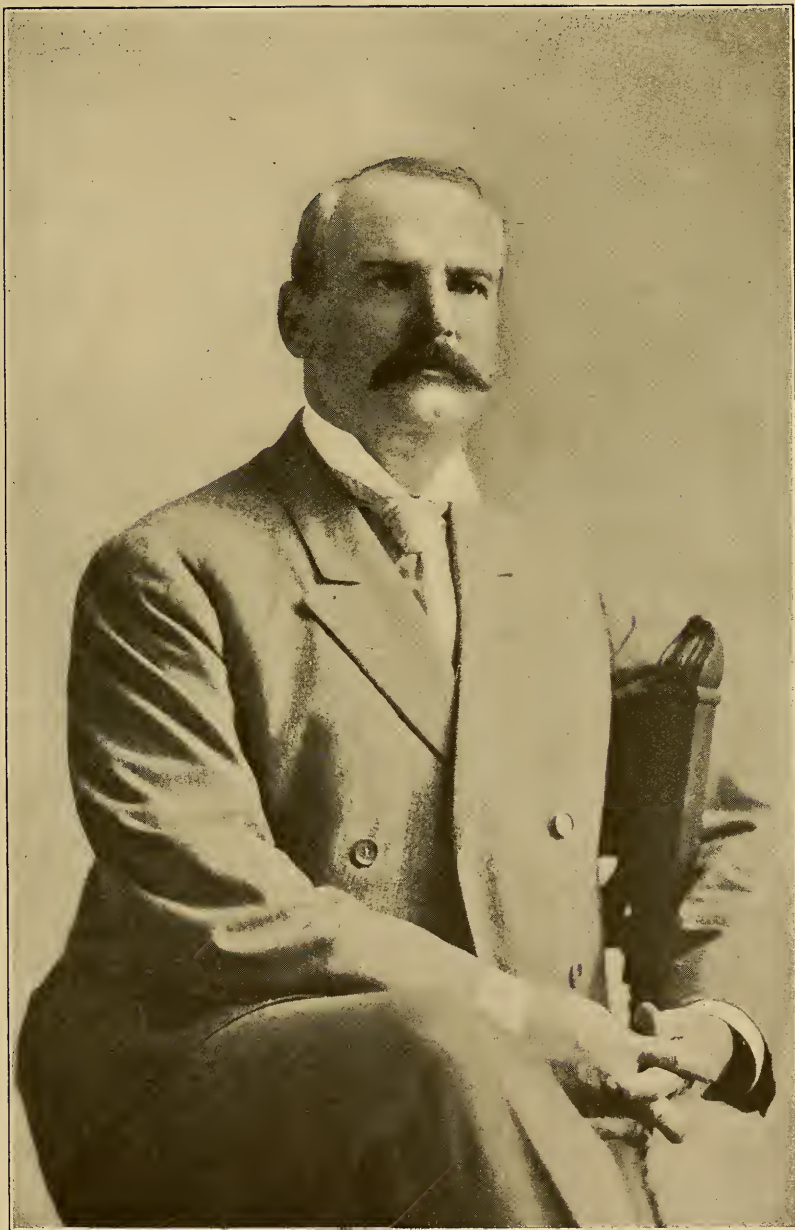
Hon. THOMAS C. DAWSON, the chief of the newly created division of the State Department, to be known as the Division of Latin-American Affairs, is at present the Minister of the United States to Chile. He has been in the diplomatic service for the past twelve years, having been appointed Secretary of Legation at Rio de Janeiro in June, 1897. Mr. DAWSON was born at Hudson, Wisconsin, July 30, 1865. He received his early education in the public schools of that city and Eau Claire, Wisconsin, and later attended Hanover College, Indiana, Harvard, and the Cincinnati Law School. In 1882 he published a country newspaper in Florida, and was later editor of a newspaper in Council Bluffs, Iowa, and was assistant attorney-general of Iowa from 1891 to 1894. He practiced law until 1897, in which year he became Secretary of the Legation at Rio de Janeiro, and later Chargé d'Affaires in the same city. In 1904 he was appointed Minister Resident and Consul-General to the Dominican Republic, and his important services in connection with the financial difficulties of that island Republic showed him to be a man of ability and initiative. In 1907 he was appointed Envoy Extraordinary and Minister Plenipotentiary to Colombia, a position which required a man of tact and diplomacy to fill on account of the differences between the United States and that country following the secession of Panama. Mr. DAWSON is the author of "South American Republics," published in two volumes in 1904.

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APPRECIATION OF THE ANNUAL REVIEW NUMBER OF THE MONTHLY BULLETIN.

As evidence of the general appreciation of the value of the July, or annual review, number of the MONTHLY BULLETIN of the International Bureau, hundreds of newspaper notices and letters from diplomats, Members of Congress, business men, students, and travelers in all parts of the world could be quoted. If they were given in full they would occupy one whole issue of the BULLETIN. This is mentioned here, not with the object of praising what the Bureau is doing, but simply for the purpose of showing to those who do not fully understand the work and the purpose of the Bureau and BULLETIN, and hence are disposed to be unduly critical, that their labors, even though far from perfect, are not in vain. No one appreciates the shortcomings of the Bureau and the imperfections of the BULLETIN more than the Director, who is always pleased to receive suggestions for their improvement. He is, however, correspond-





Photograph by Harris-Ewing.

HON. THOMAS C. DAWSON,

Envoy Extraordinary and Minister Plenipotentiary from the United States of America to Chile, who has been appointed chief of the newly created division of the State Department—the Division of Latin American Affairs.

ingly glad to note that the efforts of the loyal staff of the Bureau in making the BULLETIN a genuinely valuable agency for the development of Pan-American comity and commerce have resulted in the publication of a review of Latin-American commercial, economic, and general conditions, which will make it a standard book of reference for those who wish succinct and reliable data concerning that part of the world. There is no more critical judge than the writer on the "New York Sun," who discusses from time to time in its editorial pages the subject of Pan-American relations. In the August 4, 1908, issue of the "Sun" is an extended review of the BULLETIN, from which a brief extract is quoted below:

The Bureau of the American Republics has recently issued a very valuable publication in the form of an annual review of conditions in Latin America. The Bureau has published such reviews for a number of years, but in the matter and treatment thereof the latest issue is far ahead of any of its predecessors. The reviews of 1904, 1905, and 1906 made pamphlets of about 100 pages. The review of 1907 covered 175 pages. The story of 1908 runs up to nearly 300 pages, with maps, diagrams, and illustrations. The commercial statements of all the countries reported are as complete as it has been possible to make them. The omissions are due to the fact that some of the Republics do not keep elaborate and up-to-date records of their trade with other lands. \* \* \*

The foregoing quotation is only one from a large number of editorials which have appeared in the press of North and South America and Europe. As further actual proof of the value of the BULLETIN the remarkable fact can be noted that a large percentage of the Members of the United States Senate and House of Representatives have written to the Bureau expressing approval of the July issue and asking that they be provided with extra copies to forward to their constituents.

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THE MINISTER OF THE UNITED STATES OF AMERICA TO SALVADOR.

HON. WILLIAM HEIMKÉ, the newly appointed Minister to Salvador, is a native of France, having been born in that country in 1847, and naturalized in the United States. He came to America at a very early age and entered the Regular Army at the age of 15. He served with distinction during the civil war, being engaged in several important battles. After the war he served as headquarters clerk under Generals SHERMAN, POPE, HANCOCK, and SHERIDAN, and was also in the Quartermaster's and Commissary Departments. In 1881 he became purchasing agent for the Mexican Central Railroad and in 1883 was appointed general manager of the Chihuahua and Durango Telephone Company in Mexico. In 1887 he again entered the service of the United States as Vice-Consul at Chihuahua. He was advanced to Consul in 1892 and retired in 1893. In 1897 he became Second Secretary of the Legation in Mexico, and was promoted to First Secretary of the Legation at Bogota, Colombia, in 1906. He was appointed Envoy Extraordinary and Minister Plenipo-



Photograph by Harris-Ewing.

HON. WILLIAM HEIMKE,  
Envoy Extraordinary and Minister Plenipotentiary from the United States of America to Salvador.

tentiary to Guatemala March 10, 1908. Mr. HEIMKÉ is a member of the American Academy of Economic, Social, and Political Science of Philadelphia and of the International Folk Lore Society of Chicago.

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MOBILE AS A PORT OF FOREIGN COMMERCE.

Mobile, Alabama, from its remarkable location on the Gulf of Mexico, has a great opportunity for the development of its commercial relations with the Latin-American countries bordering on the Gulf and the Caribbean Sea. A pamphlet recently issued entitled "Memorial and Map Prepared by the Mobile Basin and Tennessee River Association," has just been received by the Bureau. A recent editorial in the "Mobile Register," referring to the able letter addressed by Secretary KNOX to Congress in which he asked an appropriation of \$100,000 for the use of the State Department in looking after the promotion of closer trade relations of the United States with Latin America and the Orient, points out Mobile's opportunity of getting into closer touch with the business centers of Latin America and urges its people to awake to the value of this field. The more discussion of this character that goes on in the papers of representative southern cities like Mobile, the sooner will the Southern States realize the vast benefits that will accrue to them from trade with Latin America and the opening of the Panama Canal. Mr. L. C. IRVINE, who is well known as an advocate of increased trade of the United States with Latin America, is now located in Mobile and is bending his best efforts and energies to make that city take advantage of its advantageous position in obtaining its share of the commerce of the high seas.

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MINISTER SHERRILL'S FOURTH OF JULY ADDRESS AT BUENOS AIRES.

The Buenos Aires papers give much space and attention to the address delivered by Hon. CHARLES H. SHERRILL, United States Minister to the Argentine Republic, on the occasion of the celebration of the Fourth of July by the American colony. Mr. SHERRILL'S remarks were forcible and diplomatic, and pointed out in a lucid manner the agencies which ought to develop closer relations between the United States and the Argentine Republic. If the kind of diplomacy and effort that he advocated are employed a much closer acquaintance between the United States and that progressive country in the southern end of South America should develop. Equal opportunities exist in other republics, and considering the able corps of Ambassadors and Ministers who now represent the United States in the Latin-American capitals and the competent Ambassadors and Ministers who, in turn, represent Latin America at Washington, the new feeling of closer friendship, started by Hon. ELIHU ROOR in his remarkable journey around the South American Continent, should be made stronger and consequent material benefits result to all the countries concerned.

## THE MINISTER OF THE UNITED STATES OF AMERICA TO GUATEMALA.

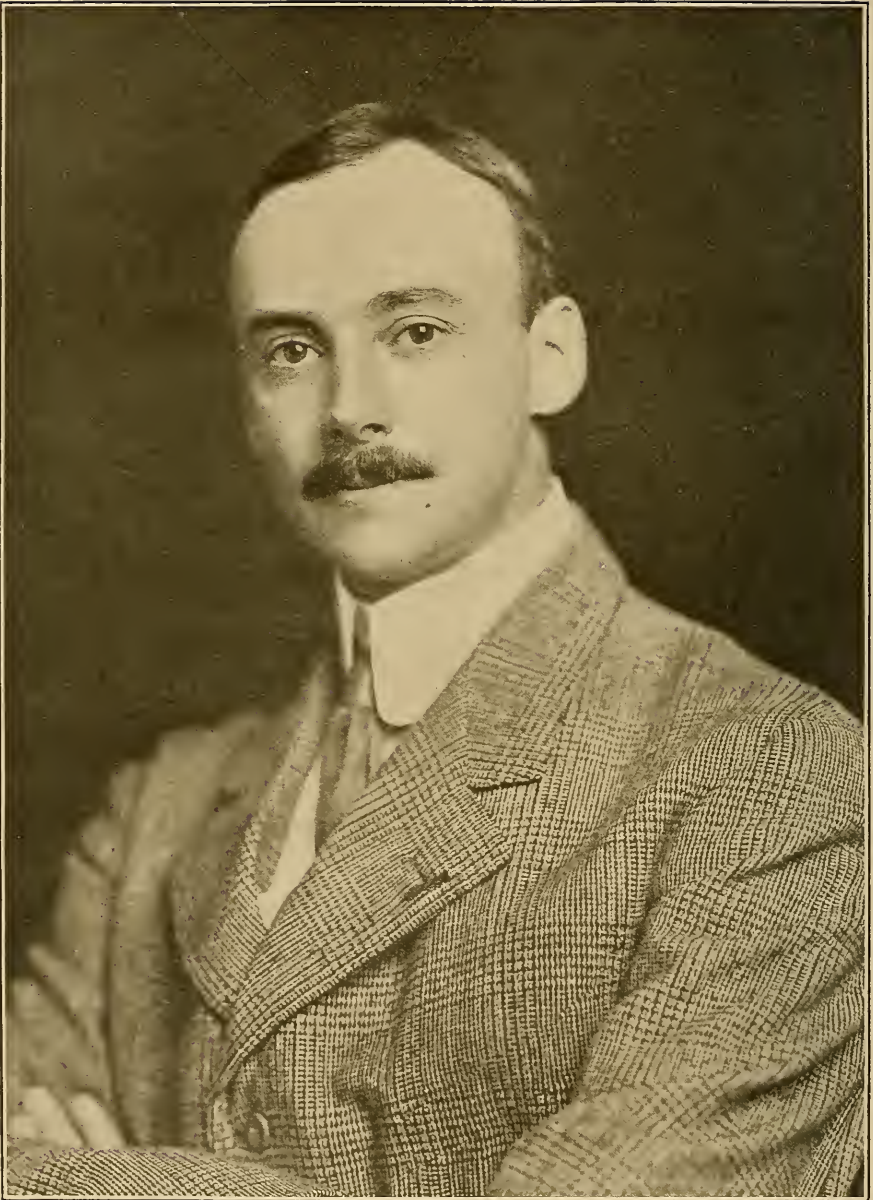
WILLIAM F. SANDS, the newly appointed Minister to Guatemala, was born in Washington, District of Columbia, July 29, 1874. He studied at Feldkirch, Austria, and later attended the Georgetown (District of Columbia) Law School, from which he graduated in 1896, in which year he was appointed Second Secretary of the Legation at Tokyo. He was appointed Secretary of Legation at Seoul, Korea, in 1897, and resigned in 1899, while Chargé d'Affaires ad interim, to take effect January 15, 1900. In the latter year he was honored with the appointment of Adviser to the Emperor of Korea, which post he occupied until 1905, when he was appointed Secretary of the Legation at Panama. He was appointed Secretary of the Legation at Guatemala in 1907 and Secretary of the Embassy at Mexico City in 1908.

## A BROOKLYN EDITOR'S VISIT TO LATIN AMERICA.

The International Bureau is glad to learn that Mr. HERBERT L. BRIDGMAN, prominently connected with the "Brooklyn Standard Union" and a great traveler, is planning an extended tour around South America. He undertakes this trip in order to acquaint himself with that part of the world, and says that he has been largely prompted to make the journey as a result of the propaganda of the Bureau. The more men of this kind visit the sister Republics the more quickly will correct information about those countries be disseminated throughout the United States. The "Standard Union" of July 25, 1909, contains an editorial under the caption "Value of the Bureau of American Republics," which expresses Mr. BRIDGMAN'S views in regard to this institution in such terms that the Bureau feels rewarded for its efforts to please critical observers of his experience and judgment.

## PAN-AMERICAN SPEECH OF CONGRESSMAN SULZER.

On July 8, 1909, Hon. WILLIAM SULZER, Member of Congress from New York, made a notable speech in the House of Representatives in regard to Latin America. It was one of the best addresses on the subject ever delivered in that Chamber, and expressed a sincere and correct appreciation of the progress and possibilities of the southern Republics. On account of the demand for Mr. SULZER'S remarks the Bureau has distributed over 2,000 copies, the number placed at its disposal. Its supply is entirely exhausted, but if anybody wishes one he can obtain it by writing directly to Mr. SULZER. This address was the result of a recent trip which Mr. SULZER made to Guatemala and Honduras. So impressed was he with what he saw there that he is now reported to be planning a journey to South America proper.



Photograph by Harris-Ewing.

HON. WILLIAM F. SANDS,

Envoy Extraordinary and Minister Plenipotentiary from the United States of America to Guatemala.

## AMERICAN HISTORICAL ASSOCIATION MEETING.

Prof. WILLIAM R. SHEPHERD, of Columbia University, New York City, who is greatly interested in Pan-American affairs and who has made several trips to South America, is now arranging for a special section devoted to "The History of the Romance Nations in America," in the sessions of the American Historical Association, which will be held in New York City during the week beginning December 27, 1909. The themes to be treated are the following: "The French Element in the History of America," "The Spanish Element in the History of America," "The Portuguese Element in the History of America," "The Broader View of American History," and "The United States and the Republics of Latin America." The Director of the Bureau has been asked to act as chairman of this section during the presentation of the several topics named. Among those invited to read papers are Ambassador NABUCO, Prof. RAFAEL ALTAMIRA, of the University of Oviedo, and Prof. I. S. ROWE, of the University of Pennsylvania.

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 CONSUL-GENERAL OF PARAGUAY IN NEW YORK CITY.

FÉLIX AUCAIGNE, the Consul-General of Paraguay in New York, was born in Paris in 1833, and is a graduate of the University of France and of the Law School of Paris. He came to the United States at the age of 18, but later returned to Paris, where he became a professor in several institutes, a correspondent of the "New York Nation," and one of the editors of "*Le Droit*," "*La Revue de Paris*," "*L'Illustration*," "*L'Avenir*," and other papers. In 1857 he was sentenced to imprisonment as being a leader in the Secret Society of the Free Judges. After spending some months in jail, Mr. AUCAIGNE returned to New York, and later went to Providence, Rhode Island, where he taught for four years. In 1864 he returned to Paris, became foreign editor of "*La Patrie*," "*L'Universal*," and "*L'International*," and served as a private in the National Guard during the German siege. He returned to this country in 1871 and served as foreign editor and correspondent of several American newspapers, finally locating in New York, where in 1894 he was appointed Consul of Paraguay and in 1896 Consul-General. Mr. AUCAIGNE is the American correspondent of "*La Prensa*," one of the largest newspapers of Buenos Ayres, Argentina, and takes an active interest in everything pertaining to the country he represents as well as to the other Republics of Latin America.

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 OPPORTUNITY FOR UNITED STATES INSURANCE COMPANIES IN CHILE.

The attention of the International Bureau has been called by Mr. LEONARD C. HART, of Valparaiso, to the fact that there is a good opening



SEÑOR DON FÉLIX AUCAIGNE,  
Consul-General of Paraguay to the United States in New York.



in Chile for United States insurance companies. At the present time there is practically no representation of such companies in that Republic, the business being almost entirely done by European and local corporations. Mr. HART has corresponded with the Bureau on this subject, and also through the late United States Minister to Chile, Hon. JOHN HICKS. From his statements there appears to be no question that the field is one which should be improved, and if any United States insurance company desires to know more of the opportunity it would be well for it to communicate directly with Mr. HART at Valparaiso, or through the International Bureau.

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#### SCHOOL OF ARCHEOLOGY IN MEXICO.

President NICOLAS MURRAY BUTLER, of Columbia University, has for a long time taken an active interest in the movement to organize a school of archeology in Mexico City. It is, therefore, gratifying to note that the Mexican Government expresses its approval of the plan for the establishment of the school and has given assurances that it will contribute 6,000 pesos annually for its maintenance. The universities of Columbia, Harvard, Pennsylvania, and Paris, as well as the Institute of Archeology and the Hispanic Society of America, will also contribute to its support, and the indications are that great interest in its work will be awakened among archeological students the world over.

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#### RESOLUTION OF THE SEVENTEENTH UNIVERSAL PEACE CONGRESS.

At the Seventeenth Universal Peace Congress, which assembled in London in the latter part of July, 1909, there was recognition of the new building which is being erected in Washington as the permanent home of this institution. The following appears under the subject "Peace Temple at Washington" in a pamphlet recently published, containing the resolutions of the Congress:

The Congress notes with high appreciation the laying of the corner stone of the Peace Temple at Washington—to which Mr. CARNEGIE has generously contributed \$750,000—to be used by the Bureau of American Republics to promote the common interests of the Latin-American States with each other, and with the United States of America.

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#### THE LETTERS OF MR. FELIX AUCAIGNE.

Among the Latin-American newspaper correspondents who are trying to bring about a better understanding between North and South America, is Mr. FELIX AUCAIGNE, Consul-General of Paraguay in New York, and an interesting writer for the columns of "*LaPrensa*," of Buenos

Aires. Mr. AUCAIGNE has lived a long time in New York City and has become so familiar with conditions in that metropolis, and in this country generally, that he is able to speak with authority. He has been especially kind in his appreciative reference to the work of the International Bureau, and there is no doubt that his writings have tended to make the Bureau better understood in South America.

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CONSUL-GENERAL OF BOLIVIA IN NEW YORK CITY.

JOSÉ AGUIRRE-ACHÁ was born in Cochabamba, Bolivia, in 1877. He is a son of NATANIEL AGUIRRE, one of the leading statesmen of the Republic, and a grandson of General ACHÁ, a former President. He received his education at the University of Cochabamba, taking the degree of bachelor of laws and entering commercial life soon after graduation. Mr. AGUIRRE has held successively the following positions in the Government: Secretary of the Commission to Revise the Census of the several Provinces; Inspector and Acting Collector of Customs at Oruro; Inspector of Custom-Houses and Fiscal Offices of Beni and Colonial Territory; Secretary of the Department of Public Works; Secretary of the Argentine Boundary Commission; Consul-General of Bolivia in San Francisco; Subsecretary of Government and Fomento, and Consul-General in New York. He served in the campaign of Acre, crossing the South American Continent from the Pacific to the mouth of the Amazon. Mr. AGUIRRE is a corresponding member of the Geographical Society of La Paz, and is the author of a book entitled "De los Andes al Amazonas." He is also preparing a handbook on Bolivia and a hypsometric map of that Republic.

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NEW MEMBER OF COURT OF JUSTICE.

Official advices received by the International Bureau of the American Republics announce that Dr. SALVADOR GALLEGOS, the representative of the Republic of Salvador in the Central American Court of Justice, having resigned his office, Dr. MANUEL I. MORALES, a learned Salvadorian lawyer, has been appointed in his stead. Doctor MORALES has filled positions of the greatest importance, and has been Minister of Foreign Relations, and Minister Plenipotentiary of his country to Costa Rica, Honduras, Nicaragua, and the United States.

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PAMPHLET PREPARED BY MR. QUESADA.

Among the different pamphlets of practical value which the International Bureau is publishing from time to time is one that has been extensively and favorably received by exporters. It is a compilation of consular fees and invoices of the Latin-American countries which must



SEÑOR DON JOSÉ AGUIRRE-ACHÁ,  
Consul-General of Bolivia to the United States in New York.

be used by shippers of exports thereto. The data for this pamphlet were prepared by Mr. GONZALO DE QUESADA, late Minister of Cuba to the United States, who is a recognized authority on all commercial matters pertaining to Pan-American trade. Any exporter can secure a copy of this publication by addressing the International Bureau.

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TRADE PUBLICATIONS FOR THE ADVANCEMENT OF COMMERCE.

Among the many publications devoted to the advancement of commerce and trade received by the International Bureau from all parts of the world one of the most interesting, practical, and best edited is the "Chicago Commerce," issued weekly by the Chicago Association of Commerce, a powerful organization of the representative men of that city, who are doing all in their power to advance its business and civic welfare. The editorial management is under the direction of WILLIAM HUDSON HARPER, a man of large experience in general publicity work. In this connection the International Bureau notes with pleasure the step that has been taken by the Chicago Association of Commerce to promote its interests in Latin America. It has made arrangements with Mr. LEOPOLD GRAHAME, of Buenos Aires, to establish an agency in the capital of the Argentine Republic for the purpose of building up trade between Chicago and that progressive country. Mr. GRAHAME has lived many years in the Argentine Republic, and is thoroughly familiar with the import and export trade. If the agency which he is establishing accomplishes what is desired a long step will be taken toward putting one of the leading manufacturing cities of the United States in close touch with the country that has the largest foreign trade of any Latin-American nation, and may lead to the opening of agencies in other Republics like Brazil, Chile, Peru, and Mexico. We wish Mr. GRAHAME success in his new line of commercial effort.

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CONSUL OF THE UNITED STATES OF AMERICA AT SAN LUIS POTOSI, MEXICO.

GEORGE A. BUCKLIN, Jr., was born at West Hartford, Missouri, October 5, 1875. He had a common-school education and taught a district school at the age of 17. He studied law for two years, graduated with honors from the University of Oklahoma, and the following year went to Yale, where he secured the degree of master of arts in 1904. Later he was appointed to the faculty of the University of Oklahoma, and soon after was appointed Consul at Glauchau, Germany. In June, 1908, he was promoted to the newly created Consulate at San Luis Potosi. While at Yale, Mr. BUCKLIN pursued a course of study in International Law with special reference to the Consulate Service, and the knowledge of Spanish, French, and German gained at his alma mater will serve him in good stead in the Consular Service.



GEORGE A. BUCKLIN, JR.,  
Consul of the United States of America at San Luis Potosi, Mexico.

## TRACY ROBINSON AN AUTHORITY ON TROPICAL COUNTRIES.

The International Bureau has received an interesting pamphlet containing the address delivered at Colon, Panama, July 4, 1909, by TRACY ROBINSON, who has resided for many years on the Isthmus. Mr. ROBINSON is thoroughly familiar with the conditions of life, not only at Panama, but through the whole tropical belt, having made a careful study of the possibilities of these sections of the world which, in the past, have been looked upon as limited in their opportunities and attractions because of their location near the equator. His discourse points out the great changes that have come to Panama and the future possibilities of the countries which, heretofore, have seemed unsuited to population and industry. The closing paragraph of his address contains these eloquent and prophetic words in regard to Panama:

Her wild domain only awaits the advent of intelligent industrial pioneers as home makers to change the dark frown of impenetrable forests to a summer smile, jungle solitudes to gardens of fruit and flowers. Time, aided by intelligence and patience and faith and unflinching devotion, will in the end surely win the day. May the guardian gods that rule the realms of peace and plenty, forever and ever be her friends.

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THE SHARE OF AMERICA IN CIVILIZATION.

The Brazilian Ambassador, Mr. JOAQUIM NABUCO, has added to the long list of brilliant addresses he has delivered another on the subject "The Share of America in Civilization." This study of a great topic was prepared by him as a baccalaureate address to be delivered before the University of Wisconsin on June 20, 1909. The Ambassador was prevented by ill health from personally attending the Wisconsin commencement, but his address was read by President VAN HISE. It has been most favorably commented upon by those who heard or have read it, and is worthy of careful perusal by all who wish to profit by the erudition of a diplomat and historian of the high rank of the Brazilian Ambassador.

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MINISTER CALVO AT THE NATIONAL IRRIGATION CONGRESS.

One of the most interesting addresses delivered at the National Irrigation Congress held at Spokane in the State of Washington, August 9 to 14, was that of Sr. DON JOAQUIN BERNARDO CALVO, Minister of Costa Rica. There was present at this gathering a number of representatives of Latin-American countries, but Mr. CALVO was the only Minister Plenipotentiary in attendance. It was hoped that he could also speak at the Trans-Mississippi Congress in Denver and at the Seattle Exposition, but limitations on his time prevented.

## CONSUL OF THE UNITED STATES OF AMERICA AT MANAGUA, NICARAGUA.

JOSÉ DE OLIVARES was born in California, but is a resident of St. Louis, Missouri. Most of his life prior to his appointment as Consul at Managua, in June, 1906, was spent in travel in European and Latin-American countries. During the Spanish-American war he served as war correspondent for the St. Louis "Globe-Democrat" in Cuba and Porto Rico, and his writings were subsequently reproduced in a two-volume work entitled "Our Islands and their People." Mr. OLIVARES was appointed one of the Commissioners of the St. Louis Exposition to secure the participation of foreign governments, and in that capacity was sent to various Spanish-speaking countries, one of these, Argentina, returning him to the United States as one of its Commissioners to the Exposition. Mr. OLIVARES is particularly well fitted for the position he occupies, speaking both English and Spanish fluently.

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## A BRITISH JOURNALIST IN LATIN AMERICA.

That British interest in the South and Central American Republics is increasing is proved by the approaching departure of the experienced and well-known special press correspondent of England, PERCY F. MARTIN, F. R. G. S., who will visit Venezuela, Colombia, Panama, Peru, Chile, Ecuador, Paraguay, Brazil, the Argentine Republic, and all of the Central American States. Mr. MARTIN is regarded as an authority upon Latin-American matters, and has published the following works: "Through Five Republics of South America," "Mexico of the Twentieth Century," "Mexico's Treasure House," "Handbook to Latin-American Investments," etc., most of which have been reviewed in the pages of the MONTHLY BULLETIN. He will act as special correspondent for the "Central News," "The Times" (Engineering Supplement), "The Financial Times," "The Engineer," "The Railway Gazette," "The British Trade Journal," "American Industries," "The South American Journal," and some other publications. The Bureau wishes Mr. MARTIN success in his extended and important mission.

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## APPOINTMENT OF A VICE-CONSUL IN WASHINGTON.

Mr. GONZALO LEDÓN, Chancellor of the Cuban Legation in Washington, has been appointed Vice-Consul; and is therefore authorized to issue all kinds of certificates in the Legation, thereby avoiding delays which formerly occurred because it was necessary to send documents for Cuba requiring certification to the Consul-General in New York.



JOSÉ DE OLIVARES,  
Consul of the United States of America at Managua, Nicaragua.



# MONTH OF SEPTEMBER IN PAN - AMERICAN HISTORY

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- September 1, 1823.—Gen. SIMON BOLÍVAR enters Lima, Peru, where he is received in great triumph.
- 1, 1851.—The Cuban patriot, NARCISO LOPEZ, having been defeated in an attempt to liberate Cuba, is executed at Havana.
- 2, 1845.—Death of BERNARDINO RIVADAVIA, the first President of the Confederation of the United Provinces of the River Plata (now the Argentine Republic) at Cadiz, Spain.
- 2, 1904.—The Republic of Honduras adopts a new Constitution.
- 3, 1783.—Treaty of Peace between Great Britain and the United States of America signed at Paris, France.
- 5, 1847.—Gold mines discovered in the State of California, United States of America.
- 6, 1609.—HENRY HUDSON, in the service of the Dutch, sailed into Long Island Sound, and discovered the Hudson River.
- 7, 1904.—The International Geographic Congress meets at Washington, D. C.
- 7, 1906.—First International Geological Congress meets at Mexico City.
- 7, 1822.—Brazil declares its independence and separation from Portugal, to which the Prince Regent, DOM PEDRO, adheres, uttering the memorable words "Independencia o Muerte!"
- 10, 1906.—ELIHU ROOT, Secretary of State of the United States of America, arrives at Lima, Peru, on board the U. S. S. *Charleston* on an official visit to the Latin-American Republics.
- 10, 1812.—Battle of Lake Erie. Commodore PERRY defeats the English squadron.
- 10, 1862.—Death of DON CARLOS ANTONIO LOPEZ, first President of the Republic of Paraguay.
- 12, 1502.—CHRISTOPHER COLUMBUS, after having weathered a severe storm, finds and doubles "Cape Gracias á Dios (thanks to God) on the coast of Nicaragua.
- 12, 1905.—Boundary treaty between Colombia and Peru signed at Bogota.
- 14, 1805.—ROBERT FULTON successfully attempts steam navigation on the Hudson River.
- 14, 1863.—The railway between Valparaiso and Santiago, Chile, by HENRY MEIGGS, is opened to the public.
- 14, 1901.—Death of WILLIAM MCKINLEY, President of the United States, who was shot at Buffalo, New York, on September 9.
- 15, 1821.—Declaration of Independence of the Central American States declared at Guatemala.

September 15, 1829.—Slavery abolished in Mexico.

- 15, 1857.—WILLIAM HOWARD TAFT, the twenty-seventh President of the United States of America, born at Cincinnati, Ohio.
- 15, 1908.—Ratifications of the treaty between Brazil and Holland are exchanged at Rio de Janeiro, fixing the boundary line between Brazil and Dutch Guiana.
- 16, 1810.—The first movement for independence is initiated by the Mexicans at Dolores, led by the priest and patriot, DON MIGUEL HIDALGO Y CASTILLO.
- 17, 1787.—A convention at Philadelphia, Pennsylvania, adopts the Constitution of the United States of America.
- 18, 1810.—Chile elected its first "Junta Nacional de Gobierno" (National Governing Board), thus establishing an independent government but recognizing the authority of the King of Spain.
- 18, 1907.—A treaty of arbitration is signed between Italy and the Argentine Republic at The Hague, Holland.
- 19, 1807.—The British, having been defeated in their second attempt to conquer the La Plata countries, evacuate Montevideo.
- 19, 1881.—Death of President GARFIELD (twentieth President of the United States of America) at Long Branch, New Jersey.
- 20, 1519.—FERNANDO DE MAÇALHÃES, a Portuguese navigator, sailed from San Lucar, Spain, with three ships, on a voyage of exploration.
- 21, 1908.—Opening of the International Tuberculosis Congress at Washington, D. C., United States of America.
- 22, 1830.—The United States of Venezuela declare their separation from the Republic of Colombia and adopt a Constitution.
- 22, 1908.—An International Fisheries Congress meets at Washington, D. C., United States of America, at which delegates from Mexico, Guatemala, and Ecuador were present.
- 23, 1779.—The American Admiral, JOHN PAUL JONES, captures two English frigates off the coast of England.
- 24, 1789.—Organization of the Supreme Court of the United States of America.
- 25, 1493.—COLUMBUS sailed from Cadiz, Spain, on his second voyage of exploration and discovery, with a fleet of 17 ships and 1,500 persons on board, together with seeds, horses, and other domestic animals with which to found a new colony in the West Indies, previously discovered by him.
- 25, 1860.—The Constitution of the Argentine Republic is definitely framed and adopted by all the Provinces at a Convention held at Santa Fé.
- 26, 1513.—VASCO NUÑEZ DE BALBOA discovers the Pacific Ocean and takes possession of it and the lands adjoining it in the name of the King of Spain.
- 27, 1772.—DON AGUSTIN DE ITURBIDE, Emperor of Mexico, born at Valladolid, Mexico.

- September 27, 1821.—ITURBIDE entered Mexico City in triumph at the head of his troops, the Spanish forces having evacuated the city.
- 27, 1908.—Celebration of the two hundred and fiftieth anniversary of the city of Pittsburg, Pennsylvania, United States of America.
- 28, 1871.—The Congress of the United States of Brazil passes a bill providing for the gradual emancipation of slaves.
- 28, 1873.—Death of WILLIAM WHEELWRIGHT, North American captain of industry.
- 29, 1810.—Don MIGUEL HIDALGO Y CASTILLO, the Mexican patriot, defeats the Spanish troops and captures Guanajuato.
- 29, 1908.—Opening of the National Irrigation Congress at Albuquerque, New Mexico, United States of America.
- 30, 1765.—JOSÉ MARIA MORELOS Y PAVON, a Mexican priest, who took an active part in the revolution of independence and fought under Hidalgo, born at Apatzingan, Michoacan, Mexico.
- 30, 1877.—Death of HENRY MEIGGS, a North American captain of industry, at Lima, Peru. MEIGGS was the promoter and builder of a number of railways in Chile and Peru, among which the Pacific and Transandine Railway, connecting the port of Callao with Lima and Oroya (15,650 feet high), is one of the most daring feats of engineering.
- 30, 1907.—ELIHU ROOT, Secretary of State of the United States of America, arrives in Mexico City on an official visit, where he is received with great honors, residing during his short stay at the famous castle of Chapultepec.

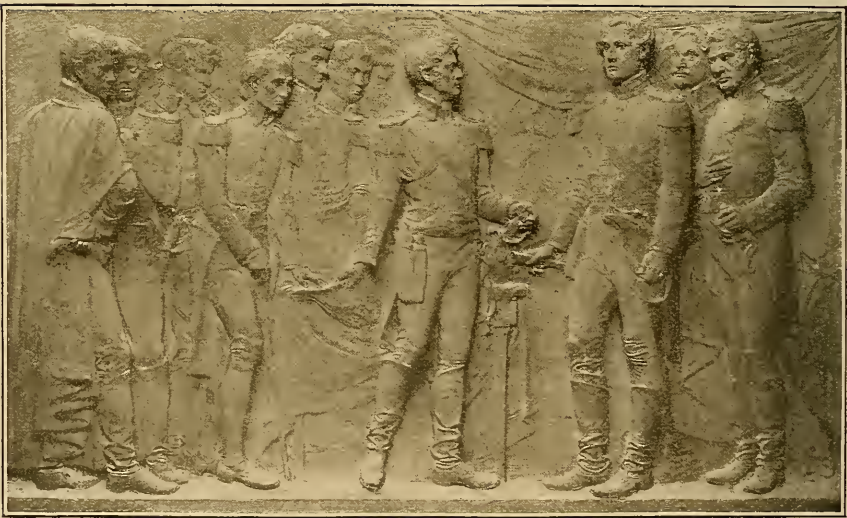




# Meetings of American Presidents

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**I**N the year 1822 the port of Guayaquil, in Ecuador, was the scene of one of the most notable events in the history of America. BOLÍVAR, the liberator of the northern Provinces, and SAN MARTÍN, the liberator of the southern Provinces, met together for a conference that decided the destiny of South America. BOLÍVAR was certain that his genius would be rewarded by the honor of the election



MEETING BETWEEN SAN MARTIN AND BOLÍVAR.

This bas-relief by Isadore Konti depicts the memorable scene between San Martín and Bolívar at Guayaquil in 1822. It will form one of the two panels of the front of the new building of the International Bureau of the American Republics in Washington, D. C., now nearing completion.

to the first presidency of the country to which he had given freedom. SAN MARTÍN, had he but asked it, could have become the elected head of a new nation. SAN MARTÍN withdrew, however. The war against Spain had still months to run before a constitution could be made effective, and therefore this hoped-for first meeting of presidents was only a dream that might have been.

History shows that the struggle for liberty continued for a generation beyond the elections of the first presidents in many of the Republics of America. Early meetings may have taken place between some of them for the purpose of informal discussion concerning unsettled



MEETING IN THE STRAITS OF MAGELLAN BETWEEN THE PRESIDENTS OF ARGENTINA AND CHILE, LIEUTENANT-GENERAL JULIO A. ROCA AND DOCTOR FEDERICO ERRÁZURIZ, IN 1898.

policies of constitution and government, but there are scant evidences of any such personal communication. One meeting, however, is recorded, which was fruitful of results that influenced the future development of the whole region of the River Plate. This occurred in

the year 1865. At that time the war in Paraguay had reached a crisis. The Argentine Republic, Uruguay, and Brazil had decided to combine forces against President LOPEZ, of Paraguay, but at the moment harmony of action had been lacking because of indefiniteness of purpose among the three Republics. It was then that President FLORES, of Uruguay, crossed to Buenos Aires to confer with President BARTOLOME MITRE, of the Argentine Republic. He was received in state, but the council was one for military deliberation rather than for official and diplomatic ceremony. The Brazilian Minister was called to this meeting and these three agreed upon an offensive and defensive alliance, the consequences of which are seen in the national boundaries of to-day.

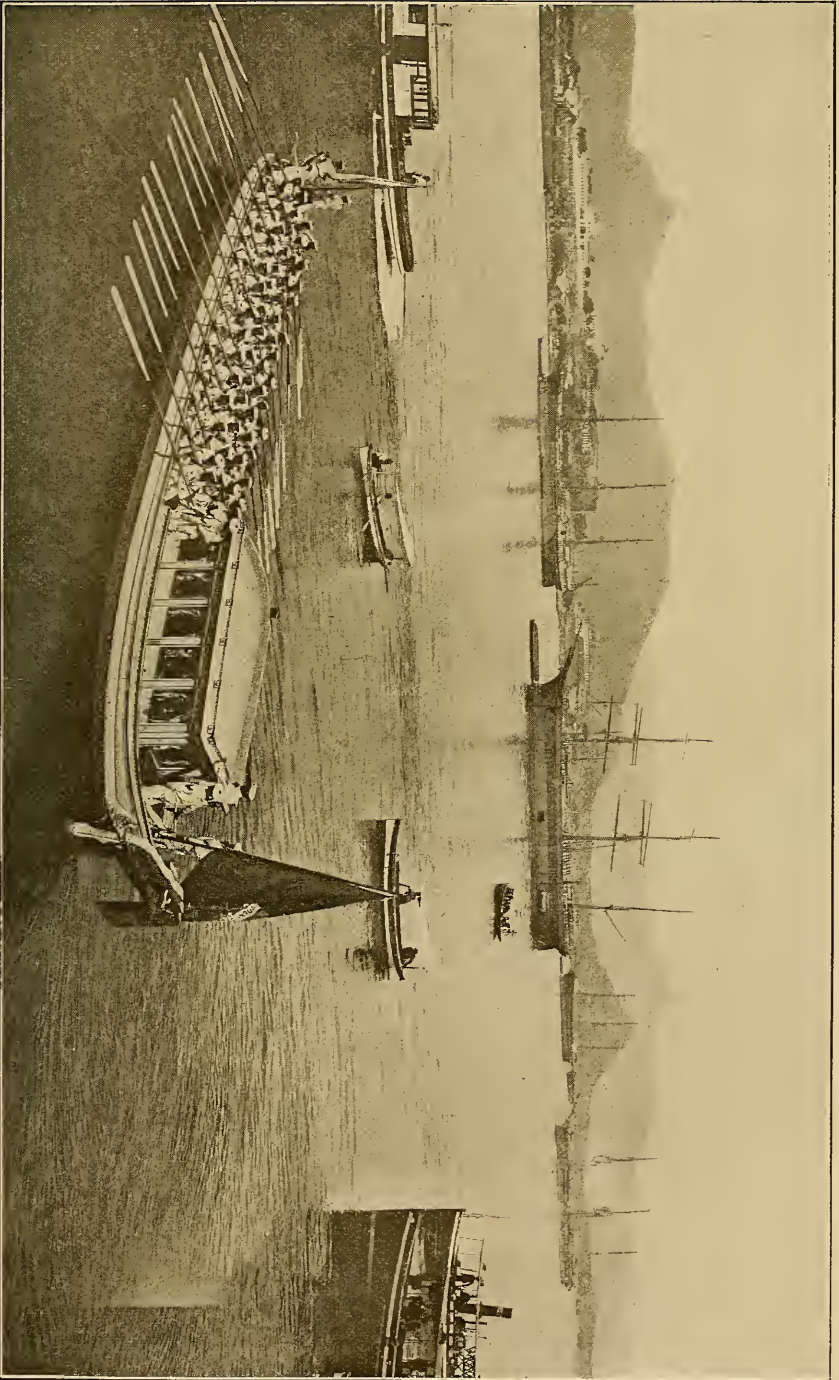
In disturbances of this nature, a President was apt to be not only the constitutional, but also the actual commander in chief of the army of his country. Experience on the field was an essential factor for success in the executive chair. A far-off reflection of the glories of Crecy might have been the ambition of many of these leaders, if the strong love for constitutional republicanism had not held them and the people in check.



FACSIMILE OF MEDAL STRUCK IN COMMEMORATION OF THE MEETING BETWEEN PRESIDENT ROCA, OF ARGENTINA, AND PRESIDENT ERRAZURIZ, OF CHILE, IN MAGELLAN STRAIT.

Meetings of American Presidents, therefore, have in the great majority of cases taken place as a matter of neighborliness and to strengthen the ties of friendship which must, as time passes, draw closer to each other the Republics of the New World. Their purpose

has been altogether one of peace. A notable instance of such a conference is shown by the meeting held at Corinto, on August 21, 1904, when the Presidents of Nicaragua, Honduras, and Salvador and a special delegate from the President of Guatemala assembled with the express intention of fostering by all honorable means the peace of Central America. The four Governments thus represented manifested a decided moral resolve to harmonize the ambitions of each for the good of all. Steps like this lead to beneficial consequences, and undoubtedly the sympathetic expression of regard between these neighbors made easier the brilliant Peace Conference held by the five Republics of Central America under Secretary Roor's guidance in the closing months of 1907.



THE ROYAL BARGE OF DOM JOÃO VI,  
In which President Roca, of Argentina, disembarked at Rio de Janeiro on his visit to the President of Brazil, Dr. Manuel Ferraz de Campos Salles, in August, 1900.

Central America probably leads in the number of cases when Presidents have grasped one another by the hand and discussed amongst themselves, by oral communication, affairs and policies they were elected to guard. It is not a long journey from one capital to another, and between contiguous seaports the distance is so short that informal meetings are easy of accomplishment. The President of Salvador and the President of Guatemala have more than once exchanged personal greetings. In fact, Gen. RUFINO BARRIOS, while



PRESIDENT ROCA, OF ARGENTINA, AND PRESIDENT CAMPOS SALES, OF BRAZIL, SEATED IN THE GARDENS OF THE PALACE IN RIO DE JANEIRO.

Chief Executive of Guatemala, was an attentive host, for the Presidents of Costa Rica and of Honduras, during two administrations, visited him. The Presidents of Costa Rica and of Nicaragua once met on the frontiers of the Republics, and so rapidly are the means of communication being extended in this century that undoubtedly many similar meetings will be arranged in the future for the benefit of this Central American confraternity.

With the growing demand for mutual understanding and the absence of all that danger which has so frequently attended the





PRESIDENT CAMPOS SALLES, OF BRAZIL, AND PRESIDENT ROCA, OF ARGENTINA,  
Boarding the cruiser *Riachuelo* on the former's departure from Buenos Aires, November 1, 1900.

visits of European rulers outside the confines of their own nations, these international visits are becoming more and more frequent. Sometimes they are of an informal nature, the President traveling in his private capacity, and being welcomed as a foreign guest simply. Some years ago President ZALDIVAR, of Salvador, came to the United



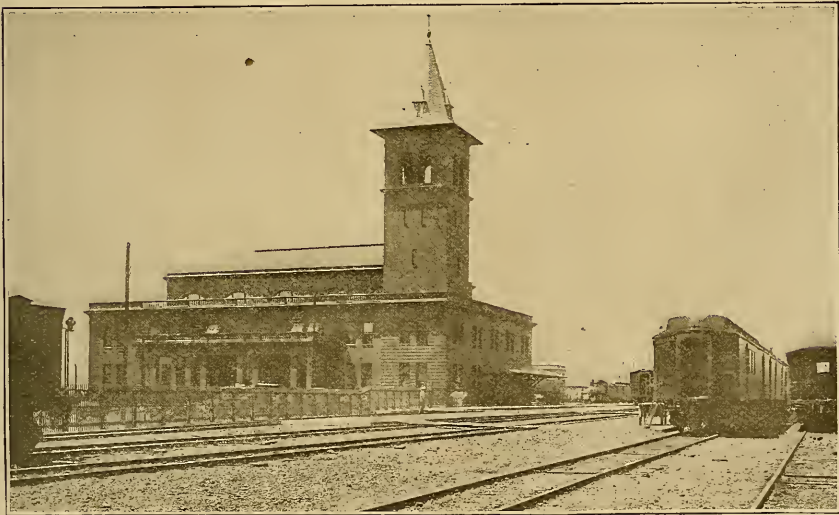
PRESIDENT ROOSEVELT REPLYING TO PRESIDENT AMADOR'S WELCOME AT PANAMA  
IN NOVEMBER, 1906.

(Photo by Underwood & Underwood. Copyright 1906.)

States and was received as befitted his position. President IGLESIAS, of Costa Rica, just before his brother entered the Naval Academy at Annapolis, traveled incognito through the United States and was entertained by President MCKINLEY in Washington. He has always looked back upon that event with a kindly memory. Many years

before that, however, Gen. RUFINO BARRIOS, while President of Guatemala, visited the United States, and so cordial was his reception here that his Government made this event the subject of a special communication to the Government of the United States.

A President of the United States has also been a traveler into a foreign land, although it was at the time a favorite subject of argument whether he stepped on foreign soil. In November, 1906, President ROOSEVELT made his trip of inspection to Panama. He was formally received by President AMADOR, by officials of the Government, and informally he met the President of Panama on several occasions subsequently.

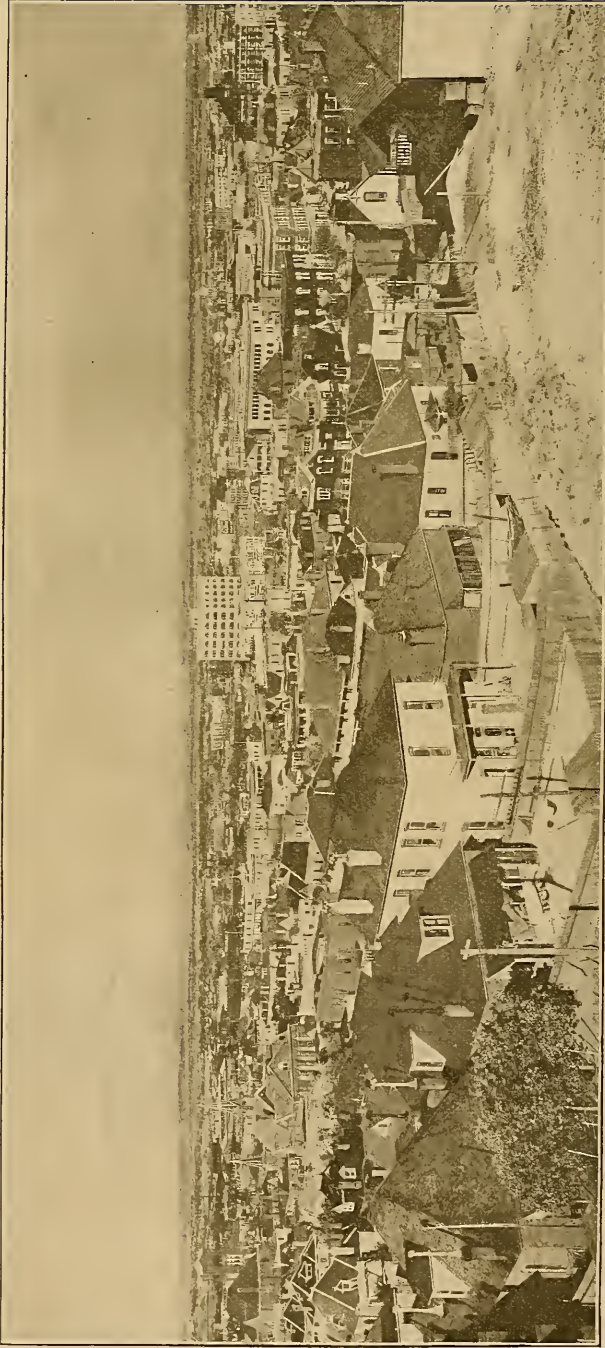


THE UNION DEPOT IN EL PASO.

El Paso is the terminus of a great system of railways, converging here from the north, east, and west, to receive and distribute traffic to and from Mexico.

What might be called a return visit of Presidents was made shortly after this by President AMADOR, of Panama, who came to the United States in November, 1907. He was not in good health, however, and could not receive the attention which would otherwise have been given him. Whatever meeting took place between him and President ROOSEVELT was of the simplest possible nature.

These occasions have not lacked in ceremony, although in most cases it has been the individual traveling in a quasi private capacity rather than the representative of a nation who was the recipient of the honors bestowed by a nation upon a distinguished guest. Although the personality of a President has always been a factor in his reception, the ceremony has been doubly impressive when he has been

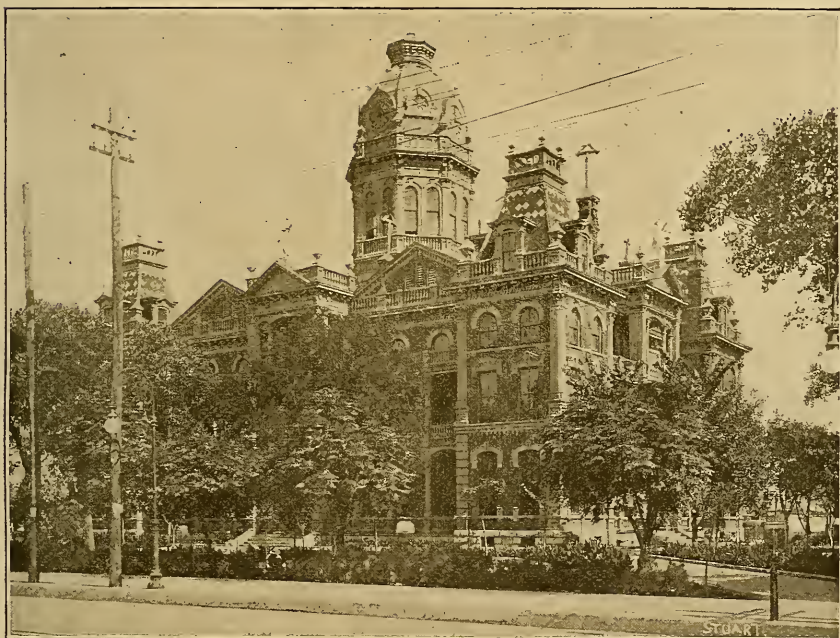


BIRD'S-EYE VIEW OF EL PASO.

The city was established in 1827, although there had been a pass across the Rio Grande here for generations before. It lies at an elevation of 3,750 feet, and has a population of 40,000. El Paso is a busy commercial center, but is also favorably known for its dry and healthful climate.

formally and by premeditation invited to visit a foreign country and a different people from his own. Such visits have been rare, even in America, and when they occur are of more than passing interest. Especially in Latin America, too, where the people take delight in ceremony and where their artistic instinct appreciates the value of the event, an occasion of this kind becomes a wonderful agent in increasing friendship and mutual understanding.

It is pleasant, therefore, to record two brilliant instances of the meeting of two great Presidents of American Republics, arranged as an affair of state and carried out with all the pageantry for which



THE COURT-HOUSE IN EL PASO.

El Paso is the capital of one of the largest counties in the United States, and has constructed public buildings on a generous scale.

the scenes were so well fitted. Reference is made to the visit paid to the President of Brazil by the President of the Argentine Republic in August, 1899, and to the return visit paid to the President of the Argentine Republic by the President of Brazil in October, 1900.

Gen. JULIO A. ROCA was in his second term as President of the Argentine Republic. He had served his country long and faithfully in many positions of trust, and was recognized in Europe, where he had traveled extensively, as one of the most capable men of his generation. Dr. CAMPOS SALLES had assumed the presidency of Brazil in 1898. His early life has been passed under the empire,

but the spirit of the age had fired his republicanism, and, despite all the traditions of an hereditary aristocracy, he had devoted his genius and his energy to the establishment and perpetuation of the new Republic.

The Argentine Republic and Brazil have long been on friendly footing, but, separated as their capitals are, by 1,000 miles of ocean, or by an equal number of miles of almost untraveled forest, they have not always been able to find opportunity to meet in intimate friendship. For this reason, and because the times seemed favorable for expressions of personal and national regard, these visits were arranged between the two nations. It was the first time in the his-



EL PASO CHAMBER OF COMMERCE.

tory of South America that an official visit was paid by one President of a republic to another. A squadron of the navy escorted President ROCA to Rio de Janeiro, where the Brazilians were lavish in their hospitality. The city was *en fête* for days, and the enthusiasm of the people was the best evidence of the success of the hitherto untried event. The Argentine Republic, not to be outdone in a display of hospitality and friendship, made even more elaborate preparations for the return visit of President CAMPOS SALLES the following year. Buenos Aires was decorated in all the perfection of which that beautiful city is capable. The people demonstrated that their friendship and hospitality was as sincere and spontaneous

as that of their neighbors, and the impressions of good will left on each other, however much it may be founded on sentiment, have undoubtedly carried far-reaching consequences in the hearts of the citizens of these two Republics.

Visits of courtesy of an informal nature are becoming more and more frequent as good-fellowship spreads from nation to nation. An instance well in point is seen in the proposed call at Rio de Janeiro, Brazil, of President MONTT of Chile who will pay his respects to the President of Brazil when he returns from Europe early in the coming year.



Meetings on the boundary between nations are of a somewhat different character and can not, from the very nature of the locality, be surrounded with the elaborateness of ceremony attainable in a nation's capital. They have a world-wide significance, however, since they show that presidents can shake hands across the border and that what they like to do in brotherly affection the neighboring people will do also. Another good result of such a meeting is the direct benefit upon the people of the region through which a president travels, for it brings him into touch with many persons and conditions he might not see otherwise, and carries evidence to all alike that he is their executive official as well as that of the residents of the capital of the nation.

Consequences of great benefit, for instance, followed the meeting, in 1899, between President *ROCA*, of the Argentine Republic, and President *ERRÁZURIZ*, of Chile, in the Strait of Magellan. They discussed practical affairs, the administration of their respective offices, and the mutual relation of their governments to the people's welfare, but more than that the visit furnished an object lesson to each President of the needs and requirements of the growing territory through which he had to pass.



THE COUNTRY CLUB AT EL PASO.

The two Presidents will be entertained in this building a short distance from the center of the city.

The inhabitants of the South and southwestern United States never cease to be grateful for the presidential visit paid to them in 1901. New Orleans, although once the capital of a vast territory acquired by a President of the United States one hundred years before, had never seen a head of the nation until President *McKINLEY* came. This trip was continued, with equally lasting benefits, through Texas, New Mexico, Arizona, and California. It was in El Paso, Texas, that a meeting had been arranged between President *McKINLEY* and President *DIAZ*, of Mexico, but the poor health of the latter prevented him from making such a long journey away from his home, and in his stead he delegated several high officials of the Mexican Government to meet and greet President *McKINLEY* on the international bridge across the Rio Grande connecting the two Republics.

This year, during the visit of President *TAFT* to the South and Southwest, the city of New Orleans hopes to be honored not only by the presence of the chief executive of this nation, but also by the



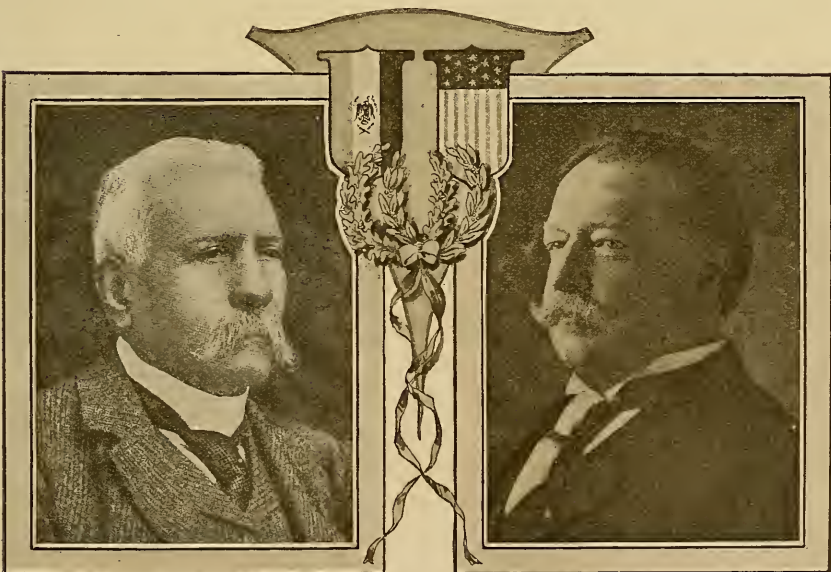
attendance, at the convention of the Lakes-to-the-Gulf Deep Waterway Association, of Presidents from one or more of the Central



THE INTERNATIONAL BRIDGE OVER THE RIO GRANDE, OR THE RIO BRAVO.

The Rio Grande forms the boundary between the Republic of Mexico and the United States. It is nearly three-fourths of a mile wide at this point, but during the dry season of the year much of the bridge passes over dry ground. At the northern end is the city of El Paso, in Texas; at the southern end is Ciudad Juarez, in Chihuahua. The boundary line is marked at the center of the bridge, and it is here that the two Presidents will meet for the first time.

American and Island Republics. Several of them may send their chief executives to meet President TAFT there.



On the international bridge at El Paso, Texas, however, the eyes of the whole world will be focused on October 16, 1909, for then it is planned to bring together President TAFT, of the United States of America, and President DIAZ, of the Republic of Mexico. The two contiguous countries are looking forward with eagerness to such an event. It means more to them than a mere handshake; it means the moral pledge that the two Republics are and will continue to be neighbors on a footing of human and territorial friendship. Tradition has hitherto confined the President of the United States within the borders of his country. Mexico, too, has encouraged the same custom in regard to her President. But at El Paso these two officials



THE CUSTOM-HOUSE, CIUDAD JUAREZ.

The entries through this custom-house into Mexico from the United States are among the heaviest into the Republic. Ciudad Juarez is the northern terminus of the Mexican Central Railway, the first line to be constructed from the City of Mexico to the frontier of Texas.

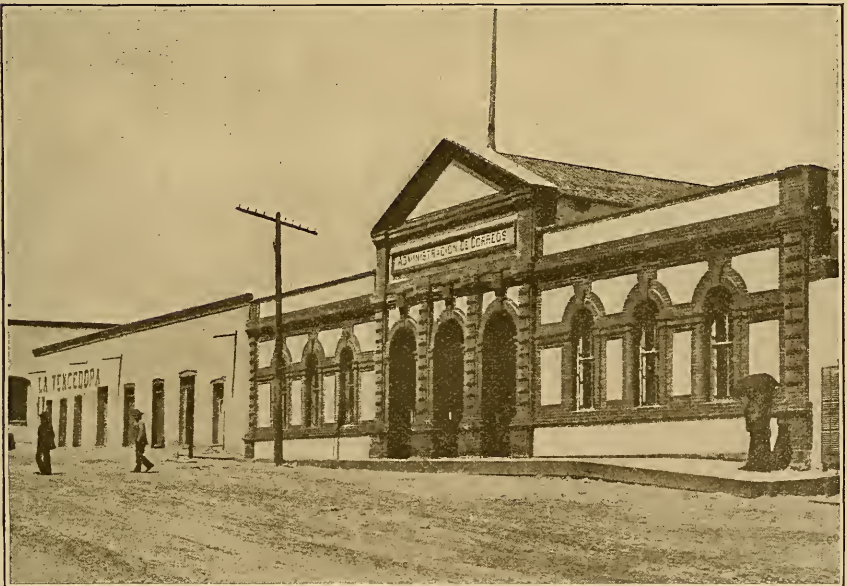
can meet with no great violation of tradition or law. The boundary across the bridge is well defined. Hands may be joined while each remains firm footed within his own nation's territory. Indeed, there will be more than simple taking of hands; the bridge will be converted into an international garden, and for the time being Mexico and the United States will be common ground. The President of each country may be received and *fêtéd* by the citizens of the other.

What is said there will of course be of importance to the listeners in both Republics, but the fact of the meeting, the simple citizenship of the event, without the necessity of military protection or display, will be an object lesson in history.



OLD CHURCH IN CIUDAD JUAREZ.

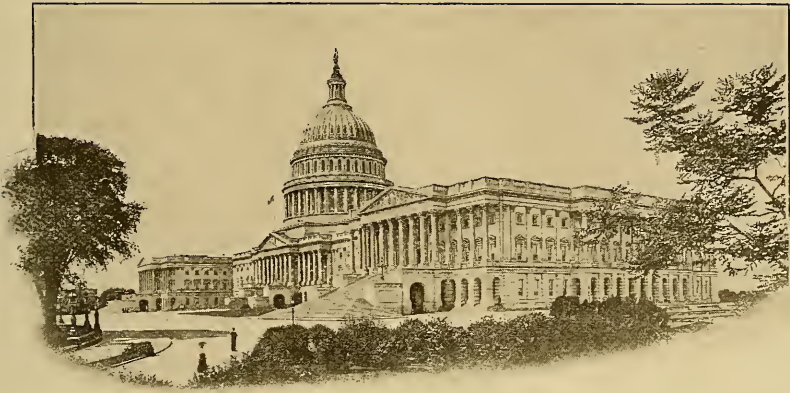
The city at the Mexican end of the International Bridge was formerly called Paso del Norte, conforming to original use of the settlement for passage across the river at this point. The city is quite old, and had many interesting structures in distinctive Mexican architecture.



THE POST-OFFICE IN CIUDAD JUAREZ.

Mr. ANDREW CARNEGIE, in his memorable speech at the laying of the corner stone for the new building of the International Bureau of the American Republics, drew three lessons to be given to the world concerning the true agents of peace. One was the compact between the Republics of Central America to submit to arbitration differences of any kind arising between them. Another was the beautiful symbol of Christ of the Andes between the Argentine Republic and Chile. A third was the unguarded boundary stretching for over 3,000 miles between the United States and Canada. He might have mentioned still a fourth; the equally unguarded boundary of nearly as many miles from the mouth of the Rio Grande in the Gulf of Mexico to the Gulf of California and the Pacific Ocean. The abandonment of the old frontier forts in Texas, the maintenance of scant garrisons over an area that half a century ago demanded thousands of troops for protection—all show that the United States and Mexico are daily practicing the lessons of peace. The two nations laugh at the thought of war, but they welcome, with a heartiness that is the truest echo of their sincerity, the thought that on their border may take place this latest and most felicitous meeting of Presidents.





## MEMORANDUM ON EFFECT OF NEW TARIFF " " "

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**T**HE special session of Congress called by President TAFT to consider a revision of the DINGLEY tariff law, act of July 24, 1897, met on March 4, 1909. A bill changing in a number of schedules the old law was reported in the House of Representatives by the Committee on Ways and Means, of which the Hon. SERENO E. PAYNE, of New York, is chairman. This bill passed the House on April 9, and went to the Senate for its approval. In the Senate it was considered first by the Committee on Finance, of which the Hon. NELSON W. ALDRICH, of Rhode Island, is chairman, and then by the Senate. The bill passed the Senate July 8, with 847 amendments. Some of these amendments were inconsequential, but a large number of them were material.

The conference committee selected from the two Chambers for the purpose of adjusting the differences in the bill as it passed the House and the Senate reported a compromise bill, which was accepted and became law by the President's signature on August 5, 1909.

### EFFECT OF THE ACT ON TRADE WITH LATIN AMERICA.

#### COFFEE, CACAO, AND RUBBER.

The new law makes no changes in these articles, which remain on the free list.

The bill as it passed the House laid a duty of 3 cents per pound on crude cacao. In the Senate an amendment restoring cacao to the

free list was passed, and this amendment was accepted by the conference committee and became law.

The bill, as introduced in the House, in the coffee schedule contained the proviso that if any country shall impose an export duty or other export tax or charge of any kind whatsoever, directly or indirectly, upon coffee exported to the United States, a duty equal to such export duty, tax, or charge shall be levied, collected, and paid. This proviso was omitted from the bill as it passed the House and did not again reappear. The effect of such a provision, had it become law, would have been most disastrous to the coffee trade, especially to the trade with Brazil.

Using the figures for the fiscal year 1906-7 as representing a normal year's trade, the importance of the importation into the United States of rubber, coffee, and cacao will be noted:

Article.	Pounds.	Value.
India rubber, crude.....	76,963,888	\$58,919,981
Coffee.....	985,321,473	78,231,902
Cacao, crude.....	92,249,819	13,376,562

Of rubber, South America furnished 55 per cent (42,323,713 pounds) and Brazil alone 52 per cent (40,286,751 pounds). Other Latin-American countries contributed as follows:

Mexico, 7,175,097 pounds; Colombia, 738,208 pounds; Ecuador, 941,274 pounds; Peru, 165,346 pounds; Venezuela, 190,368 pounds; Nicaragua, 661,327 pounds; Panama, 212,003 pounds; and other Central American States less amounts. All together, Latin America furnished 50,668,158 pounds, or nearly 66 per cent of the total india-rubber importation into the United States. In addition, it (Venezuela) furnished a small quantity of balata, gutta-percha (Colombia and Ecuador), and over 1,000,000 pounds of the guayule shrub (Mexico).

Of coffee, South America furnished 90 per cent (883,835,068 pounds) and Brazil alone 79 per cent (778,609,591 pounds). Other Latin-American countries exported to the United States as follows: Costa Rica, 24,090,169 pounds; Guatemala, 27,732,521 pounds; Salvador, 11,213,571 pounds; Mexico, 14,726,450 pounds; Colombia, 43,398,453 pounds; Venezuela, 59,994,303 pounds; and Honduras, Nicaragua, Cuba, Haiti, Dominican Republic, Ecuador, and Peru lesser amounts.

Taken all together, Latin America furnished 98 per cent (966,665 pounds) of the total coffee importation into the United States.

In cacao, South America (excluding the Guianas) exported to the United States 32,200,592 pounds, or 35 per cent of the whole importation into this country. Brazil, with 19,945,743 pounds, was



HONORABLE NELSON W. ALDRICH,  
Chairman of the Finance Committee of the United States Senate.

the second country in rank, following the British West Indies with a little over 3,000,000 pounds more. The Dominican Republic was fourth, with 9,902,943 pounds—about 540,000 pounds less than Portugal—and Ecuador fifth, with 8,280,950 pounds. Cuba shipped 3,710,383 pounds; Haiti, 2,301,918 pounds; Venezuela, 3,788,123 pounds; and other Latin-American countries smaller amounts.

As a whole, Latin America exported to the United States 48,557,256 pounds of crude cacao, or 52 per cent of the whole of the United States imports.

## HIDES.

The financial panic beginning in October, 1907, produced an abnormal condition in the trade of the United States, so that any deduction arrived at from a comparison of the more recent statistics is more or less misleading. This is particularly true as to the figures representing values in hide imports.

For the calendar years 1906, 1907, and 1908 the imports of "Hides of cattle"—i. e., the heavier hides of the bovine species upon which the 15 per cent duty was laid—were as follows:

	Pounds.	Value.
1906 .....	144,040,983	\$21,149,829
1907 .....	122,932,034	18,120,638
1908 .....	137,922,575	16,318,195

For the fiscal years 1905-6, 1906-7, and 1907-8:

	Pounds.	Value.
1905-6 .....	156,155,300	\$21,862,060
1906-7 .....	134,671,020	20,649,258
1907-8 .....	98,353,249	12,044,435

Taking the fiscal year 1905-6, in which the trade was normal, the origin of the imports of hides of cattle was:

	Pounds.	Value.
Europe .....	25,366,484	\$3,519,883
North America .....	41,796,004	4,741,513
South America .....	49,697,269	9,574,598
Asia .....	16,409,285	2,582,139
Oceania .....	418,233	58,394
Africa .....	983,745	178,231



## LATIN-AMERICAN COUNTRIES.

	Pounds.	Value.
Costa Rica .....	305,578	\$51,735
Guatemala .....	77,825	14,048
Honduras .....	388,920	45,617
Nicaragua .....	745,892	125,006
Panama .....	822,023	123,199
Salvador .....	68,800	10,485
Mexico .....	14,709,027	1,779,265
Cuba .....	3,340,173	346,615
Haiti .....	12,493	1,664
Dominican Republic .....	141,524	16,075
Argentine Republic .....	29,743,410	5,818,820
Brazil .....	1,460,742	284,999
Chile .....	6,874	1,068
Colombia .....	3,778,859	643,424
Ecuador .....	2,298,253	385,332
Peru .....	9,267	1,569
Uruguay .....	7,894,544	1,548,022
Venezuela .....	4,495,117	891,346

Nondutiable hides, classified as "Hides and skins, other than fur skins," were imported for the same year to the amount of 135,111,199 pounds, valued at \$30,841,987.

Of these the importation from Europe alone was 98,640,447 pounds, or 73 per cent in quantity, and \$23,549,037, or 76 per cent in value.

From Latin America the figures are 7,314,177 pounds, or 5.4 per cent in quantity, and \$1,683,040, or 5.4 per cent in value.

On the contrary, in dutiable hides—i. e., "Hides of cattle"—Latin America furnished 52 per cent in quantity—70,303,524 out of 134,671,020 pounds—and 58 per cent in value—\$12,088,297 out of \$20,649,258 in value of the total importation of the United States.

From these figures it will be seen that Latin America, and in particular the Argentine Republic, Mexico, Uruguay, Venezuela, Colombia, Ecuador, Cuba, and Brazil has furnished the great bulk, both in quantity and in value of dutiable hides, while the imports of free hides from these countries has been very small.

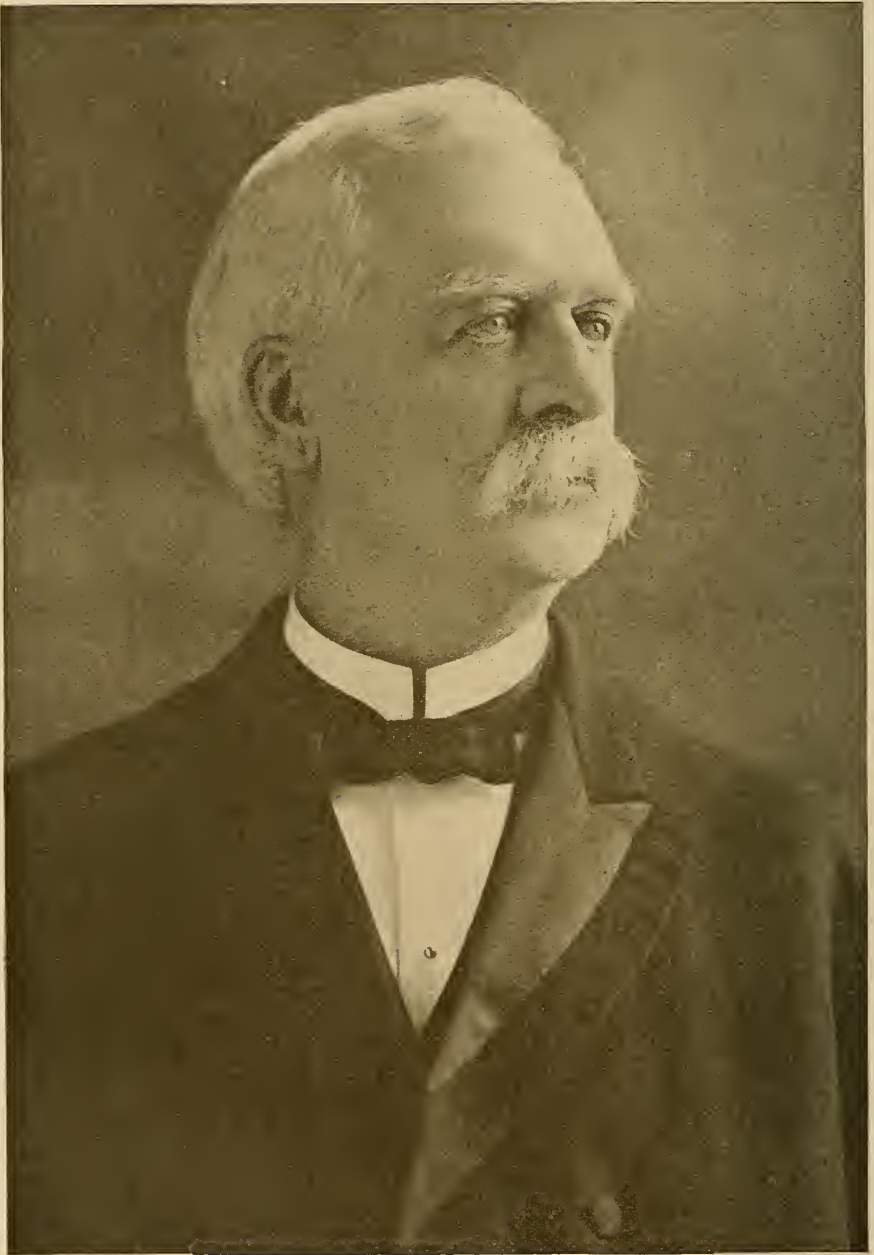
It will also be noticed that in the dutiable hides those from South America are the highest priced and the most valuable.

The new law (act of August 5, 1909), which abolishes the 15 per cent ad valorem duty on hides of cattle of the Dingley law (act of July 24, 1897), will necessarily have a greater effect on the hide trade with Latin America than with the rest of the world. It will undoubtedly stimulate the export of the heavier hides to the United States from these countries.

## TOBACCO.

The importation of tobacco into the United States consists of first—

*Leaf, suitable for cigar wrappers.*—Of this class of tobacco nearly all of it is Sumatra tobacco imported from the Netherlands. Out of



Photograph by Harris-Ewing.

HONORABLE SERENO E. PAYNE,

Chairman of the Ways and Means Committee of the House of Representatives, author of the Payne  
Tariff Bill.

a total importation of 7,576,325 pounds in 1906-7, and 5,943,714 in 1907-8, the Netherlands furnished 7,078,655 and 5,817,733 pounds, respectively. Cuba furnished only 38,274 and 42,653 pounds for the two years.

*Leaf, all other.*—This is for the most part cigar filler and Turkish smoking and cigarette tobacco, and the great bulk comes from Cuba, 20,335,769 out of 31,963,996 pounds in 1906-7, and 17,929,086 out of 26,112,329 pounds in 1907-8. There is a small trade with Mexico amounting to 255,410 and 269,705 pounds for the two years.

*Cigars, cigarettes, and cheroots.*—Practically the whole importation is from Cuba, although a few cigarettes come from Turkey, Germany, and England. The trade with Cuba in 1906-7 was 740,565 pounds, valued at \$3,889,520, out of a total of 775,078 pounds, valued at \$3,995,564, and for 1907-8, 734,357 pounds, valued at \$4,163,269, out of a total of 758,068 pounds, valued at \$4,245,451.

The only tobacco import from the Philippine Islands, with the exception of less than \$1,000 in value of cigar wrappers for five years, has been a small trade in cigars—\$6,508 in 1903-4, \$2,512 in 1904-5, \$4,149 in 1905-6, \$3,824 in 1906-7, and \$1,559 in 1907-8.

The duty on cigars, cigarettes, and cheroots under the old law was \$4.50 per pound and 25 per cent ad valorem. Cuba enjoyed a 20 per cent deduction from the rates under the treaty of December 27, 1903, and imports from the Philippine Islands under the act of March 8, 1902, paid 75 per cent of the regular duties. The effect of the treaty and the last-mentioned act was to put Cuba and the Philippines nearly on a parity so far as exports of cigars to the United States is concerned.

By the new law the rates on cigars remain unchanged, but by section 5 cigars from the Philippine Islands not in excess of 150,000,000 cigars a year are admitted free.

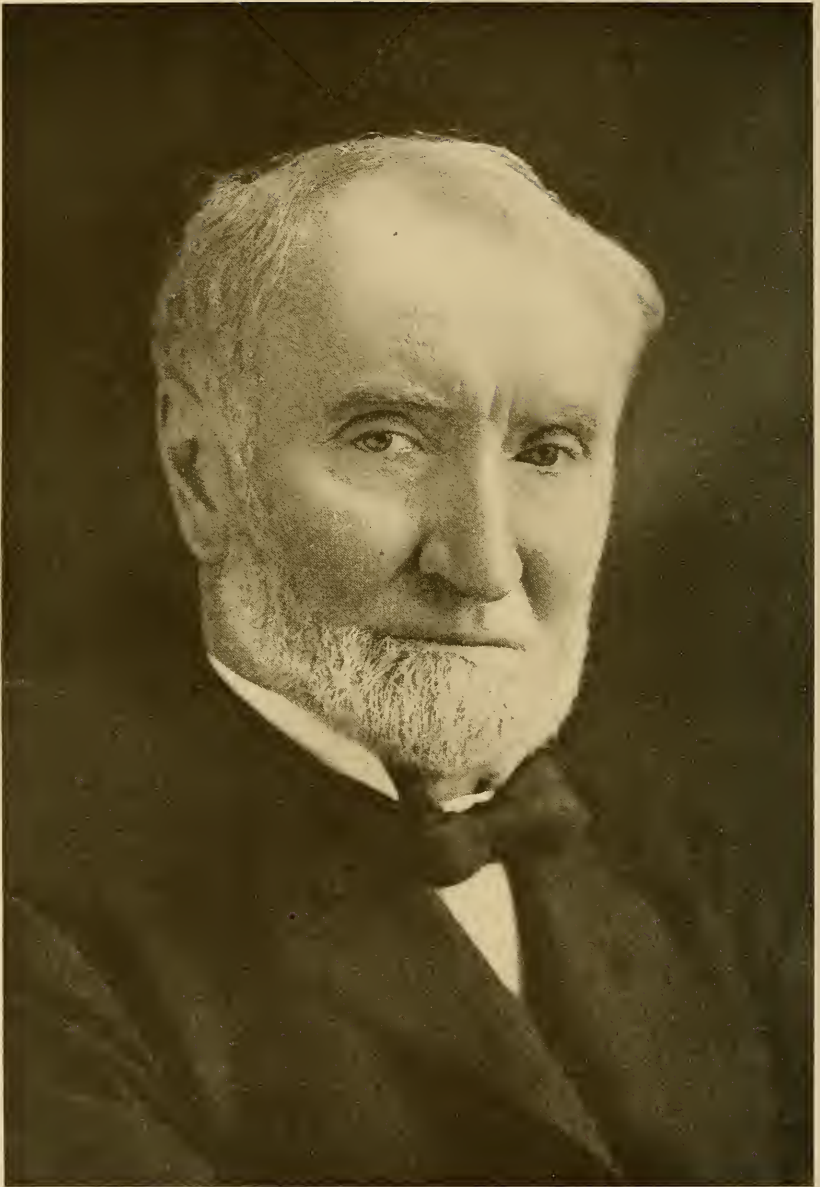
The effect of this provision will no doubt be in time to curtail to some extent the imports of Cuban cigars of the lower grades.

#### OTHER ARTICLES.

The duty on quebracho, of which the country imports 79,033,584 pounds (75,126,243 pounds from the Argentine Republic), remains unchanged at one-half cent per pound.

Crude asphaltum and bitumen also remains unchanged at \$1.50 per ton. The imports in 1906-7 were 111,015 tons, of which 33,988 tons were from Venezuela and 5,016 tons from Cuba. Practically all the remainder, except about 3,500 tons from Italy, came from the British island of Trinidad.

Chicle gum pays the same duty as under the old law, i. e., 10 cents per pound. Mexico's exports to the United States were about two



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HONORABLE JOSEPH G. CANNON,  
Speaker of the House of Representatives.

and three quarter million pounds, worth \$532,800. Thirty or forty thousand pounds come from Honduras and less quantities from the other Central American States.

The duty on iron ore was reduced from 40 cents per ton in the DINGLEY law to 15 cents per ton in the new law. In the bill as it passed the House iron ore was on the free list, but the rate of 15 cents was finally adopted as a compromise for the Senate amendment of 25 cents per ton.

The United States imported in 1906-7, 1,096,717 tons, of which more than one half, 584,670 tons, came from Cuba and 4,150 tons from Colombia. In 1907-8 the importation was 958,378 tons, of which a little over two-thirds, 646,443 tons, came from Cuba. A reduction to a little over a third of the old rate should, and no doubt will, increase to a large extent the imports of iron ore from Cuba and should stimulate production in other of the Latin-American countries.

Copper ore, matte, and regulus, free under both the old law and the new, was imported into the United States in 1906-7 to the amount of 56,732,916 pounds, of which 35,056,453 pounds were from Mexico, 2,887,064 pounds from Cuba, 5,261,616 pounds from Chile, 310,425 pounds from Peru, and small quantities from Central America, Haiti, and Dominican Republic.

The duty on timber—hewn, sided, or squared—was reduced from 1 cent per cubic foot to one-half this rate. At present practically all the imports are from Canada, but the reduced duty should stimulate a trade from Latin-American countries.

Cedar, mahogany, lignum-vitæ, rosewood, and other woods of this character remain free, as they were under the old law. The United States imported of mahogany 51,899,000 feet in 1906-7. Of this, 5,794,000 feet were from Central America, 14,382,000 feet from Mexico, 3,254,000 feet from Cuba, and 3,175,000 feet from Colombia.

The rate on sugar remains the same, i. e., 95 cents per pound on sugar not above No. 16 Dutch standard. The United States importations of sugar in 1906-7 was 397,745,046 pounds of beet sugar, nearly all of which came from Germany, with lesser quantities from Belgium and Austria, and 3,986,510,021 pounds of cane sugar, of which 3,236,466,419 pounds came from Cuba, 73,591,126 pounds from Dominican Republic, 58,843,900 pounds from Brazil, and 35,200,180 pounds from Peru. There were small quantities from Venezuela and Haiti and over 3,000,000 pounds from Guatemala.

The rate on pineapples was increased from 7 cents per cubic foot in packages and \$7 per thousand in bulk to 8 cents and \$8, respectively. The great volume of imported pineapples is from Cuba. For the year ending June 30, 1908, the imports from the island were valued at \$894,581 for fruit in packages and \$200 for fruit in bulk.



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HONORABLE CHAMP CLARK,  
Minority Leader of the House of Representatives.

The imports from all other countries were valued at \$3,093 for fruit in packages and \$39,666 for fruit in bulk. The increase in rate should not seriously affect the Cuban trade.

Raw cotton remains on the free list. Of this article the United States imported in 1906-7, 4,088,699 pounds from Peru, and small quantities from Colombia, Chile, and Venezuela.

In wools the duties remain unchanged, 11 cents per pound on class 1, 12 cents on class 2, and from 4 to 7 cents on class 3, unwashed. In class 1 the United States imported in 1906-7, 82,982,116 pounds, valued at \$21,378,304; 16,293,411 pounds came from the Argentine Republic, 4,933,508 pounds came from Uruguay, and small quantities from Brazil and Chile.

In class 2 the imports were 10,671,378 pounds, of which 1,365,843 pounds were from Peru, 213,500 pounds from the Argentine Republic, and 109,454 pounds from Chile.

In class 3 the imports were 110,194,051 pounds, most of which came from Russia, China, and Turkey. There were 3,406,423 pounds from the Argentine Republic, and small quantities from Brazil, Chile, and Colombia.



# MUNICIPAL ORGANIZATIONS OF THE CAPITALS OF LATIN AMERICA " " "

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## QUITO.

**F**ROM the sleep of centuries Quito awakes—Quito, oldest of all the capitals of South America, and vying with Mexico as the most ancient city of all America, arouses from its old-world lethargy. Slowly by the Guayas, and through dense forests and stony paths around Chimborazo and over steep mountain passes, progress has come to the northern capital of the great Inca empire, set in the high Andes, 9,537 feet above the sea. In the days of HUAYNA-CAPAC, the greatest of all the Inca emperors, Quito was the principal capital of the empire, and here he lived in a splendor unsurpassed, it is said, in ancient or modern times. At his death he divided his empire in two parts, giving to ATAHUALPA the northern and to HUSCAR the southern half. War naturally followed between the two brothers, and while this war raged PIZARRO came upon the scene. With PIZARRO's help ATAHUALPA overthrew HUSCAR and was himself in turn overthrown by the Spaniard.

Every schoolboy who has read PRESCOTT knows of how the royal Inca bargained with his conqueror to fill the prison room with gold in exchange for freedom, of how the faithful Indians brought the treasure, of how this not satisfying the Spaniards they demanded more, and of how ATAHUALPA acceded to this demand and sent out word for more treasure to be brought. But this gold never came, for the news spread to Quito and over all the mountains that ATAHUALPA had been strangled by the treacherous Spaniards. The burden bearers, laden with gold and silver, were assembled in the Llanganati, and here the treasure was buried, where neither by persuasion, temptation, nor torture could any one of them be induced ever to betray its hiding place.

In those days Quito was connected with most of the Inca world by magnificent roads built through the mountains. These roads in later years have to a great extent been allowed to decay, for the white man's path lay not along and through the high Andes, but down and up from the sea. The Spaniards built Guayaquil, and Guayaquil is the port of Quito, and between the two lies the road which for





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QUITO, AS SEEN FROM THE HILLS.

The view as shown is on a line a little north of west.

nearly four hundred years has been the principal trade route of Ecuador. The road is about 320 miles long, and such a road it was, impossible except to a few hardy natives during half the year, the rainy season, and so bad for the other half as to deter all except the hardiest and most enthusiastic traveler. The southern end of the road—for Quito lies north of Guayaquil—passes through a tropical forest and is often hidden by rank-growing vegetation or obstructed by fallen trees. Emerging from the forest, the road is even worse; the steep ascents and descents, often full of water, mud, and tumbled

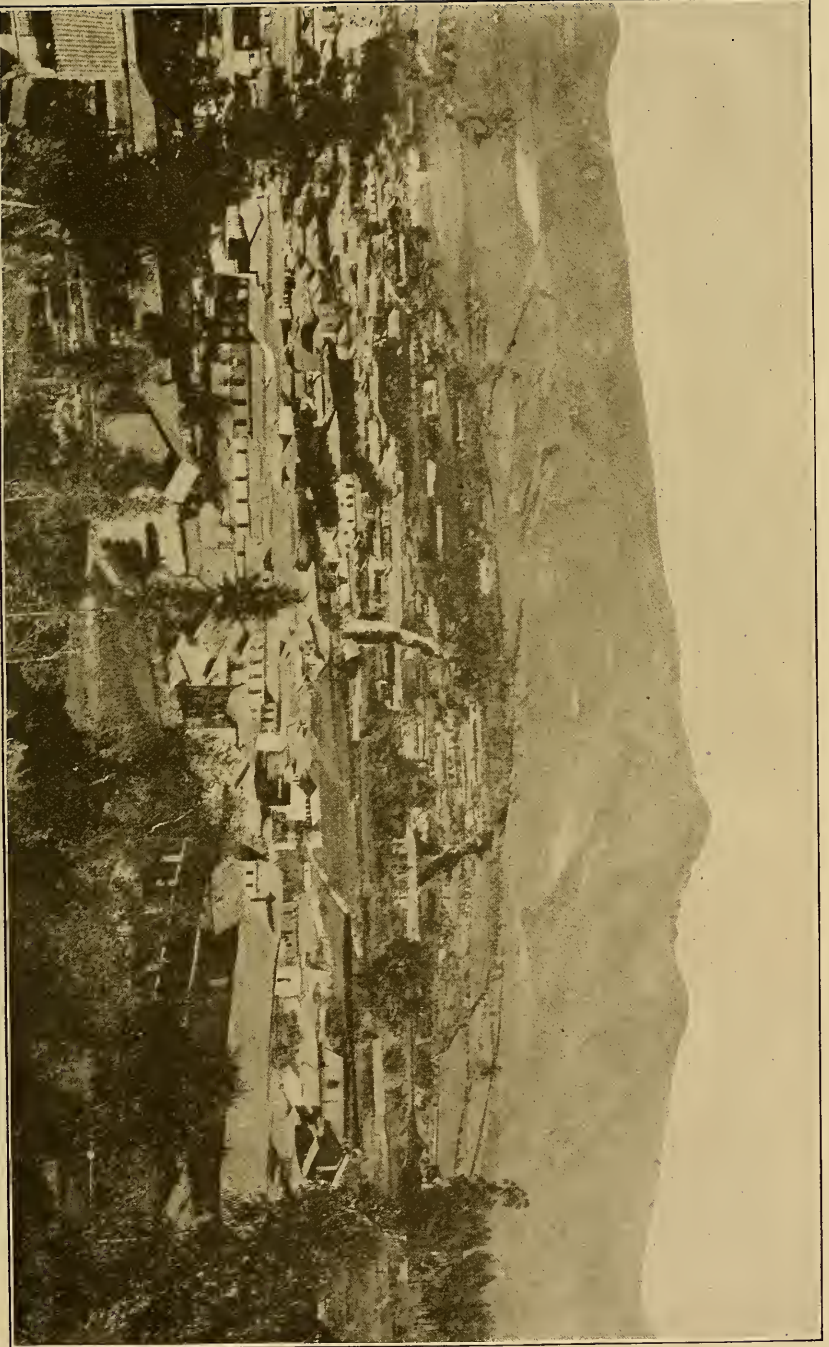


GOVERNMENT PALACE IN QUITO.

stones, with here and there bottomless quagmires, make it at times seem impossible to pass.

For many years the main route from Guayaquil has been first by steamboat, 60 miles up the Guayas River, and thence by the road about 250 miles through the forest and mountains to Quito.

For fifty years the city has dreamed of a railroad up from the sea. About forty years ago a railroad was actually begun from Guayaquil to the interior; a track 17 miles long was built by English capitalists, who sought to imitate the railroad exploits of HENRY MEIGGS in Peru. But no train on this road ever carried a passenger or hauled a ton of



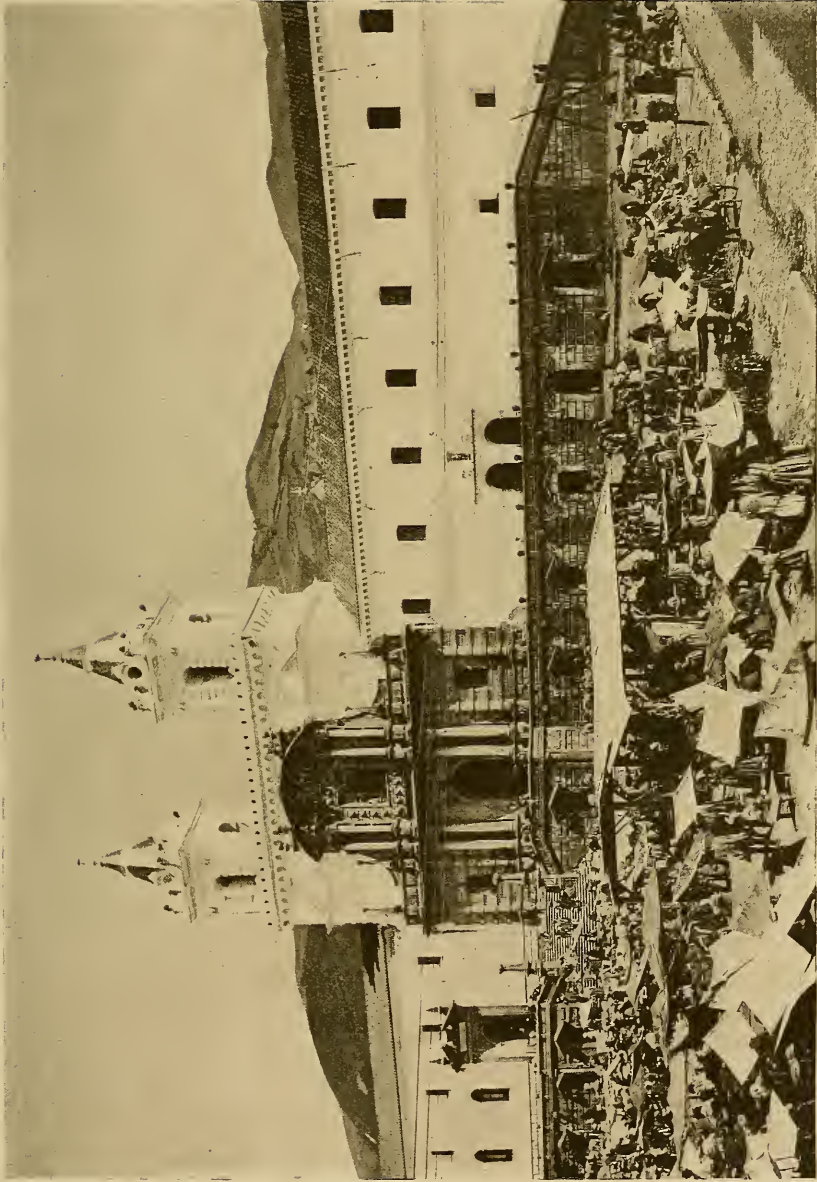
A PART OF QUITO, AS SEEN FROM A NEAR-BY HILL.

freight. It lies, two streaks of rust, lost in the jungle. The idea of the railroad from Guayaquil to Quito did not die with this, the first effort, for more than a year ago, on June 25, 1908, the first train from the port entered Quito. It was a season of great rejoicing, for the dream of fifty years had come true. But by no magic; it was slow and difficult work, extending over more than thirty years, the solving of the most vexatious engineering and labor problems complicated by financial conditions, that brought the road up from Guayaquil. The contract which finally secured the completion of the road was made with a group of United States financiers, represented by Mr. ARCHER HARMAN, on June 14, 1897. Under this contract the road has cost 46,000,000 *sucre*s (nearly \$23,000,000), of which the Government has issued bonds for about one-half and the stockholders have provided the other half.

Years before the road was completed the conditions of travel to Quito had improved. As the railroad crept up from the lowlands at each successive terminal, connections by wagon road was opened and maintained with Quito, so that the old conditions have for the last ten years been vastly improved.

The railroad begins at Duran, across the bay from Guayaquil, and follows the course of the Guayas northeast to Yaguachi; from here it turns to follow the general direction of the Chimbo River east to Alausi; from thence almost due north by Riobamba, Ambato, Latacunga, and Aloasi to Quito.

Before the coming of the railway Quito was an old-world Spanish-American city, which had been evolved and dwindled in the evolution from Huayna-Capac's city of over a third of a million people to the modern city of about 50,000. It lies in a saucer-shaped cup nearly 9,600 feet high at the foot of Mount Pichincha, towering over 6,000 feet higher. To the east and west it is hemmed in by the high mountains. There are roads leading from the city, one to the north and two to the south. These roads lead along the high plateau called the table-land of Quito. Immediately to the south of the city lies the small isolated mountain called Panecillo, rising some 700 or 800 feet above the main plaza. To the north ridges from the east and west ranges come down, shutting off the town. Thus, coming from either direction, one does not see Quito until it lies at his feet, from this distance a rather dreary and dead looking town, spread out over considerable area. The mountains are bare and the city, red tinted from the tiled roofs, resembles, as has been said, one of those spell-bound towns of the Arabian Nights. On entering the city this delusion is dispelled, for Quito unmistakably is not dead. The Quiteños appear to live upon the streets—at least the country people, the *chargas*, who come into the city in droves, are always to be seen. These men dash madly about on horseback like cowboys in a western



THE FRANCISCAN CONVENT IN QUITO.  
Said to be the largest monastery in the world. In the foreground is the open-air market.

mining town. The narrow streets are filled with Indians, men and women, soldiers, shopkeepers and their friends and customers chatting in front of the shops, laden horses, donkeys, and llamas.

The plan of the city is regular; streets cross at right angles running from east to west and north to south. But the streets themselves are sometimes difficult on account of the steep grades. Two deep ravines traverse from east to west, down which flow the melted snow from Pichincha's heights. The whole terrene is exceedingly uneven, as the slopes and spurs of the surrounding hills press down even to the center of the town. A walk in Quito is a continual ascent or descent. The streets, however, are well paved. The houses suggest the Moorish



GALLERY SURROUNDING PATIO, UNITED STATES LEGATION, QUITO.

style, with roofs projecting over the sidewalks. The better class are built of stone or burned brick but for the most part Quito is built of adobe or sun-baked brick.

The typical Quito residence does not properly face the street, at least not on the ground floor. This is leased to shopkeepers or occupied by servants, and opening to the street has no connection with the residence proper. The entrance to the latter is through an arched gateway leading into an interior *patio* surrounded by galleries and sometimes leading into a second *patio*, in which are the stables. The residence is on the second floor and faces around the principal *patio* with a balcony on the street side with glass doors from the residence.



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THE COMPAÑÍA CHURCH IN QUITO.

This is a fashionable church of the capital, and is under the jurisdiction of the Jesuits.

The interior furnishing of these houses is often most luxurious, surprisingly so when one considers the awful road over which prior to the coming of the railroad everything had to be brought up from the coast. Very few houses contain any heating arrangements and cooking is done by charcoal on open hearths.

Water is brought down from the mountains through aqueducts and is supplied to public fountains. The city is lighted by electricity and the installation of electric tramways is now being made.

Quito is just now at the beginning of a period of transformation. The railway makes possible what before was impossible. Improvements of all kinds, particularly in building and in water supply and



STREET IN QUITO.

This house is built on the spot where the declaration of independence was signed in 1809. The table on the front of the house bears the names of the signers.

sanitary measures, are being put into effect, so that it is quite probable that a traveler of 1908 will scarcely know the city in 1910.

In fact, visitors to the National Exposition which opened in August of this year will be surprised to find what improvement the city has made in the last five or six years.

By the census of May 1, 1906, Quito had a population of 50,841 inhabitants, of which 22,763 were males and 28,078 females. The excess of women is quite remarkable, amounting to 123.35 women to 100 men. Some other cities in which there is an excess of women are as follows: New York, 101 to 100; Philadelphia, 103 to 100; Boston 104 to 100; Baltimore, 109 to 100; Paris 111 to 100; Buenos





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SAN FRANCISCO CHURCH, QUITO, ECUADOR.

This stately edifice dates from the early colonial period, and is one of the oldest buildings and most prominent churches of the capital of the Republic.

Aires, 108 to 100. In Chicago there are 103 men to 100 women, and in Montevideo 118 men to 100 women. The extraordinary excess in the female population of Quito is unexplained by the census authorities, who give the birth statistics for the three years preceding the taking of the census as follows: 1903, births, male 978, female 831; 1904, male 942, female 923; 1905, male 983, female 896; total for three years, 2,903 males, 2,650 females.

Not counting minors under 18, there are 14,751 married, 12,651 single, and 4,051 widowed. There are 1,365 foreigners in Quito, of whom about one-half are Colombians and 21 are from the United States.

Of the population over 7 years of age, 31,800 can read and 10,373 can not.

Quito has three palaces, the National Palace, that of the archbishop, and the Palace of Justice. Other government buildings are the Municipal, the University, the Observatory, National Library, General Telegraph Office, Mejia, Providence, Sacred Heart, Good Shepherd, and Guardian Angel colleges, the normal institutes for boys and for girls, School of Arts and Trades, Conservatory of Music, Sucre Theater, President's residence, St. John's Hospital, insane asylum, and the homes for orphans and for foundlings.

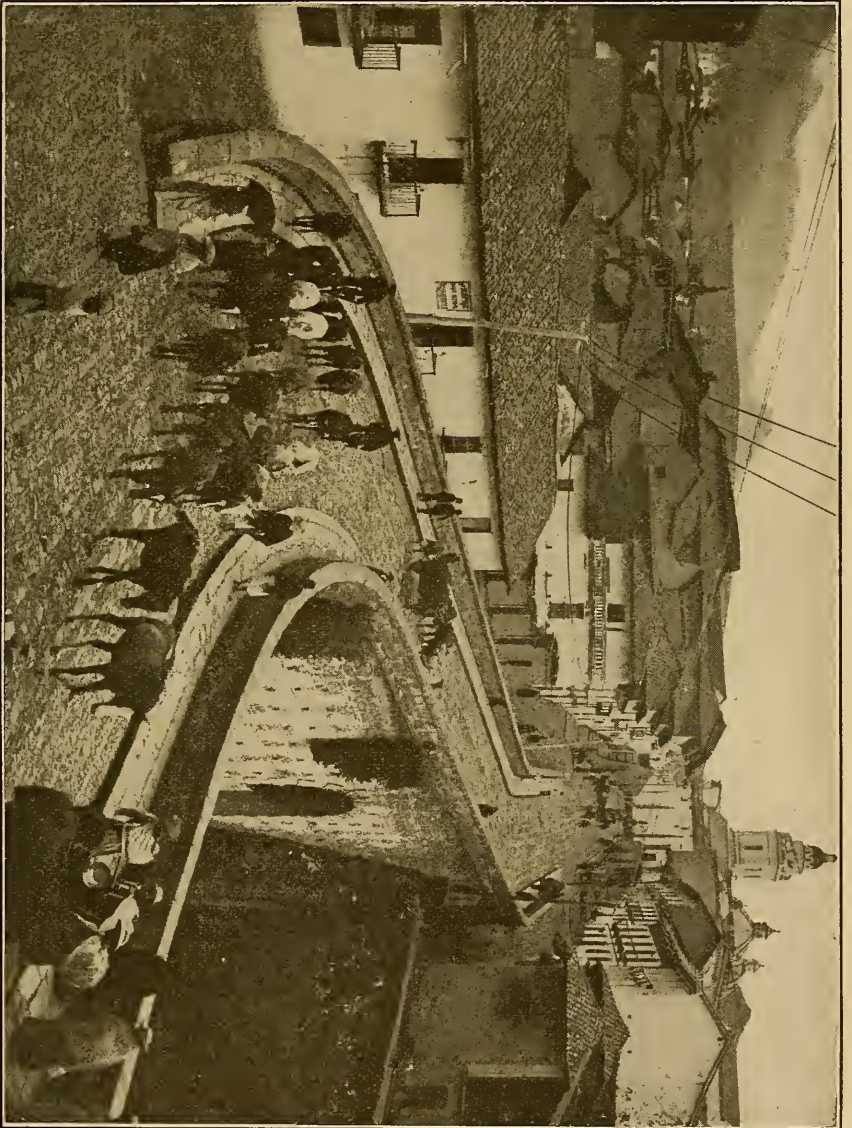
There are 6 monasteries, 7 convents, 2 seminaries, 7 parochial churches, 15 conventual churches, and a cathedral. The Franciscan monastery is said to be the largest in the world, and its building covers several acres. All together, the religious establishments cover nearly one-fourth of the city's area.

The larger manufacturing interests are represented by flour mills, 1 foundry, 1 ice factory, 2 sugar refineries, and 3 breweries.

Quito has a wonderful climate. The range of the thermometer is only about 50°, from 50° to 70° F. The weather is an almost perpetual Indian summer. Sometimes it rains quite hard, but not for long.

The white plague and other pulmonary diseases seem not able to exist in Quito. Sufferers even in the last stages of consumption have recovered with a few months' residence in the Ecuadorian capital.





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A STREET SCENE IN QUITO, ECUADOR.

The principal streets of the city present a most lively appearance, with hundreds of people and beasts of burden in constant motion. The city is traversed from west to east by two deep ravines (quebradas), through which rush the torrents of melted snow from the surrounding hills. These quebradas are mostly covered with vaults and arches, which form high ways from one section of the city to another. The territory over which the city extends is exceedingly uneven, and the slopes and spurs of the surrounding hills press down toward the main plaza from three different sides. The streets, nevertheless, are generally regular, intersecting at right angles, and the principal ones are paved.



# THE HARD WOODS OF THE AMERICAS<sup>a</sup> " " " "

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## QUEBRACHO.

**T**WO of the greatest industries in the world are railway building and the preparation of hides and skins into leather. For the former the sleepers on which the rails are laid are essential and costly factors; for the latter nothing can take the place of some vegetable extract which is the tanning substance of the trade. Sleepers can be made of glass and metal, but these do not give the satisfaction of those made of wood. The oak and the hemlock have for ages supplied tannin by which leather is cured; in fact, the very word *tann* implies by its derivation its relation to the oak, by which name the tree was called in old Breton language. Railway sleepers have been made from the oak, but the expense grows higher year by year. No wonder, therefore, that the earth is scoured for trees to furnish either the one or the other or both of the substances, and no wonder also that manufacturers and builders hailed with delight the announcement a few years ago of the availability for both purposes of the South American tree called "Quebracho."

Quebracho is a contraction of the colloquial Spanish and Portuguese term *quebra-hacha*, originally applied to many trees in Latin America. It means "ax breaker," and the character is implied in this meaning. The wood is hard, fine grained, and tough, and had been used by the natives for ages in their primitive construction work. Of recent years, however, quebracho is restricted in the arts and industries to a particular tree found only in South America, and even

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<sup>a</sup> Photos by Mr. Wm. M. Baldwin and Mr. A. Klipstein.

here only within broad limits of the drainage basin of the River Paraná. In Cuba there is a "quebracho," so-called locally, which is a member of the Copaiba family. In Chile a quebracho is rather of the Cassia family, and probably in other parts of Latin America the name is indiscriminately given to any hard wood that has tested the metal of the native's ax. No such indefinite use of the word, however, can be permitted to-day, because the tree of the South American Chaco has become so commercially important that it must be understood to signify only that one tree and nothing else.



THE EDGE OF "THE CHACO" IN ARGENTINA.

This is an outlying village celebrating the national holiday (May 25). From here the workmen skilled in woodcraft journey into the wilderness in search of quebracho.

The genuine quebracho tree is found in Brazil, Paraguay, and the Argentine Republic. There are two important varieties and a third has been distinguished, although it has no great significance botanically or value commercially. Locally and in the trade the names given are *Quebracho colorado* (red), and *Quebracho blanco* (white). *Quebracho colorado* has the scientific designation of *Loxopterygium lorentzii*, and belongs to the order of Anacardiaceae. This is the particular tree from which both the sleepers and the better quality of tanning extract are derived. The other, *Quebracho blanco*, is neither so straight nor so serviceable as the red variety, but is nevertheless of definite commercial value, as it furnishes some tanning extract

and the logs can be used for fence posts and axles. From it is taken also a drug extensively used for bronchial diseases; in fact, as a plant it was studied for this purpose long before its other advantages were exploited. The scientific name is *Aspidosperma quebracho*.

The Chaco of South America is the mysterious no-man's land of early explorers. Into this wilderness fled the native inhabitants, called there "Indians," with the same idea of them that was current in North America, and both fancy and experience peopled it with all manner of strange wild beasts. As the aborigines were driven farther inland by European settlement they were accompanied by the



A FONDA OR TAVERN IN "THE CHACO."

Frontier hotels of this character are favorite meeting places of timbermen, and from them gangs of workmen are sent into the quebracho forest for their season's labor.

imported horses and cattle of the Old World which had run away from captivity and reverted therefore to the habits of their primitive ancestors. The limits of this region were rather climatic and geologic than territorial. The characteristics of soil and vegetation determined its location quite as much as anything else. Thus, in the early history of the Argentine nation, above the Salado River was "El Chaco." This extended indefinitely northward up to and within Bolivia. It crossed the Paraná River, embracing even portions of Uruguay and Brazil, and was lost in the unknown area at one time dominated by the Jesuit missions. Fugitives escaped into the Chaco, explorers lost their lives there or returned with wonderful



A QUEBRACHO TREE IN "THE CHACO."

The quebracho tree usually stands by itself, easily discernible at a distance, both by the character of its bark and the peculiar formation of its branches.



IN THE DEPTHS OF "THE CHACO."

The heart of "The Chaco" is never the tangled jungle of tropical forests. Quebracho and other trees are more scattered, and the undergrowth, although at times close, like the mesquite thickets of Texas, is seldom impenetrable. Men on foot or horseback pass through it with no great difficulty.

tales of adventure. The Pilcomayo and Bermejo rivers, leading to the northwest, lured many a hardy traveler to attempt, unsuccessfully, a new route toward the Inca land of Peru and Bolivia. At one time it all belonged vaguely to the Argentine Republic. Later Bolivia relinquished her use of the name, and, under the agreement in which President HAYES (1878) acted as the arbitrator, that portion not definitely within Uruguay and Brazil was divided between Paraguay and the Argentine Republic. To-day there are two Chacos, one belonging to Paraguay and the other to the Argentine Republic. Their



THE BARK OF THE QUEBRACHO TREE.

The workman always tries the tree, if it is to be used for its tanning extract, by testing the thickness of the bark and sap wood. If the sap wood is too thick ( $1\frac{1}{4}$  inches or more), the tree is spared, because it involves too high a labor cost to cut down a tree having proportionately so small a trunk. As neither bark nor sap wood contain much tannin, and as these coverings are always removed before a log is shipped, it is cheaper to search for trees of greater yield.

limits are definitely fixed. In the Argentine Republic are the Gobernacion del Chaco, south of the Bermejo River, a national territory, north of which is the Territory of Formosa, whose northern boundary is the Pilcomayo River. North of the Pilcomayo is the Paraguayan Chaco, and the name covers only these two thinly inhabited areas. But "El Chaco" remained as romantic and unproductive as ever until the railroad came.

Railways must have sleepers on which to lay their rails. In some instances wooden ones are imported at great expense, or substitutes therefor are used if climatic conditions are favorable. As a rule,



however, it is preferred to take supplies from native timber whenever procurable. This was the case in the Argentine Republic when railway building away from the coast had begun, and no more fitting wood could be discovered than that recommended by the natives, both by the name and by the experience of those who had used it. The quebracho wood proved by far the most serviceable for sleepers on South American railways, and its reputation grew so steadily that to-day many miles of European rails are supported by sleepers brought from the River Plate. The railways helped also to industrialize this region, pushing their way close to the edge and occasion-



BIG QUEBRACHO LOGS GATHERED IN "THE CHACO."

It should be noticed that these logs have had the bark removed, and are serviceable either for tanning extract or for sleepers. If logs are felled close to a factory, every particle of the wood may be utilized for the extract.

ally into the Chaco; steamers and sailing vessels crept farther into the interior on the larger rivers, bringing manufactured goods from abroad in order to exchange them for cargoes of quebracho, until the mystery of the Chaco has now faded away before the march of civilization, while logging camps and sawmills are as busy there as they are in Wisconsin or Canada.

In one respect quebracho resembles rather mahogany than oak or pine. The trees do not grow in clumps or groves, but are dispersed through the forests and the less dense woods, singly or in groups seldom more than four or five to the acre. The tree itself is tall, about

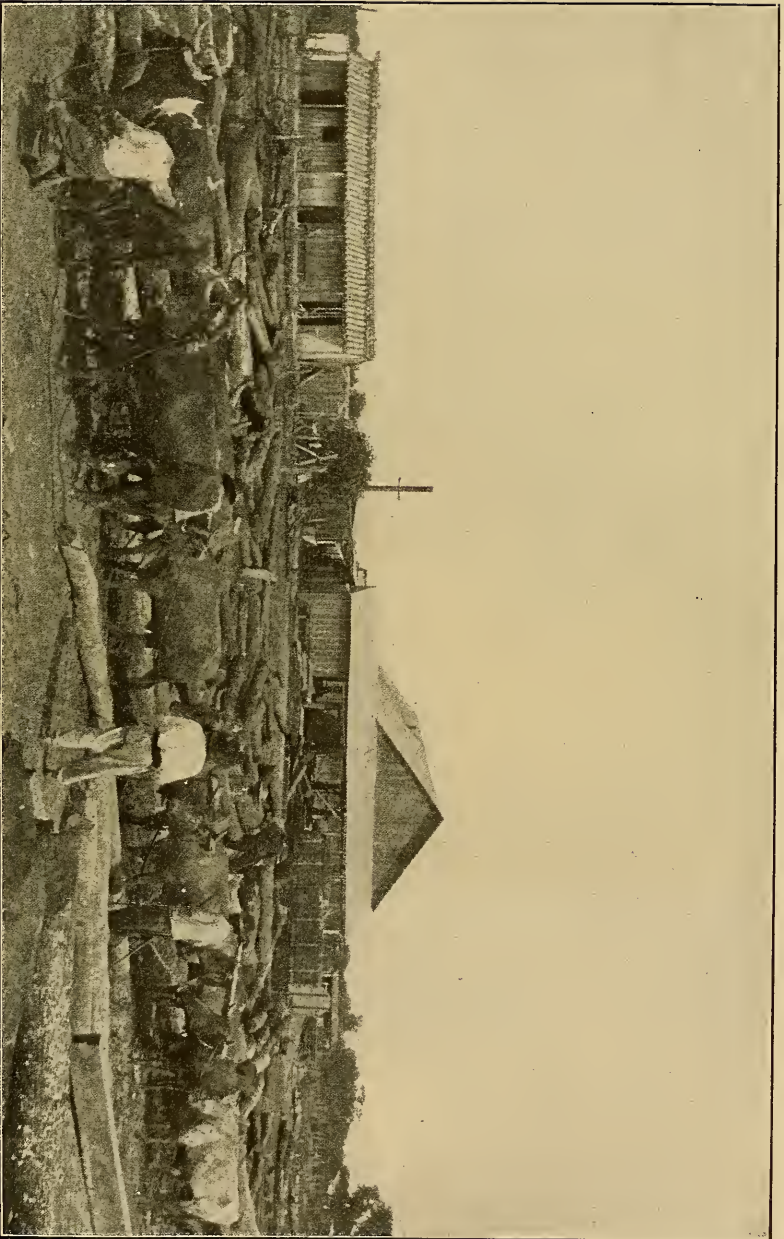
two or three feet in diameter, and is crowned by a rather thin, oval, or V-shaped, mass of branches and leaves. The white quebracho is somewhat smaller than the red, and begins to branch lower to the ground, so that it is not hard to distinguish them from each other. The leaves are oval, or lance shaped, smooth, somewhat shining and leathery; they do not fall completely in the winter, but cling to the branches in company with the fruit. The tree seems to thrive best on a sandy soil, where the atmospheric moisture is not very great, but where abundant water is provided for the roots, either by dews or sufficient rain. It is neither a mountain nor a river growth, but lives



A SAWMILL BETWEEN "THE CHACO" AND CIVILIZATION.

Mills are frequently permanent, substantial plants, to which the rough timber is hauled. Occasionally, however, it is advisable to carry small mills close to the forest for more rapid handling of the raw material.

best in the subtropical stretches between water courses. Although the age of the tree has been given as measured by hundreds of years, it is well enough established that at ten years from planting the first small shrubs are big enough to use for posts. The future promises, therefore, an opportunity for the actual cultivation of quebracho, because, although savage inroads have been made into the supposedly inexhaustible forests of the Chaco, it is not too late to restrict the cutting of the tree, or even to adopt modern forestry methods of planting and conservation for the supply of coming generations. In fact, the Argentine Republic has already passed suitable laws in this direction,



AN ASSEMBLING POINT FOR QUEBRACHO LOGS.

Newly felled logs of quebracho are hauled to the nearest station or mill by oxen in the primitive method best understood by the natives. These stations are located in the center of timber tracts, and from them radiate roads or small railway lines into the forest.

and it is more than probable that under the wise administration of that Government there will be developed an arboricultural industry to proceed hand in hand with the preparation of quebracho posts for fences and construction work, sleepers for railways, and of tanning extract, the three industries for which this unique tree is at present utilized.

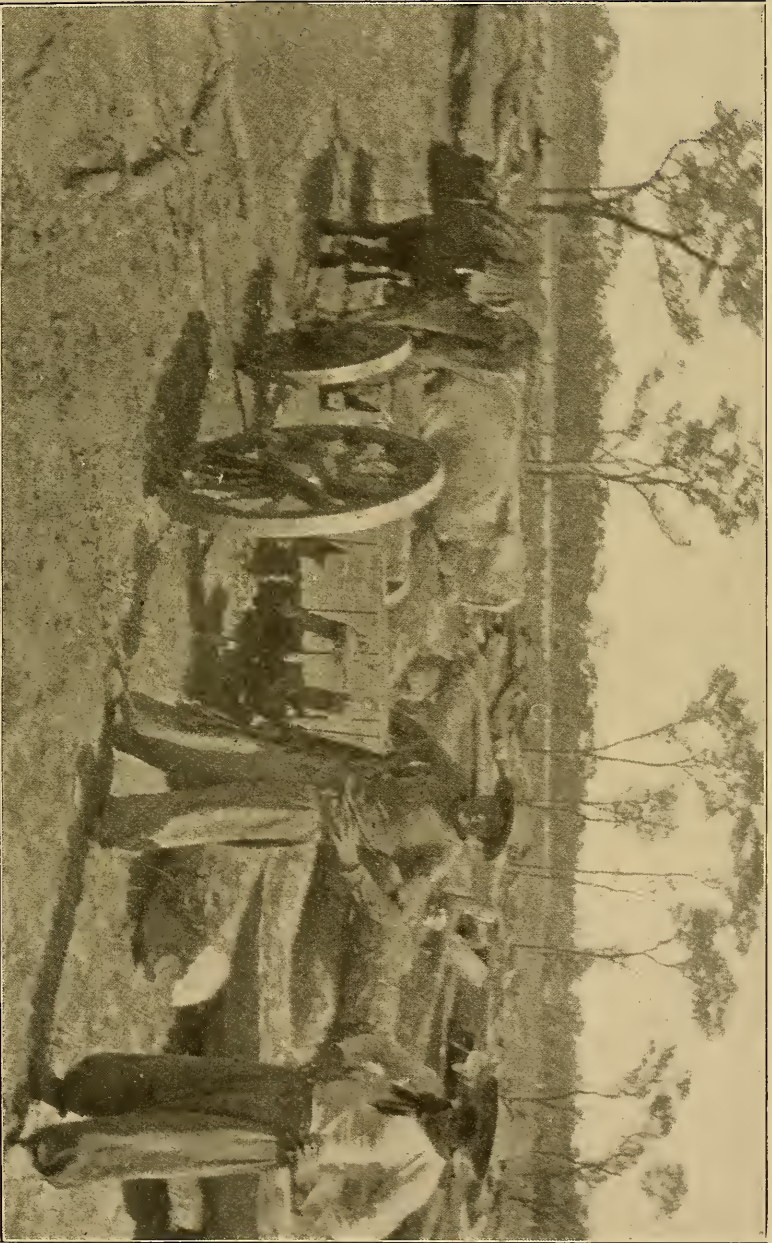
“Rollizos” is the Spanish word commonly employed in the trade for the rough and untrimmed logs (which the word means) from which only the bark has been removed. They are still supplied by



A BY-PRODUCT OF QUEBRACHO.

If quebracho logs are to be utilized for sleepers and the smaller portions of the tree are not available for tanning extract, they are still valuable for firewood, and are thus shipped for that purpose to many of the cities of Argentina. Even the railways find this wood serviceable for fuel.

smaller camps from dwarfed undergrowth not great enough for other purposes than posts, beams, cabin pillars, or cart axles. When the forest was first invaded these logs were the only product brought out of it, and the stories told of the primitive methods adopted by the natives for transport carry one back before the days of steam and machinery. A popular way of loading the logs was to lay them on the ground on ropes; then the animals were unharnessed and the cart was tilted bodily upside down over the logs; these were then made fast to the body of the cart, after which maneuver it was brought back to its normal position. Of course only two-wheeled



LOADING QUEBRACHO LOGS (ROLLZOS).

In the early days of the timber industry of "The Chaco" the native way of handling logs was very primitive. The old two-wheeled cart is now displaced by substantial wagons, however, and the work is carried on expeditiously.

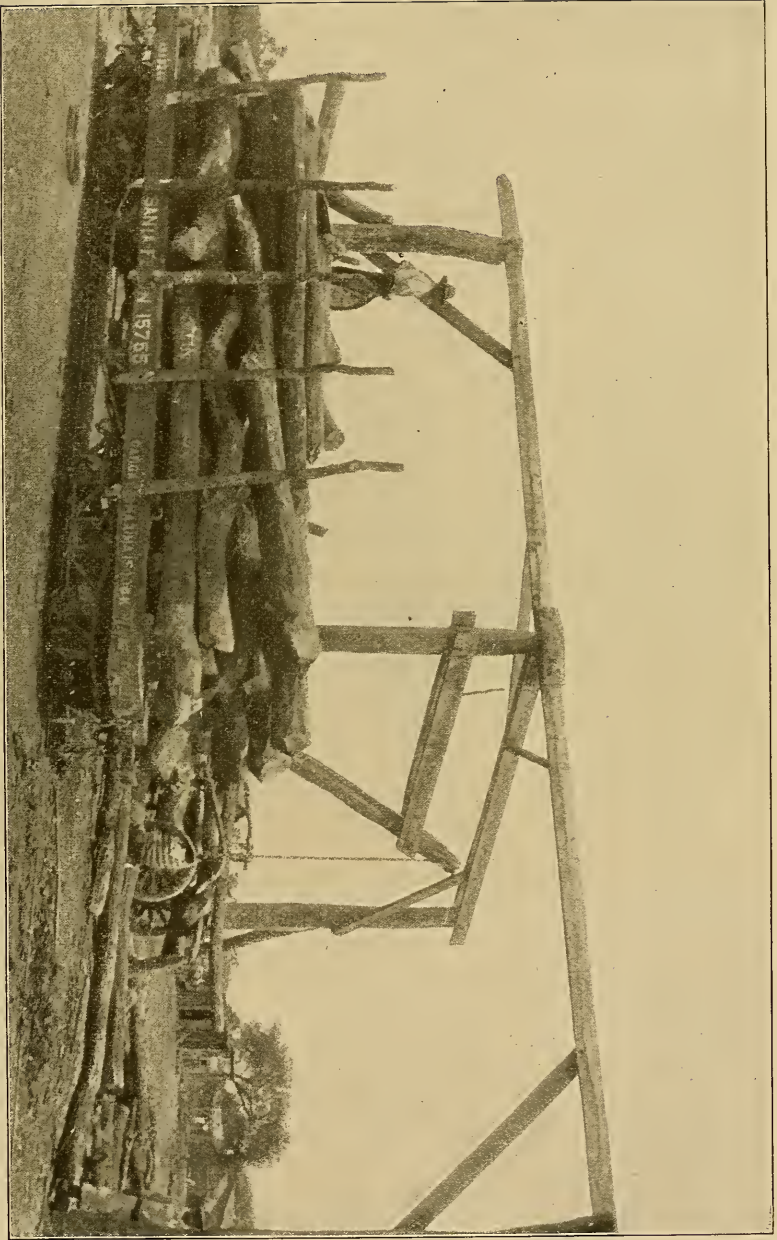
carts were used. As soon as modern methods were introduced, and better carts or wagons became known, these primitive and cumbersome habits disappeared, although in the far interior even to-day rollizos are still brought to market in this manner. "Durmientes," according to the Spanish, or sleepers, in the English idiom, are probably the most important product of the quebracho of the Argentine Republic. It may be remarked, by the way, that the Spanish, in need of a concise term for the translation of the English "sleeper," have translated the word directly into that language by "durmierte," although etymology seems to derive the English term from the



A RAILWAY RECENTLY CONSTRUCTED IN "THE CHACO."

This line has just been constructed through a virgin forest. Quebracho trees are seen on both side of the track which lies in a cut about 7 feet deep. As this is the deepest cut for many miles, an idea can be formed of the uniform evenness of the country bearing the name of "The Chaco."

Norwegian. In that language the word means a heavy beam on which a load is rested or hauled. *Quebracho colorado* has been utilized for sleepers on the Argentine railways for many years past, and preference is always given them for this purpose when they can be procured at anything like a reasonable figure, because they are so extraordinarily durable. Logs of quebracho felled twenty-five years and left to lie in the forest have been shown to be absolutely sound and hard and quite available for railway construction. It is stated that no one of practical experience seems yet to have determined what is the average length of life of a quebracho sleeper, for good timber,



LOADING QUERRACHO LOGS ON A LOCAL RAILWAY.

Quebracho industrial companies have introduced all modern improvements in handling their product, and have laid small railways into the forest, on which logs are carried to the mill and thence to the trunk lines of Paraguay and Argentina.

free from sap, lasts indefinitely in a perfect state of preservation and really hardens by age. This wood is the hardest in the River Plate basin, excelling even the northern oak, and equaled probably only by certain woods used for the same purpose, taken from the more tropical areas of the Brazilian forest.

The industry of making sleepers has assumed huge proportions. The difficulties of former days have been largely overcome by the introduction of modern machinery, especially saws, and some of the mills many miles distant from any main railway are equipped and organized in a manner which would reflect credit on any similar



A RAILWAY STATION IN THE QUEBRACHO WOODS.

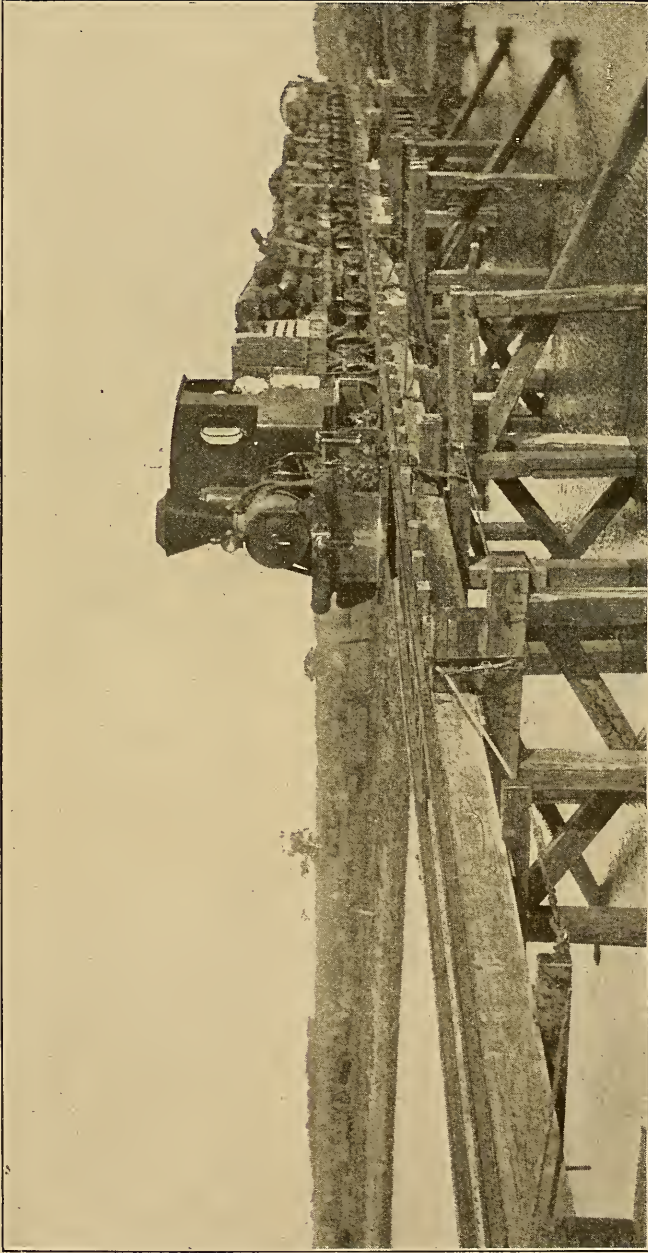
As soon as the railway is built into a new country, even if quebracho gathering was its only purpose, a station is built and a village springs up around it. In this manner the whole region once known as "The Chaco" is becoming inhabited, and its mystery will soon be a thing of the past.

plant in the United States. Special saws are needed to penetrate the wood, but they are furnished from the factories of England, France, and America. This mill business is carried on by many companies, although the tendency is to concentrate the management into fewer but larger organizations. One company owns a tract of land of about 4,000,000 acres, and is prepared to cut timber, fashion it into logs and sleepers, prepare tanning extract, and utilize every other resource which the land provides. Another company can turn out 20,000 to 30,000 sleepers a week. This number, however, can by no means meet the steady demand for railway building which is





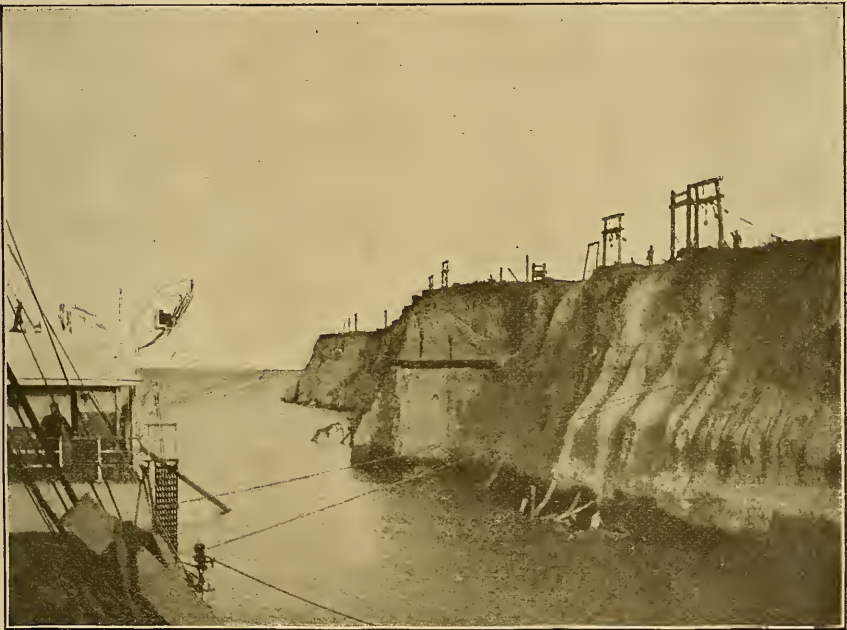
**MODE OF TRANSPORT BETWEEN THE OLDER WAGON AND THE NEWER RAILWAY.**  
Before the quebracho industry had assumed its present proportions it was thought a very progressive step to lay rails for traction by animals to the edge of the forest.



A QUEBRACHO TRAIN APPROACHING ITS DESTINATION.

The terminus of many railways in the Chaco is at river navigation. Here the train unloads its burden into ocean-going vessels for some destination over sea.

characteristic of this portion of South America. Sleepers are laid at about an interval of 2 feet from center to center. Assuming, therefore, only 2,000 sleepers for every mile, it will be seen that 30,000 are enough for only 15 miles. A year's supply at fullest capacity will consequently build only 750 miles of railway. But the Argentine Republic, Uruguay, Chile, and Bolivia, all contiguous to the Chaco, are constructing more than this mileage, so that it is easy to see that every sleeper turned out from modern mills can at once find a local market. These sleepers are now finished at the mill, and the mill is situated at the spot in the forest itself most con-



LOADING QUEBRACHO FROM A HIGH RIVER BANK TO AN OCEAN-GOING STEAMER.

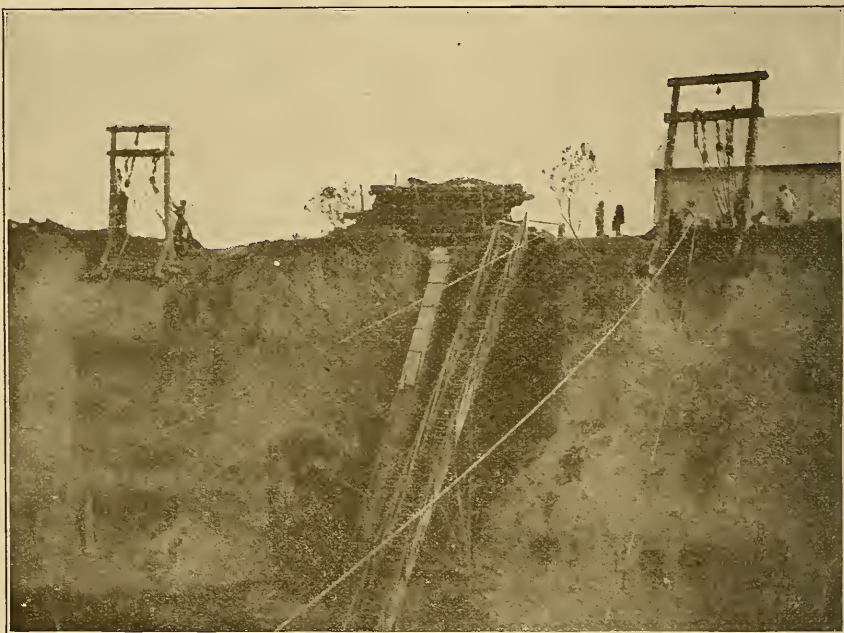
On the Paraná River, near Rosario, anchorage is found for steamers of considerable draft, but special apparatus is employed to get the logs on board. They are first lowered to the stream by wire rigging and then hoisted to the deck.

venient for carrying on the process. Conducted thus with modern appliances and under the best of business management, the industry is a profitable one, of benefit to all concerned, including the Government, which thus sees new land brought into use, and to the native workmen, who are in this way introduced to industrial life.

Quebracho extract prepared for tanning skins and hides into leather is, however, the most serviceable product of the tree. All the timber companies are adjusting their plants so as to utilize the wood, either in its entire output, or in that portion not reserved for posts and sleepers, for this extract. In Paraguay and areas in the

Chaco remote from good roads, so that the cost of supplying timber is excessive, every particle of the wood is turned into extract, because the demand is usually in advance of the supply, and it is therefore more profitable to manufacture the more concentrated article, which can be easier and more economically carried to market.

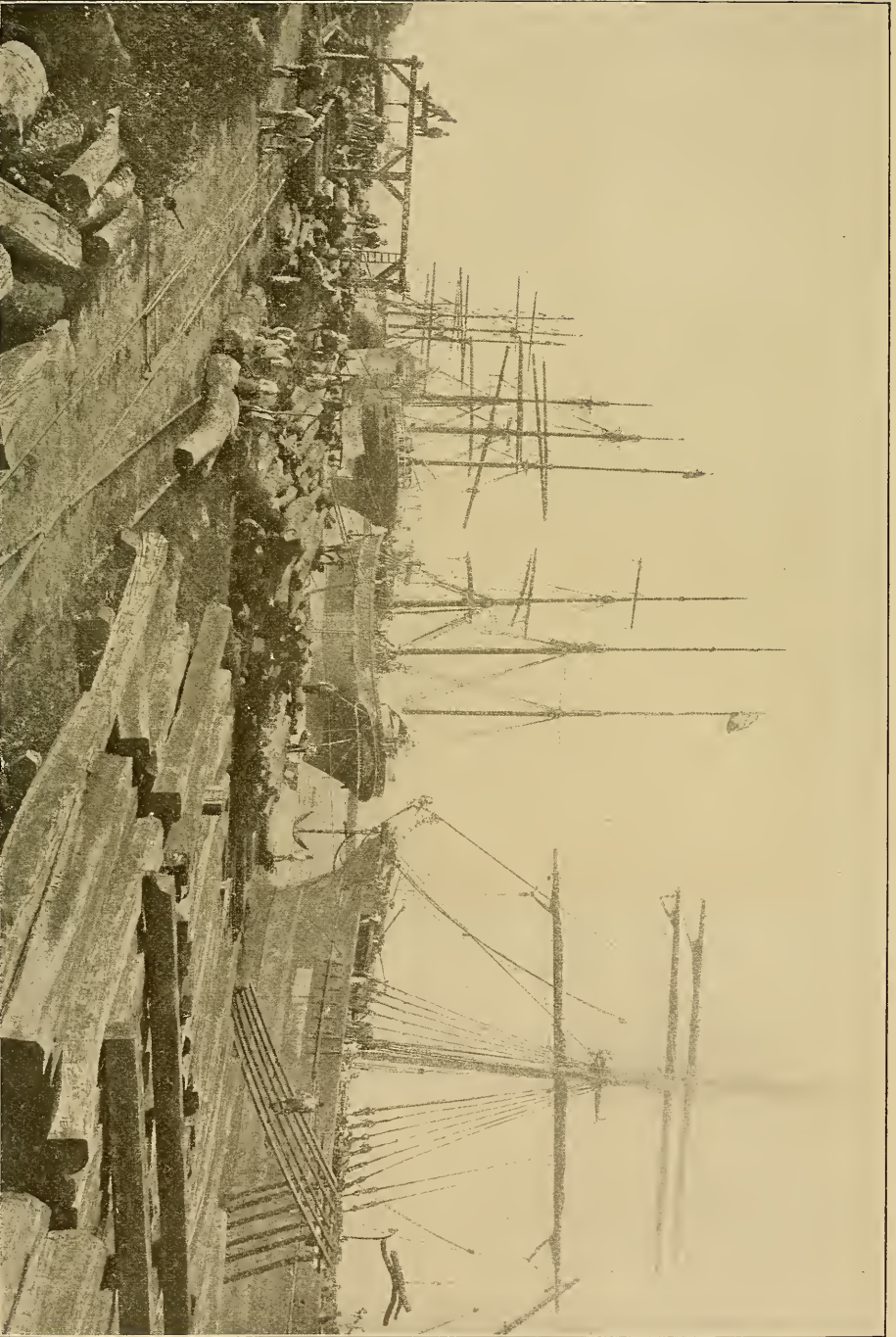
One feature of quebracho, in which it is superior to other sources of supply, is that the bark, the sapwood, and the whole of the central part of the tree produce the extract in considerable quantities. The bark contains 6 to 8 per cent of tannin, the sap 3 to 4 per cent, and the heart 20 to 25 per cent. As the heart represents two-thirds and



LOADING QUEBRACHO FROM A HIGH RIVER BANK TO AN OCEAN-GOING STEAMER.

On the Paraná River, near Rosario, anchorage is found for steamers of considerable draft, but special apparatus is employed to get the logs on board. They are first lowered to the stream by wire rigging and then hoisted to the deck.

often three-fourths of the total quantity of wood, the amount of tannin in the *Quebracho colorado* is seen to be considerable. It is merely a chemical question whether this tanning material is equal or inferior to that from the oak, but later methods of preparation point to a full justification of the claim that the leather from quebracho extract grades up to that resulting from any other tanning substance. So serviceable is it, however, that since its discovery the tanning industry of the Argentine Republic has made noticeable advance, because, with both hides and extract as great natural products of the country, the Government is making every effort to foster the leather industry within its own border.

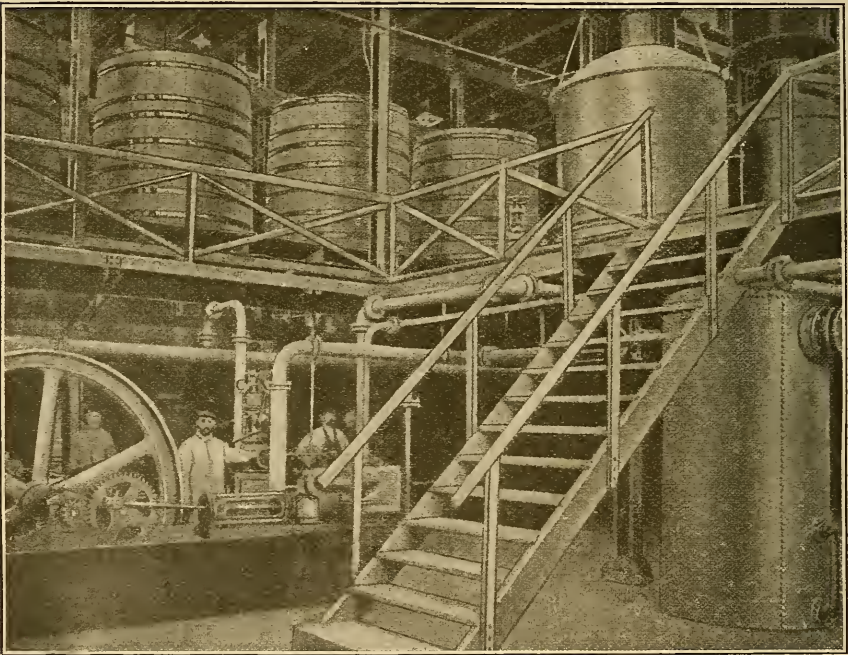


LOCAL PORTS FOR QUEBRACHO TRAFFIC ON THE RIVER PARANA.

From some ports upriver not yet accessible to ocean vessels, local sailing ships or slight-draft steamers carry the products of the forest lower down, or even to Buenos Aires.

“Quebracho extract,” as it is called in the trade, is easily manufactured when the machinery is once installed. All the wood is passed through a machine that cuts it into shavings or the smallest possible chips. It is then collected into immense kettles, in which it is treated by chemical processes until all the tannin is removed; after this the fluid preparation is reduced by evaporation to a thick, jelly-like mass, which is poured into sacks, where it is finally dried into the substance sold in commerce.

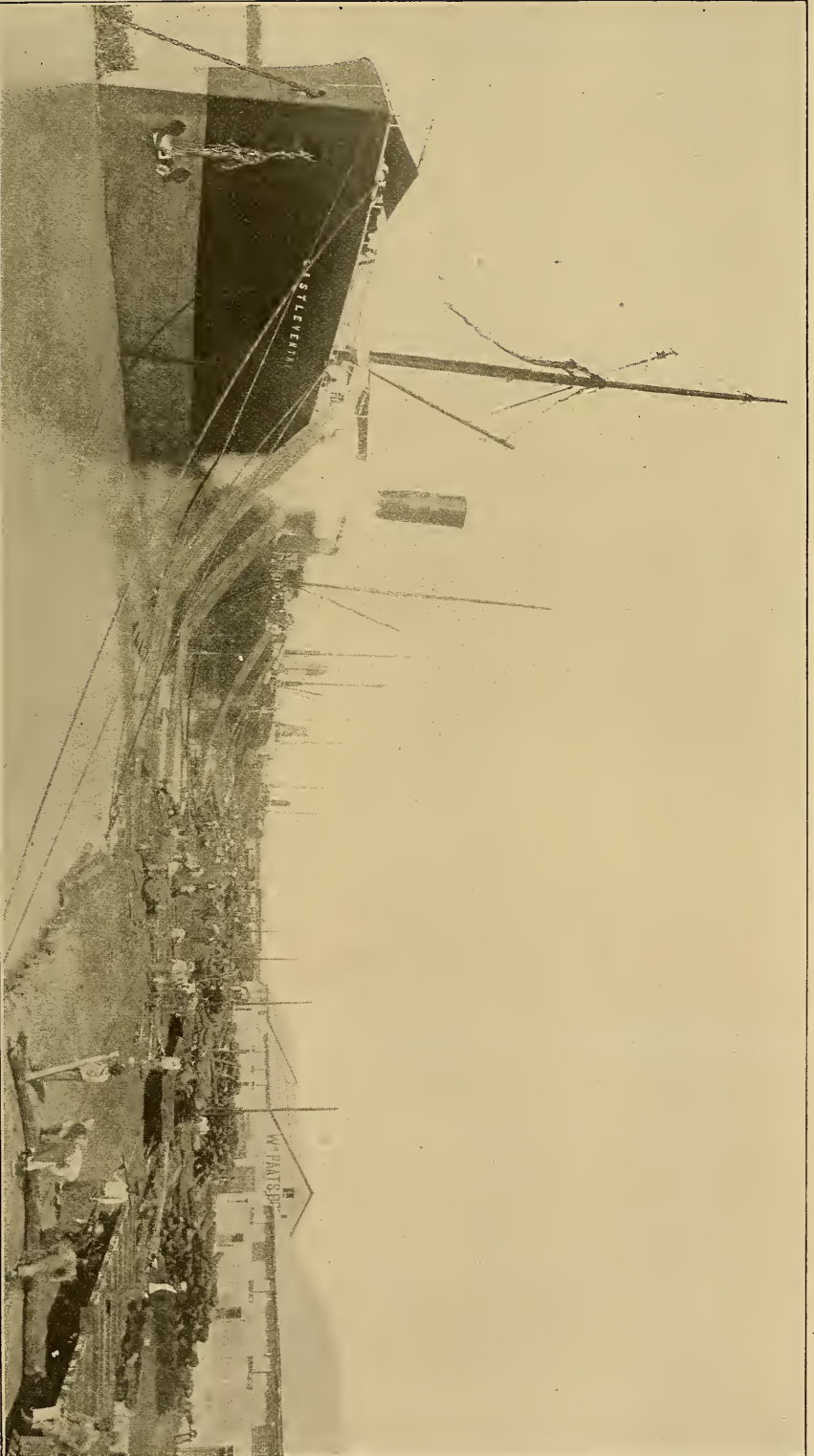
The difficulty of gathering the raw material far outweighs the preparation of the finished article, especially as the extract is no



THE INTERIOR OF A QUEBRACHO EXTRACT FACTORY.

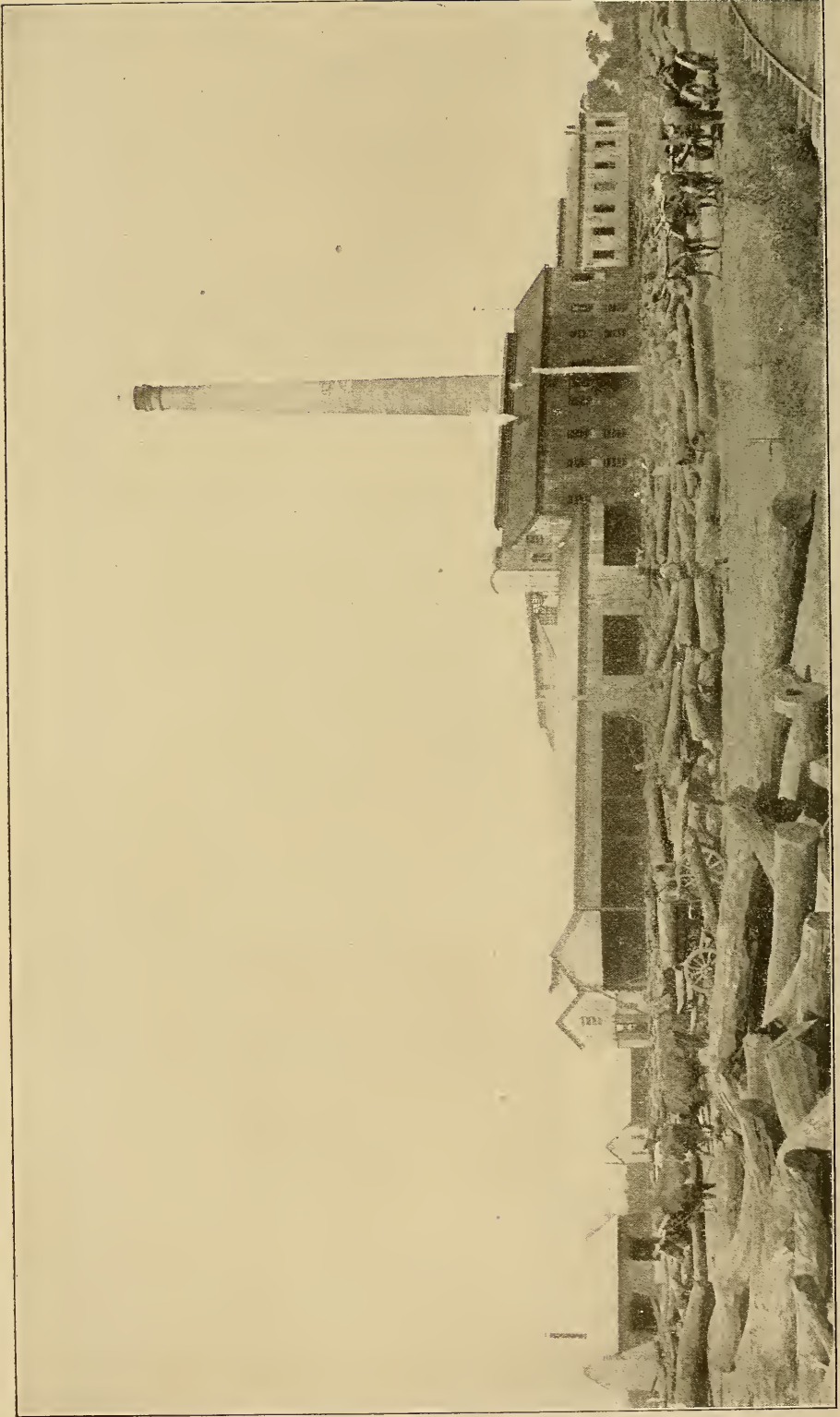
Modern machinery of the best quality is used in these factories, even when they are located miles away from the centers of civilization. Every particle of quebracho can thus be utilized for the extract, which is, after being prepared in vats and boilers, pressed into sacks for drying and then shipped in this condition to the consuming markets.

longer to be considered a by-product, but is coming to have more importance and value than posts and sleepers. In Paraguay particularly, where all the wood is utilized for extract, the hardest part of the business lies in gathering wood for the factory. The trees are cut in the heart of the virgin forest and hauled by ox teams to the nearest clearing. Only native Indians have proven themselves suitable for the work, as they are thoroughly acclimated, understand the wilderness, and can withstand the plague of insects which make life at night miserable for the foreigner; and exposure for nights as well as days is unavoidable, because the cutting stations are usually remote



QUEBRACHO LOGS GOING TO EUROPE.

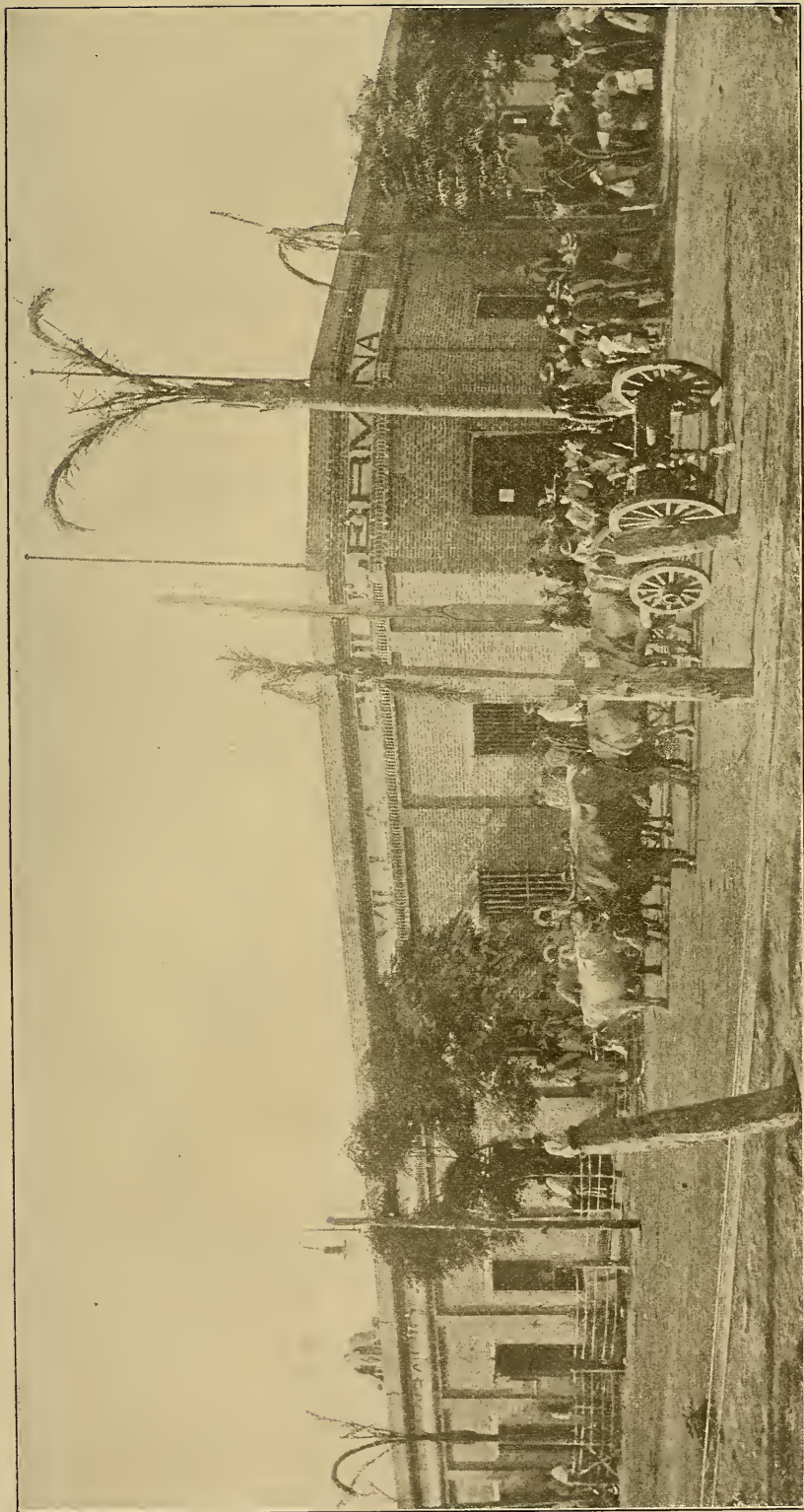
From several points on the Parana River loading is a very simple performance. The railway brings them to the waterside, and the engines on the steamer haul them on board across sleds resting against the banks.



A FACTORY FOR THE PRODUCTION OF QUEBRACHO EXTRACT.

The demand for quebracho has become so great that it has been found more economical to control the entire output of one company from a central plant. To-day, therefore, a factory is equipped for receiving the raw material as it comes from the forest and to convert it into "rollizos," posts for fences, sleepers, or extract for tanning, as the demand may require.





THE OFFICE BUILDING OF A QUEBRACHO COMPANY.

Many of the companies engaged in the quebracho industry are capitalized at large sums, and have erected substantial works of a permanent character. Their offices, factories, and mills are frequently grouped together, but in some instances the sawmills are located within the forest and connected with the offices by a line of railway.

from any settlement. It has for some years been found advantageous for each factory to have radiate from it several lines of narrow-gauge railway to points on which the newly felled trees are carted. As soon as the logs reach the railway their progress to the factory is easy, and all the elements of a modern industry are evident.

In 1895 the first real exportation of quebracho extract from the River Plate was recorded. The increase has been rapid—from 400 tons in the first year to 9,000 tons in 1902, 120,594 tons in the next five years, and 28,195 tons in 1907. Of this quantity the United States received 17,733 tons, or almost 65 per cent.





## RAILWAYS IN BOLIVIA

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**A**S a result of having lost its Pacific seaboard province of Antofagasta, following the war with Chile in 1879, Bolivia found itself shut off from the sea and dependent upon its neighbors for an outlet to the great world.

Great as was the blow to national pride, for the Bolivians felt the loss of Antofagasta more keenly than even the French that of the



TRACK LAYING INTO ORURO.

Rhine provinces, and serious as was the loss to the national treasury of the revenues derived from the rich nitrate fields of the lost province, yet the blow was perhaps less heavy than the Bolivians themselves then thought.

It changed entirely the country's economic outview and pushed it forward into lines of development which in all probability would otherwise have been delayed for many years. Even prior to 1879 the nitrate fields were for the most part owned by foreigners, the Bolivians themselves being engaged in gold and silver mining. But the taxes from nitrate production paid in a large measure the expenses of government, and with the loss of this revenue the State was forced into consideration of the economic development of the country in other lines than gold and silver production alone.

The settled part of Bolivia was then, and is to a large extent yet, that high table-land, one of the most spacious and elevated plateaux



TRACK LAYING NEAR ORURO.

In the left distance is shown a deep-well drilling apparatus.

to be found on the globe, which lies between the Western and the Eastern Andes. This table-land extends from about the Argentine border in the south into Peru on the northwest, and is from 60 to 150 miles in width.

On the Chilean border the Western Cordillera is in reality less a mountain range than a line of huge cliffs. The table-land is itself 12,000 to 13,000 feet above sea level and slopes gradually 2,000 or 3,000 feet up to the crest of the western hills and then falls away abruptly nearly 3 miles down, 15,000 feet, to the desert land lying between the foot of this immense line of cliffs and the Pacific Ocean. To the east of the table-land lies the High Andes, the *Cordillera Real*, rising in Illampú, Illimani, Ancochuma, and Sajama over



FREIGHT STATION AT PULACAYO, BOLIVIA.

21,000 feet. North, east, and south from the *Cordillera Real* the land falls away to the great Amazon and Parana plains. This country, three-fourths of Bolivia in area, is but little settled, but is in natural resources and soil one of the richest parts of the world.

It could easily sustain an agricultural population greater than the whole present population of South America.

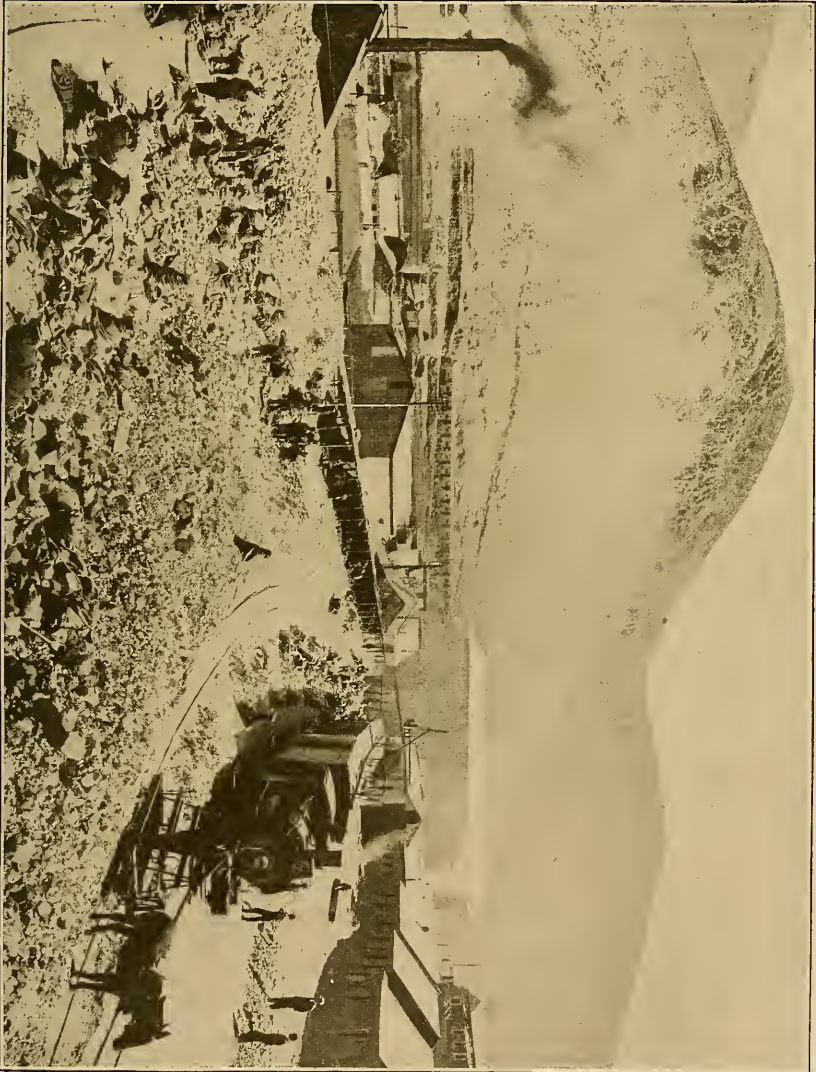
The first and most pressing need to Bolivia is railways. This need was recognized to a certain extent prior to the war with Chile. As far back as June, 1863, the National Assembly authorized the President to enter into contracts for the building of railways, and in 1868 a concession was granted to a citizen of the United States to build a railway from Cobiji to Potosí with a government guaranty of 7 per cent on the capital invested. In addition, the concession



AN EXCURSION TRAIN ON A BOLIVIAN RAILWAY.

carried a grant of land 1 league on each side of the line. A number of other concessions were made in 1869, 1872, 1873, 1874, 1877, 1878, and 1879.

In 1904 the Bolivian National Office of Immigration and Statistics issued a volume of nearly 500 pages containing the acts, decrees, and concessions in aid of railways, covering the years 1880 to 1904. Every effort was made by the Government during this period to induce capital to invest in railway construction in the country. Perhaps nowhere else in the world were such inducements held out by any country to secure the end sought as by Bolivia, following the termi-



RAILWAY SIDING AT PULAYO. ORE DUMPS AND INDIANS ASSORTING ORE.

nation of the war with Chile. These inducements were offers of land, mines, exemption from taxation and customs duties, government guaranties, financial aid, and exclusive privileges. But unfortunately for Bolivia the offers were not made in the right quarter. In its eagerness to secure results, concessions were granted to and contracts made with the most irresponsible parties, in many cases mere adventurers without capital or influence. The net result was naturally to retard rather than to help railroad construction.

In 1904 all that Bolivia had to show in railways as a result of forty years' legislation and innumerable contracts were the Guaqui and the Antofagasta roads. The former gave an outlet from La Paz to Lake Titicaca, whence passengers and freight were transported across the lake by boat to the Peruvian port of Puno and thence by the Peruvian Railway to Nollendo on the Pacific. The total length of the road from Alto of La Paz to Guaqui on Lake Titicaca was 87 kilometers (54 miles). The gauge was 1 meter (39.37 inches) and the rails weighed 18 kilograms per meter—about 12 pounds per foot.

The Antofagasta, Bolivia's first railway, had a total mileage of 925 kilometers (573 miles), a gauge of 75 centimeters (29.53 inches), and rails weighing 17.40 kilograms per meter, or about 11 pounds per foot.

It was not until twenty-five years after the outbreak of the war with Chile and twenty years after the signing of the agreement of April 4, 1884, which marked the close of that war, although it did not conclusively settle all the questions arising therefrom, that on October 20, 1904, at Santiago, plenipotentiaries of the two countries signed the treaty of peace and friendship which put a final end to all disputes between Bolivia and Chile and secured in addition concessions to the former.

By the second article of this treaty the boundary question was disposed of, and by the third article it was agreed that—

For the purpose of drawing closer the political and commercial relations of both Republics the high contracting parties agree in uniting the port of Arica with the Alto of La Paz by a railway, the construction of which the Government of Chile shall undertake at its own cost within the period of one year, counting from the ratification of this treaty. The ownership of the Bolivian section of this railway shall pass to Bolivia at the expiration of the term of fifteen years, counting from the day of its final completion.

To the same end Chile engages to pay the obligations which may be incurred by Bolivia in guaranteeing up to 5 per cent the capital which may be invested in the following railways, the construction of which may be begun within the period of thirty years: Uyuni to Potosi; Oruro to La Paz; Oruro by Cochabamba to Santa Cruz; from La Paz to the region of the Beni, and from Potosi by Sucre and Lagunillas to Santa Cruz.

This agreement shall not import to Chile an expenditure greater than £100,000 sterling a year, nor exceed the amount of £1,700,000 sterling, which is fixed as





UNLOADING TIES AND RAILS AT GUAQUI, BOLIVIA.



the maximum that Chile shall pay for the Bolivian section of the railway from Arica to the Alto of La Paz and on account of the said guaranties, and shall be null and void at the conclusion of the thirty years above indicated

The construction of the Bolivian section of the railway from Arica to the Alto of La Paz, as also the construction of the other railways to be built under the guaranty of the Chilean Government, shall be a matter of special agreement between the two Governments and in which shall be taken into account the facilities to be given to the commerce of the countries.

In Article IV of the treaty Chile agrees to a cash payment to Bolivia of £300,000 sterling, and in Article V it assumes the Bolivian mining obligations to the extent of \$4,500,000 Chilean gold (of 18d.),



LAKE TITICACA, AT GUAQUI.

The La Paz-Mollendo route is from La Paz to Guaqui, in Bolivian territory, by rail, and thence across Lake Titicaca by steamer to Puno, and again by rail, in Peruvian territory, from Puno to Mollendo, on the Pacific. The steamer shown to the right in the picture is the *Inca*, of the regular line. In the foreground are *balsas*, made of close-woven straw, used by native fishermen on the lake.

and old Bolivian railway and certain other specified obligations to the extent of \$2,000,000 Chilean gold.

In the preceding year, 1903, was signed the treaty of Rio de Janeiro with Brazil. Under this treaty an exchange of territories between the two countries was effected. Bolivia acquired on the southeast the strip of territory lying between its boundary and the Paraguay River, and Brazil acquired Bolivia's claim to the Acre region on the northeast. The latter territory being considered the more valuable, Brazil stipulated to pay a cash indemnity of £2,000,000 sterling.

These two treaties, it will be seen, were of immense consequence to Bolivia: First, in relieving her from the old railway and mining entanglements; second, in securing the construction of the Arica-

La Paz railway; third, through the loan of Chilean credit in internal railway construction; and, fourth, in providing a cash fund of £2,300,000 with which to guarantee or to begin the actual construction of the trunk lines.

Following the ratification of the treaties negotiations were opened with prominent European and American capitalists, and on May 19, 1906, a contract was signed with the National City Bank and Speyer & Co., of New York. The contract was signed in La Paz by a representative of the concessionaries and additional stipulations were made on May 22. The contract was approved by President MONTES and the Council of Ministers on this last date, and was ratified by the Bolivian National Congress on September 18, 1908. In 1908, at the request of the concessionaires, certain changes were made in the contract to enable the concessionaires to reach an agreement with the owners of the Antofagasta line. A law authorizing such changes was passed by the National Congress and approved by President MONTES on December 1, 1908.

The negotiations leading up to this contract were conducted on the part of Bolivia by Sr. DON IGNACIO CALDERON, Minister to the United States.

Under Article III of the contract the concessionaries oblige themselves within a period of ten years to construct the following railway systems:

- (a) From Oruro to Viacha, with a branch to the river Desaguadero, connecting with the Arica line.
- (b) From Oruro to Cochabamba.
- (c) From Oruro to Potosi.
- (d) From Potosi to Tupizi, by Caisa and Catagaita.
- (e) From Uyuni to Potosi.
- (f) From La Paz to Puerto Pando.

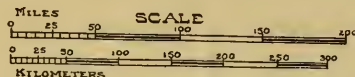
All of these roads are to be 1-meter gauge except the last two mentioned, which, in the discretion of the concessionaries, may be of 75 centimeters gauge.

The cost of the railways is estimated at £5,500,000 sterling, including £1,200,000 allowed for the La Paz-Puerto Pando line.

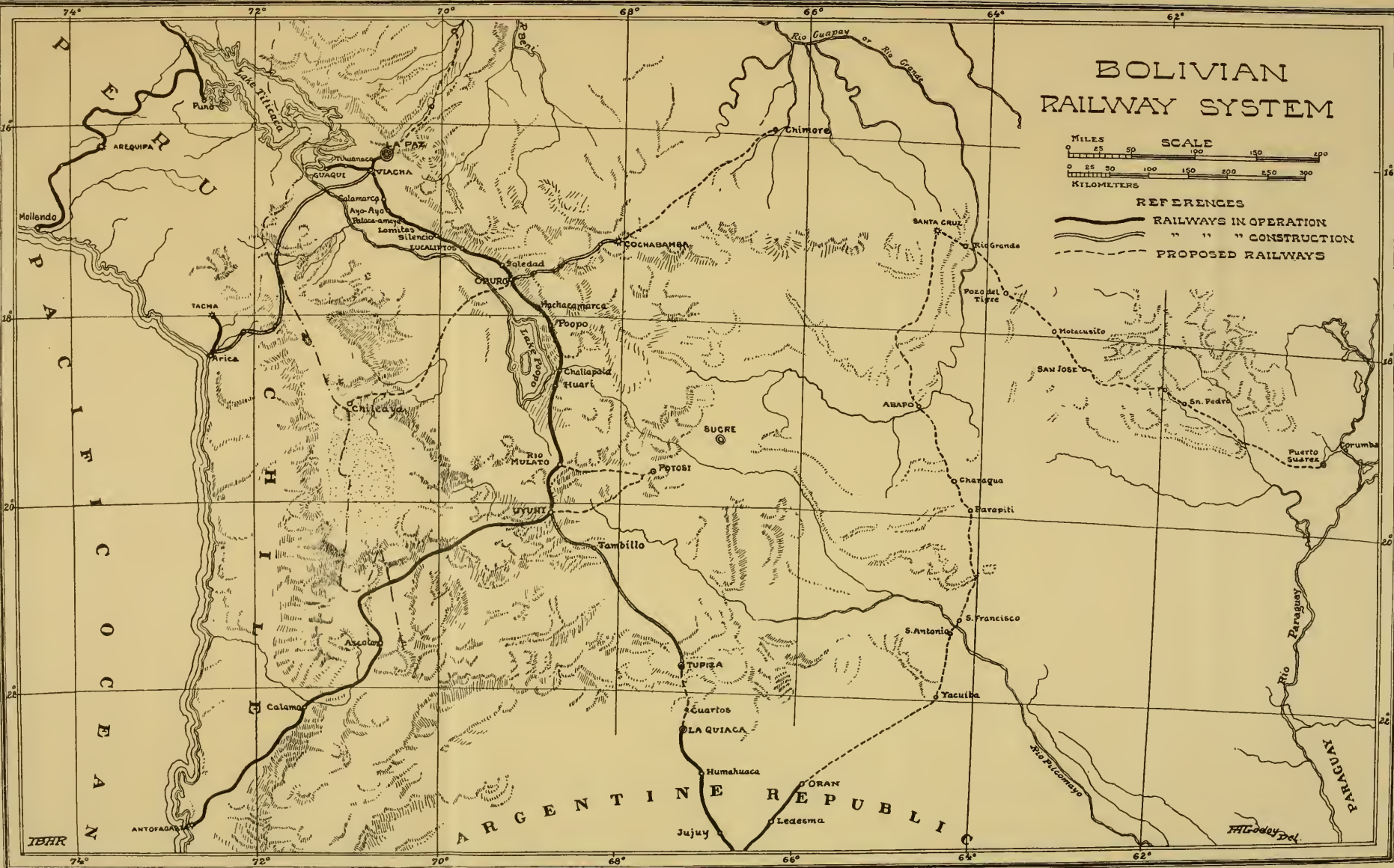
The concessionaries are authorized to issue two classes of bonds—first mortgage and second mortgage, or income bonds. The first-mortgage bonds, which are a first lien, are authorized to the amount of £3,700,000 sterling, bear 5 per cent interest, and are payable in twenty years. The interest for twenty years is guaranteed by the Government of Bolivia.

A further issue of additional first-mortgage bonds to the amount of £2,000,000 sterling is authorized in case the sum of £5,500,000 proves insufficient to build the lines. These bonds will bear 6 per cent interest, and the interest will not be guaranteed by the Govern-

# BOLIVIAN RAILWAY SYSTEM



- REFERENCES
- RAILWAYS IN OPERATION
  - " " " CONSTRUCTION
  - PROPOSED RAILWAYS



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ment. The second-mortgage or income bonds run for twenty-five years, bear 5 per cent interest, and are a second lien on the roads.

Under an agreement made in London in 1907 by the Antofagasta and Bolivia Railway Company, which is a British corporation, and Speyer & Co., the Antofagasta Railway Company agreed to guarantee the interest on the line from Oruro to Viacha, and in addition to make a payment to the concessionaries for a majority of the line's stock. This agreement made necessary the law, mentioned above, signed by President MONTES on December 1, 1908. The purpose of this agreement is to make the new lines serve as feeders to the Antofagasta line instead of playing the part of competing lines, as would have been the case had the original programme of construction been carried out.

The Oruro to Potosi line of the original plan would partly parallel the Antofagasta line. It is very probable that a complete merger of the interests of the Antofagasta and Bolivia Railway Company and the American concessionaries will be made.



# THE ÑANDUTÍ OR SPIDER- WEB LACE OF PARAGUAY

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**A**MONG the products of the domestic or household industries existing to-day in Paraguay the most remarkable and interesting is the native handmade lace known as "ñandutí." The making of this lace has been the work and recreation of Paraguayan women for over a century.

About eighty years ago, in the time of Francia, immediately following the independence of the Republic, the women of the best



A COUNTRY HOME IN PARAGUAY WHERE LACE IS MADE AS A PASTIME.

families were the most skillful of lace makers and they passed most of the day fashioning some dainty article of adornment. The lace made at that time was purely a Paraguayan product, as the material used was either cotton, grown and spun in the country, or a fine fiber prepared from the leaves of a plant called *cara-guatá*, a kind of wild pineapple of the Bromelia family.

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<sup>a</sup> By Edward J. Norton, late consul of the United States at Asuncion, Paraguay.



President LOPEZ, sixty years ago, gave the industry every encouragement. One chamber in his palace was decorated with patterns of the finest lace hung on a background of crimson satin.

To-day ñandutí (pronounced nyandutee) is seldom made in the homes of the better classes, although some women in the older families continue to make the lace as a pastime. Of recent years Paraguayan women of all classes have, to a great extent, given up the use of ñandutí for the trimming of dresses and have discontinued wearing the mantilla of native lace. On account of the decided preference shown for articles of imported lace the old industry is steadily declining.



GROUP OF LACE MAKERS, SHOWING THE FRAMES OR "BASTIDORES" ON WHICH THE LACE IS MADE.

The making of Paraguayan lace at present is strictly professional work and the product is sold in considerable quantities to the tourists who visit Paraguay during the winter months. A familiar sight on the streets of Asuncion is the woman lace seller with her little basket containing often a small fortune in different articles of native needlework. Continuous shipments of lace are made to Montevideo and Buenos Aires where ñandutí finds a ready sale. There are no figures upon which to estimate the value or quantity of Paraguayan lace exported to the River Plate countries, but the trade is of some importance. Very little Paraguayan lace finds its way to either Europe or to the United States, practically the only articles reach-

ing those parts of the world being gifts sent abroad or taken home by travelers.

While the spider-web lace of Paragnay bears a distinctive character it is difficult to trace the industry to its beginning. It has been written of as the work of the Guaranis, one of the ancient Indian tribes inhabiting Paraguay at the coming of the Spanish, in 1536, who, with native fibers or cotton imitated the web of the spider. Although the early Spanish historians have minutely described the customs and primitive handicrafts of the ancient Indian tribes, no mention is made of lace making. The Guarani were weavers of coarse cotton or fiber fabrics, and this is, most likely, as far as they progressed in the working of textiles. Explorers have noticed curious arabesques, earthenware statuettes, and wood carvings of early Paraguayan origin, all being copies from nature, but the inhabitants of old Paraguay were hardly capable of making lace.

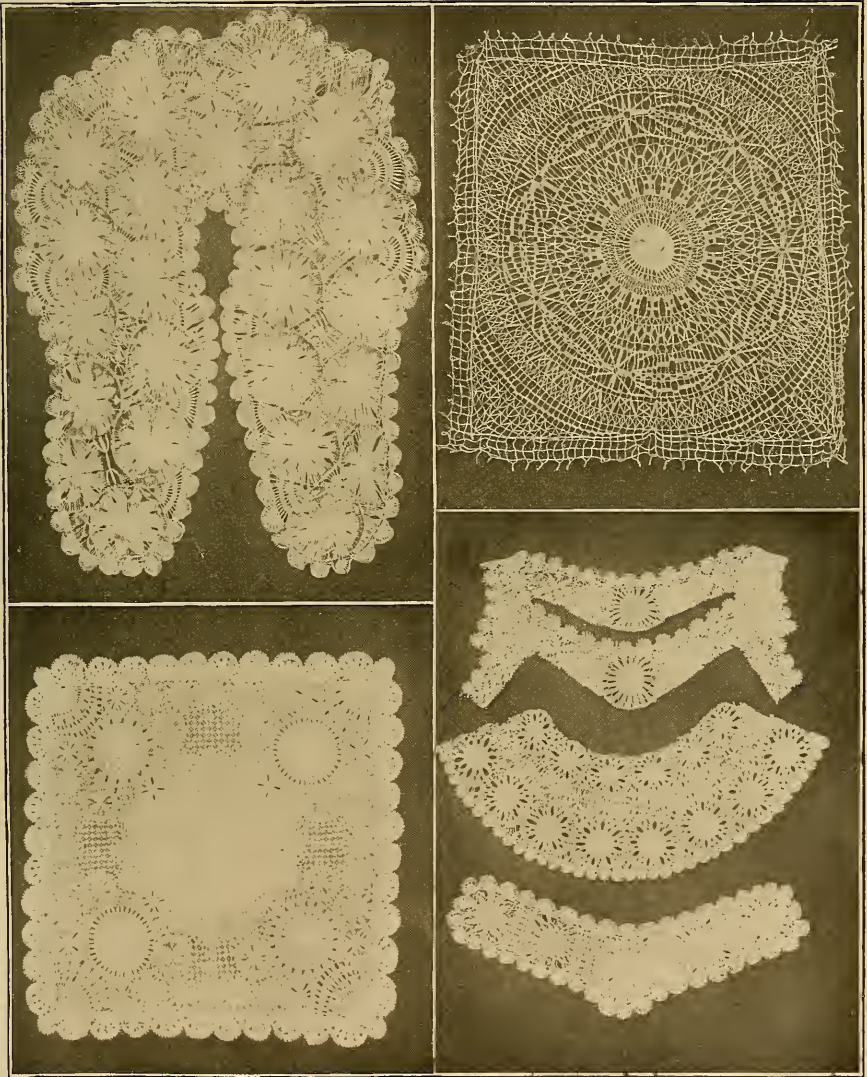
The word *ñandutí* is taken from the Guarani, but in the old dictionaries of this tongue, compiled by the Jesuits, the definition given of the word is very precise and limited; the extent of the significance of *ñandutí* being, literally, cobweb.

In the thirteenth and fourteenth centuries embroidery of geometrical patterns in colored silk, on a network of small meshes, was made throughout Europe. This was known as "spider work." A weaving of threads with a needle into a foundation of net has been done for a long time in Spain, the leading characteristics of this lace being a pattern of repeated squares filled up with radiating figures. When fine thread is used the effect of heavy cobwebs is produced. Some of the coarse "torchon" lace of Paraguay is similar to the Spanish product.

While Spain was, to a certain extent, a lace-making country, none of the products were distinctive. Spanish historians and the ordinances of the fifteenth, sixteenth, and seventeenth centuries do not allude to the industry. Considerable lace was made in convents, but the bulk of the laces used in Spain were imported from Spanish Flanders, both of the needle-point and pillow varieties.

A pillow lace is made in Malta of black, white, and red threads, chiefly in geometric patterns, including circles, wheels, and radiations of shapes resembling grains of wheat. This characteristic of design, appearing in laces of similar make which have been identified as Genoese pillow laces of the early seventeenth century, reappear in Spanish and Paraguayan work.

The *ñandutí* of Paraguay undoubtedly was first made in imitation of the Flemish or Genoese laces brought to America by the Spanish settlers, as the early designs of the Paraguayan lace seems to have been copied from patterns of European needle-point lace of about the year 1550.



ÑANDUTI LACE WORK.

For many years Paraguayan laces were made with little variety of pattern. The figures were chiefly geometric. Paraguayan women, however, are famous for their skill with the needle and, combined with a sense of beauty and their wonderful imitative faculty, they introduced floral forms, scrolls, and a large variety of figures into their product. Very few original patterns are produced to-day. The designs are known by their Guarani names, but many are easily recognized, such as the sun, the butterfly, the star, the cross, and the rice-stalk patterns.

Much of the lace made at the present time is composed of certain stock or set designs, chiefly circles and wheels, and these are scattered



A SELLER OF LACE AS SEEN ON THE STREETS OF ASUNCION, PARAGUAY.

in the general pattern at the caprice of the maker. In some articles there is noted a very irregular and widely different grouping of design, frequently including 11 or 12 different patterns, and this work is regarded as the best. Articles of one set pattern are not considered attractive or characteristic.

With little or no knowledge of drawing or design, the skillful, patient, and industrious women of Paraguay make much beautiful lace. Some of their work is very artistic and of splendid quality. The very finest lace, made of either cotton or silk thread, is as delicate and filmy as the cobweb from which it takes its name.

In making the lace, a pattern is first outlined, in pencil or charcoal, upon a groundwork of cotton, linen, or silk. The fabric upon which

the lace is made is held firmly in a light wooden frame called "bastidor." As the work progresses the lace is lightly stitched to the fabric held in the frame, and when completed the finished article is released by cutting these threads.

Considering the amount of labor required to produce this hand-made lace and the relatively low prices for which it sells, it is a matter of wonder that the native women, chiefly of the lower classes, who earn their living by lace making, will spend so much time working at articles that sell so cheaply. The making of a fine handkerchief requires two months' steady labor, working from sunrise to sun-



INTERIOR OF A WHOLESALE AND RETAIL STORE IN ASUNCION WHERE ÑANDUTI LACE IS SOLD.

set, and this article will sell for about 100 *pesos*, or \$6 American gold. The lace "bolero," or, as it is called here, "torero," requires from four to six months to make. A fine parasol cover can not be completed within one year, and all this article will bring is 500 *pesos*, or about \$30 American money. The prices of all articles vary greatly according to the material used and the quality of the work.

The little town of Itaugua, situated about 20 miles from Asuncion, is the center of the Paraguayan lace industry. Practically every family in this town is engaged in lace making, and the grandmothers of 90 work in the long pillared corridors of the old houses side by

side with their granddaughters of 9 years of age. The little children in this village of lace makers take up the needle at a very early age and in a few years become very dexterous workers. Probably 1,000 women and children in this district are occupied exclusively in the making of lace.

The products consist of pillow shams, collars, stoles, toreros, parasol covers, handkerchiefs, mantillas, collars, curtains, trimmings for dresses and underwear, while elaborately-worked robes and dresses are frequently made to order.

There are several other household industries, peculiar to Paraguay, which still exist despite the competition of imported articles. Native sweets, jams and preserves, liqueurs and rums of excellent quality are still manufactured on a small scale. Some native remedies are still made and are highly appreciated.

Over three hundred years ago the Jesuits established a pottery in the little town of Ita and the Indians made a variety of articles for the use of the missions. Much of the pottery used in Paraguayan homes to-day comes from Ita, and the women of this district are noted for their dexterity as workers in clay. Water jars, crocks, pitchers, vases, and even piping and tiles, all handmade, come from the potteries of Ita.

The making of hammocks and the weaving of textiles was, half a century ago, one of the important household industries. Native fabrics are still woven, but to a limited extent, and this industry is dying out. Hammocks are made in fairly large quantities. The best hammocks produced by the women weavers of Paraguay are made of native cotton which they have planted, picked, and spun themselves; they are beautifully finished and will last a lifetime. A good hammock requires about two months' steady labor, but will sell for about 150 *pesos*, or \$8 American money.



# PINEAPPLES FROM PINAR DEL RIO<sup>a</sup>

CUBA exported 1,263,466 crates of pineapples during the fiscal year which ended June 30, 1909, according to accurate statistics kept in Havana by Mr. W. M. DANIEL, general agent for the Illinois Central Railroad. This is the largest crop on record; it exceeded that of the year preceding by 312,500 crates. Eight years ago the total exportation from the island was little more than last year's increase over 1907-8.

The month of October saw fewest pines sent forward. The maximum movement was, as usual, in May. New York took the largest number of crates, with Mobile second, New Orleans third, Florida fourth, and Galveston out of the reckoning entirely.

The following is a detailed statement of last year's business:

### *Pineapples in Crates.*

[Estimated weight, per crate, 80 pounds; estimated value per crate, \$1.]

1908-9.	Via New York and Cuba Mail Steamship Co. (New York).	Via the Morgan Line (New Orleans).	Via the Munson Steamship Line (Mobile).	Via Peninsular and Occidental Steamship Co. (Knights Key).	Totals by months.
July .....	37,268	1,097	60		38,425
August .....	2,546	436			2,982
September.....	3,329	305			3,634
October.....	2,194	145			2,339
November.....	9,197	1,047	1,055		11,299
December.....	5,782	1,375	3,276		10,433
January.....	13,891	767	2,825		17,483
February.....	15,232	1,095	9,454		25,781
March.....	21,432	4,594	11,441		37,467
April.....	223,442	48,104	78,014	11,760	361,320
May.....	316,621	27,815	82,970	56,742	484,148
June.....	211,910	28,027	18,518	9,700	268,155
Totals by ports.....	862,844	114,807	207,613	78,202	1,263,466

The following is a tabulated statement of crops for the past eight years. Figures given for 1901-2, 1903-4, are for shipments from December 1 to June 30 of those years, respectively. Figures given for 1904-5, 1905-6, 1907-8, 1908-9, are for shipments from July 1 to June 30—that is, for the fiscal years mentioned—as shown in Mr. DANIEL'S records, which are the completest kept.

<sup>a</sup> By I. A. WRIGHT, editor of "Cuba, Capital, and Country," Havana.

Crop.	Destination.	Florida.		Mobile.		New York.	
		Crates.	Barrels.	Crates.	Barrels.	Crates.	Barrels.
1901 and 1902...	Florida ports	3,051	3,682				
	Mobile			16,437	5,738		
	New York					69,421	102,666
1902 and 1903...	New York					449,715	45,443
	New Orleans						
	Mobile			98,474	6,092		
1903 and 1904...	New York					385,885	2,551
	New Orleans						
	Mobile			128,474			
1904 and 1905...	New York					550,324	233
	New Orleans						
	Mobile			115,277			
	Florida	77,559					
1905 and 1906...	New York					737,992	1,013
	New Orleans						
	Mobile			111,127			
	Galveston						
1906 and 1907...	New York					507,823	374
	New Orleans						
	Mobile			98,545	1		
	Galveston						
1907 and 1908...	New York					705,449	527
	New Orleans						
	Mobile			198,860	6		
	Galveston						
1902 to 1908.....	Crop totals as exported	{ 80,610 7,364 }	{ 23,682 }	{ 767,194 23,674 }	{ 11,837 }	{ 3,406,609 305,614 }	{ 152,807 }
	Grand totals in crates per port	87,974		790,868		3,712,223	
1908 and 1909...	In crates by ports	78,202		207,613		862,844	
	Exportation, 1902-09.	166,176		998,481		4,575,067	

Crop.	Destination.	New Orleans.		Galveston.	Crop totals per port.	Grand totals in crates per crop.
		Crates.	Barrels.	Crates.		
1901 and 1902...	Florida ports				10,415	
	Mobile				27,913	
	New York				274,753	313,081
1902 and 1903...	New York				540,601	
	New Orleans	92,296	12,247		116,790	
	Mobile				110,658	768,049
1903 and 1904...	New York				390,987	
	New Orleans	82,510			82,510	
	Mobile				128,474	601,971
1904 and 1905...	New York				550,790	
	New Orleans	83,359			83,359	
	Mobile				115,277	
	Florida				77,559	826,985
1905 and 1906...	New York				740,018	
	New Orleans	95,540			95,540	
	Mobile				111,127	
	Galveston			2,747	2,747	949,412
1906 and 1907...	New York				508,571	
	New Orleans	54,449			54,449	
	Mobile				98,547	
	Galveston			67	67	661,634
1907 and 1908...	New York				706,503	
	New Orleans	45,341	16		45,373	
	Mobile				198,872	
	Galveston			218	218	950,966
1902 to 1908.....	Crop totals as exported	{ 453,495 24,526 }	{ 12,263 }	3,032		
	Grand totals in crates per port	478,021		3,032		5,072,118
1908 and 1909...	In crates by ports	114,807				1,263,466
	Exportation, 1902-1909	592,828		3,032		6,335,584

<sup>a</sup> 1 barrel equals 2 crates.



It is interesting to note in this table the disappearance of shipments by barrel, in favor of the modern method of shipment by crate.

The statement shows, too, the steady development of traffic through Gulf ports. New York has always taken the bulk of Cuba's pine crop for distribution through the eastern United States, but Mobile and New Orleans are capturing increasing quantities of the fruit to supply the growing markets of the Middle and Western States.

One-third of Cuba's pineapple crop is produced in Pinar del Rio Province—the western end of Cuba. Transportation of pineapples constitutes, in the season, a large part of the freight traffic of the Western Railway of Havana.

The following is an estimate of shipping expenses per crate from points along that railway to its station in Havana :

*Pineapples—Expenses to Havana.*

[“ L. C. L.” means “less than carload lots.” “ C. L.” is shipping parlance for “carload lot,” a “carload” of pines being at the least 250 crates.]

Freight per crate to Cristina Station in Havana from—	Payable in American money.		Freight per crate to Cristina Station in Havana from—	Payable in American money.	
	L. C. L.	C. L.		L. C. L.	C. L.
Guane.....	\$0.20	\$0.13	Candelaria.....	\$0.12	\$0.08
Mendoza.....	.19	.13	Punta Brava.....	.11	.07
Sabalo.....	.19	.12	Mangas.....	.11	.07
Galafre.....	.18	.12	Artemisa.....	.10	.07
San Juan.....	.18	.12	Cañas.....	.10	.06
San Luis.....	.18	.11	Dagame.....	.09	.06
Pinar del Rio.....	.17	.11	Alquizar.....	.09	.06
Ovas.....	.16	.11	Guira.....	.08	.05
Puerta de Golpe.....	.16	.11	Gabriel.....	.07	.05
Consolacion.....	.15	.10	Salud.....	.07	.04
Herradura.....	.15	.10	Rincon.....	.05	.03
Paso Real.....	.14	.09	Santiago de las Vegas.....	.05	.03
Palacios.....	.14	.09	Rancho Boyeros.....	.05	.03
Taco Taco.....	.13	.08	Calabazar.....	.04	.02
San Cristobal.....	.13	.08			

In Havana the fruit incurs certain expenses, which may be calculated as follows:

*Pineapples per crate—Expenses in Havana (American money).*

Cartage or wharfage..... \$0.025

If the shipment leaves from Hacendados or Havana Central wharf, no cartage is incurred. If the shipment leaves from Regla, no cartage is incurred, but the wharf there being private property a wharfage charge is levied amounting to \$0.025 per crate; minimum charge, \$1.50 per shipment. If shipments leave from Cabaleria, cartage across the city is incurred.

Handling at wharf..... .01

Lighterage..... .03

Not always incurred.

Brokerage..... .01

This charge varies according to the broker; some charge \$1 per shipment and others \$1.50, and some \$0.03 per crate.

These figures were compiled from the books of Piel & Co. and Gwinn & Olcott, both well-known commission firms in Havana; they obtained in shipments actually made.

The following is a statement of shipping expenses per crate from Havana to the ports named:

*Pineapples—expenses from ship's side in Havana to sale in port named.*

[Per crate; measurement, 2½ cubic feet; estimated value, \$1; weight, 80 pounds.]

Items of expense.	Chi- cago.		New Or- leans.		Mo- bile.		New York.		Pitts- burg.		Gal- veston.		Per shipment (minimum charge).
	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	
Consular invoice.....													\$2.50 required when shipment is valued at \$100 or over.
Freight, Havana to port named.	.575	.575	.36	.36	.36	.36	.35	.35	.675	.915	.40	.40	The Ward Line's minimum bill of lading is \$6; to New Orleans, Mobile, and Florida ports, \$3.25.
Primage.....							.015	.015					The larger the shipment the smaller proportionately is the primage charge.
Custom-house clearance at port of entry.													\$2. Clearance fees vary from \$1 on shipments valued at less than \$100 to \$2 on larger lots.
Duty.....	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	.17	Under the new tariff. Cartage varies with the port; 5 cents a crate is the usual New York charge.
Wharfage at port of arrival.												.02	Commission varies from 7 to 10 per cent of the selling price, the latter figure usually prevailing.
Cartage and commission.												.02	

From these details a prospective shipper would be able to figure out his future transportation expenses, according to the location of his field and the market he selects.

Cuban pineapples have a market all their own. They are put to special uses and are a fruit that is wanted. According to Consul-General RODGERS (Daily Consular and Trade Reports No. 3542, Washington, D. C., July 27, 1909)—

The average price obtained can not be given, but, broadly stated, it could not have been (last season) much over \$2 a crate, as the finer lots in the early season will not usually run over \$4, and in the height of the shipping season they are often sold as low as \$1 a crate. To show a profit for the grower the price in Habana must not be much under \$1.25 a crate, while the exporter or importer who assumes freight, duty, brokerage, and a variety of other charges, can not hope for much if he can not get at least \$2.

The pineapple industry is the direct result of an American demand for the product. It is not Cuban in the sense of ownership, nor of cultivation, the participation of natives being so small in both relations as to be inconsequential.



GROWING PINEAPPLES IN CUBA.



The American market demanding a large and steady source of supply, American capital was invested with that of the Spanish growers, with the result that to-day nearly all the pineapple plantations are owned by Americans and Spaniards and worked by them, although at extremely busy seasons Cubans are employed to some extent.

The product of these plantations, which are located within easy rail or road haul of Habana, is, furthermore, carried almost exclusively to American markets by American ships, furnishing perhaps the best freight emanating from Cuba.

Therefore the action of the American Congress in increasing duty on Cuban pines entering American markets from  $14\frac{1}{2}$  cents to 17 cents per crate was the more deeply resented in this island. American growers, handlers, and consumers are the persons who pay for the protection extended Florida growers.

The increase in duty is not necessarily fatal to the pineapple business of Cuba, but it does narrow the margin of profit—never too wide or too stable.

Growers and shippers sustained heavy losses during the season just ended because the market was overstocked, Cuba's tremendous crop contributing to break it. Small growers (American and Canadian settlers) who had been encouraged to plant pines by the fact that they are a comparatively sure crop and yield their return soon were sufferers.

Growers are hopefully considering the possibility of canning pines, to be sold in bulk to Canada or to England, and they also hope to dispose of much fresh fruit, especially to Canada. The Canadian government recently sent a representative to Habana to study the matter of return cargoes for ships of a subsidized line from Canada to Cuba, and he was impressed with the opportunity the present situation concerning pineapples affords. Certainly, in view not only of recently increased freight rates to the United States and the new duty, but also because Cuba's crops are flooding the market at its best, some reorganization is necessary.



# THE SCENERY OF CUBA, HAITI. AND DOMINICAN REPUBLIC<sup>a</sup>

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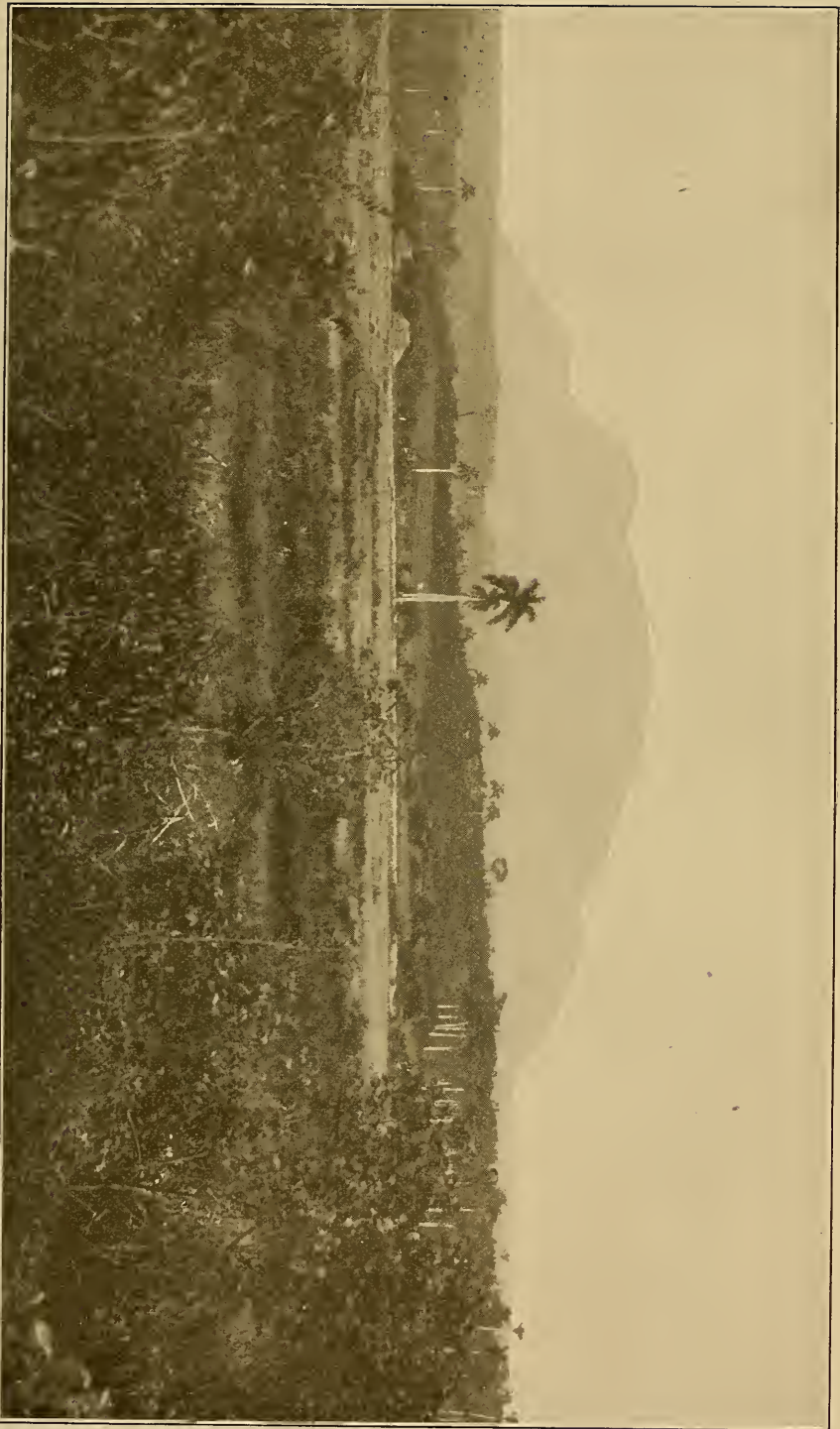
**T**HE island of Cuba—44,000 square miles in area—is truly remarkable for the scenic beauty of its landscapes, its tropical vegetation and bird life, and the historical interest and architectural features of its old Spanish towns and fortresses. Its winter climate comes very near perfection. A painter will wax enthusiastic over Cuban color—the painted houses of the Spanish towns; the women's dresses; the gorgeous flowering trees and shrubs; the brilliant green sugar cane with its delicate mauve-gray blossom; the plumage of Cuban trogons, parrots, cuckoos, kestrels, and starlings; the white, columnar stems of the royal palms; and the unrivaled sunsets. The botanist, ornithologist, anthropologist, and butterfly collector will find material for months of fascinating study.

Havana is probably the most picturesque city in America, not even excepting Cartagena, on the north coast of Colombia; and Cartagena, like Havana, Santiago, and other Cuban and Spanish-American towns, is beautiful enough in color and form to provoke a special school of painters, if landscape painting were not nearly dead under the advancement of photography. The harbor of Havana is entered

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<sup>a</sup> By Sir HARRY JOHNSTON, G. C. M. G., K. C. B. (Reproduced from the "Geographical Journal," London.)

SIR HARRY JOHNSTON was born in 1858, in London, England, educated at Stockwell Grammar School and King's College, and studied painting at the Royal Academy. In 1876 he was medalist of the South Kensington School of Art. In 1879-80 he traveled in North Africa; later, 1882-83, explored Portuguese West Africa and the River Kongo, and in 1884 commanded a scientific expedition of the Royal Society to Mount Kilimanjaro. He has been British vice-consul in Camerouns, acting consul in Mozambique, and member of an expedition to Lakes Nyasa and Tanganyika. For these and other meritorious services in Africa he was knighted in 1890. He has published essays on Uganda Protectorate, River Kongo, Kilimanjaro; has written *History of a Slave*, *Life of Livingstone*, various Blue Books and Reports on Central Africa, *History of Colonization of Africa by Alien Races*, etc., and was the first to demonstrate, by means of hides and skulls in possession of the natives, the existence in Africa of a hitherto unclassified animal, the okapi, somewhat similar to the giraffe, but without the length of neck. His studies have been biological and geographical, and he has received the gold medal from the Zoological, Royal Geographical, and Royal Scottish Geographical societies.



MATANZAS MOUNTAIN, PROVINCE OF MATANZAS, CUBA.

by a deep, narrow strait, commanded by the frowning forts of the Morro and Cabañas. This strait widens abruptly into a magnificent basin; but the sea front of Havana and the approach through the natural canal irresistibly recall Venice—an illusion further fostered by the somewhat gondola-like appearance of the “*guadaños*,” the boats with awnings which ply to and fro over the green water. Curiously enough, the most striking public building of Havana, and that which with the dome reminds one of Santa Maria della Salute at Venice, is a quite recent addition of the Americans—the “*Lonja de los Viveres*” (Produce Exchange). It is difficult to believe that a few years ago this most splendid building of all Havana did not exist. Nowadays it is the heading up of the city, placed with an appreciation of scenic effect so distinguished, as, from our conventional point of view, to be more characteristic of France than of the United States. But those who have seen twentieth-century New York, Boston, Washington, and Philadelphia should realize that in splendor and originality of architectural genius North America is now leading the world.

The American occupation also endowed Havana with its noble esplanade or marine drive, which from the end of the Prado and the low promontory of La Punta (opposite the Morro fort) extends for 3 or 4 miles along the seacoast past the pretty western suburbs of Havana. The same agency has furnished Havana with banks, hospitals, and markets. The streets, narrow and broad, have been paved or asphalted so that their surface is invariably clean; the water supply has been repaired and extended; the mosquito and the flea, with the disappearance of their breeding grounds, have been eradicated; the result being that Havana is now an absolutely healthy town, and from some points of view an ideal place of residence. The Spanish beauty of the city has been left undisturbed, and it is very marked. Most of the old houses present a plain aspect to the street front (except for the beautiful ironwork of the long window grilles), but the arched entrances of the passages, when the massive outer doors are opened, reveal enchanting *patios* of tropical vegetation, fountains, bright plumaged parrots and gaily caparisoned mules or horses. Many of the streets have massive colonnades along one side, in the shade of which a great variety of shops display their wares. The other side of the medal is the much increased cost of living which has prevailed since the American occupation. The dearness of comfortable living in Havana and most other Cuban towns is the only deterrent which can be quoted—besides the sea voyage—to explain why Cuba should not be the principal winter resort of civilized America.

The railways of Cuba are owned and worked by several American, British, and Canadian companies. They extend eastward from Havana to Guantanamo, zigzag across the island from north coast to



south coast, and penetrate also from Havana into the western part of the island, and toward that Isle of Pines, \* \* \* one of the many earthly paradises of the Antilles.

The dominant note in the scenery of Cuba is certainly struck by the royal palm (*Oreodoxa regia*). This is possibly the most beautiful and stately member of a princely order of plants. It is especially characteristic of Cuba, for although found also (sparingly) in Hispaniola and in Porto Rico, it is not native to the other Antilles or to tropical America. It has been so widely introduced into the other West India islands and Brazil that its area of distribution appears at first to be much larger than it really is. But it grows nowhere with such stateliness as in Cuba. The *O. odoracea* or "cabbage palm" of Jamaica is a near relation, but of humbler appearance. The stems of the royal palms are absolutely smooth, rounded-like columns, and a uniform gray-white. The fronds as they wither fall off cleanly, leaving no perceptible roughness or scar; the result is that a row of royal palms looks like a colonnade of white marble pillars crowned with a copious but neatly arranged *gerbe* of glossy green fronds. The greenish—and when ripe, creamy white blossoms (followed by small, shining, reddish fruit) grow out with prim neatness below the sheaf of fronds, just where the white marble column of the stem changes, without transition of tint, into the smooth emerald green midribs of the ascending plumes of the fronds. The royal palm is a fastidiously beautiful thing. We shall yet find the location of the vegetable soul; and we shall then know that *Oreodoxa* is as self-conscious and proud of its appearance as the peacock or the life guardsman.

Nearly every residence or even farmstead in Cuba is approached by an avenue of royal palms, and although they do not precisely grow in forests, still the royal palms permeate Cuba with their stately influence, redeeming the landscapes from any meanness, even where industrialism has aimed at substituting the prosperous sameness of sugar cane, cotton, or tobacco for the variegated color and outline of forest, bamboo thicket, and prairie. Other noteworthy features in the landscapes of the plains and foothills are the brakes of glaucous green palmetto (*Sabal*) and clumps or actual forests of two other types of fan palm belonging to the genera *Coccothrinax* and *Thrinax*. The *Coccothrinax* palms grow to a fair height—40 or 50 feet—with smooth, round, gray stems. *Thrinax* is a much smaller palm with a very slender, perpendicular stem crowned by a great mop head of gray-green fan fronds. Both *Coccothrinax* and *Thrinax* are distinguished from *Sabal* (the familiar palmetto of the Southern States) by their smooth stems, whereas the palmetto retains the dead frond stalks as a defensive *chevaux de frise* from the base of the trunk to

the growing fronds. All three are singularly handsome trees with what might be called an "architectural" beauty.

Huge bamboos (besides dwarf species) grow all over Cuba. The smaller bamboos of the genus *Arenaria* (similar to those of the Southern States) are obviously indigenous, as in Haiti. But a good many botanists maintain that the tall bamboos of Cuba, Haiti, Jamaica, Trinidad, and other West Indian islands are of an introduced East Indian species. If so, this imported bamboo has spread everywhere in these lands till it has become an essential and very beautiful feature in the scenery.

An indigenous plant which arrests one's attention in Cuba from its striking appearance is the cycad, which grows so commonly by the roadside or at the thresholds of the cottages, no doubt planted by the natives for its handsome appearance.

Above 2,000 feet (ordinarily) the Georgian pine makes its appearance, where it has not already been destroyed by reckless wood cutting under the Spanish régime. In the island of Pines this handsome and valuable conifer grows as low down as 500 feet altitude above sea level.

Where the land has not been cleared for plantations, or its elevation (below 3,000 or 4,000 feet) does not induce a temperate climate, the surface of Cuba is still clothed with dense tropical forest, in which the Cuban mahogany and ebony trees and a good many examples of the flora of Central America are met with. These forests mostly linger in east-central and eastern Cuba. They are being somewhat ruthlessly cut down by lumber concessionnaires. The Government of the Cuban Republic is not yet sufficiently awake to the importance of preserving forests in due measure for the climate and the amenities of scenery. There is a feature in the Cuban woodland which at once attracts the attention of the tourist coming from the north, and new to the American Tropics, namely, the large number of aërophytic or epiphytic growths on the branches and trunks of big trees. These consist of lizardlike fig trees, which eventually strangle their host; of members of the pineapple family (Bromeliaceæ); of cacti, aroids, orchids, and ferns. In Cuba the commonest growth on the trees is a pretty aloelike *Tillandsia*, with a spike of reddish-yellow buds, disappointing in that they barely open their petals.

This epiphytic growth begins in the forests of the Southern States in the form of the celebrated "Spanish moss." Few people seem to be aware that this extraordinary growth is not a "moss" or a lichen, but belongs to a genus (*Tillandsia*) of the pineapple family. It is one of nature's best jokes, for on the opposite side of the Atlantic, in Africa, we have a real lichen—*Usnea*, "old man's beard"—which grows as a parasite on trees in the upland forests exactly in the fashion and with precisely the same color and general appearance as the



PALMS AND OTHER TROPICAL VEGETATION IN CUBA.

*Tillandsia usneoides* of the United States, Cuba, and the elevated regions of the Antilles and Central America. But *Tillandsia* betrays itself as a phanerogam and monoctyledon by its small blue flowers like those of the pineapple.

The moister climate of the Antilles makes them less suited to cactus growth than the arid regions of the United States and of Mexico. Still cacti enter considerably, and picturesquely, into the scenery of eastern Cuba, especially on sandy flats, which are the recently raised beds of former estuaries or lakes. Here the tall cacti, especially of the genus *Cereus*, offer a striking parallel in appearance and rôle to the African euphorbias. Like them they rise up out of the barren, sun-smitten waste, and serve as a shelter and a nucleus for other vegetation, thus in time creating oases of forest.

The rivers of Cuba, though seldom offering much facilities of navigation (except, perhaps, the case of the Rio Cauto of eastern Cuba, which has a navigable course inland from its mouth of about 40 miles for small boats), are remarkable from the point of view of scenery. Their upper courses are a succession of boiling rapids and snowy falls, as they tear down through the splendid forest of the hills and plateaus. The bed of each river (away from the alluvial plains) being usually bare limestone; the color of the water is a lovely greenish-blue. Sometimes they flow over a long series of abrupt steps in the rocks, exactly like the formal descents of artificial cascades. When they have reached sea level they meander through swampy forests of South American luxuriance, or create vast swamps which are jungles of reeds, rushes, and "water-hyacinths," and the home of countless herons, tree-ducks, pelicans, darters, rails, and jaçanás. The south coast of Cuba, away from the eastern prolongation, possesses more swamp lands of great extent than the northern part of the island. Zapata swamp, in the south of Cuba, is over 2,000 square miles in area. This region is, or was, the breeding ground of myriads of white herons (egrets); and here, in spite of native and American gunners, urged on a career of abomination by the misplaced taste of forty millions of unthinking American and European women, the beautiful white *Ardea egretta* is sufficiently numerous to be quite a feature in the landscape. In the swamps and river estuaries of Cuba there are two species of crocodile—*C. rhombifer* (peculiar to Cuba) and the widespread *C. americanus (acutus)*. In spite of the loose statements of writers, I believe there is no alligator and no *caïman* in any West Indian island.

Cuba, Hispaniola (Haiti), Porto Rico, and Jamaica (besides the Bahamas, Virgin Islands, the northern Leeward Islands, and Barbados) are entirely without poisonous snakes.

\* \* \* \* \*

These last, be it noted, are absolutely unconnected in the affinities of their reptilian fauna with Florida and North America, but offer

some relationship to southern Mexico and Central America. These indications as to past land connections or approximations are further borne out by plant, bird, spider, fish, and mammal distribution, showing that the Greater Antilles have had no nearer neighborhood with the *North* American continent since the middle of the Secondary epoch (if then); that their least ancient land connection (? early Tertiary) has been with Central and not South America; and, finally, that they to some extent shared with Tropical America a connection with or approximation to West Africa perhaps as late as the beginning of the Tertiary epoch.

\*            \*            \*            \*            \*            \*            \*

In Cuba, as in Hispaniola, the domestic pig has run wild, and developed into a lean, long-legged, miniature wild boar. The forests, moreover, of Cuba and of Haiti are full of deer. These I found to be simply roebuck, with, in the male, rather fine antlers. I also saw in Cuba (semidomesticated) North American deer from Florida or Louisiana, or brocket deer from Venezuela. But the roe is the prevailing type, and is commonest in the mountainous districts of the east. The history of this introduction is that the French first of all brought the roe from France to Martinique; then, as they throve there, the roedeer were carried on to Haiti and Santo Domingo, whence the French or Spanish introduced them into Cuba.

\*            \*            \*            \*            \*            \*            \*

Peacocks are abundant as domestic birds in Haiti. It is surprising they are not kept also in Jamaica and Cuba.

Of course, the right and proper thing to do in the Greater Antilles would be to populate the wastes and woods, not with the birds and beasts of Europe, Asia, and Africa, but with those of Central and South America—to finish the task that nature heedlessly left unfinished. The magnificent ocellated turkey of British Honduras should be introduced in large numbers into Jamaica, Cuba, and Hispaniola; jaguars should be placed in small game reserves; tapirs be encouraged to roam where they willed; the roedeer should be replaced by the South American red brocket; and a discreet selection of American monkeys and macaws be given a new lease of existence in the Antillean forests.

As it is, Cuba and Jamaica possess the material for some very lovely national parks and bird reserves in the partially land-inclosed, islet-studded lagoons and gulfs along the northeast and southwest coasts of Cuba and the south coast of Jamaica. Here there are already wonderful sea gardens where, as in a huge aquarium, may be studied the life history of sponges, anemones, crinoids, polyps, and strange crustaceans; where the tourist may gaze fascinated from the clean coral rocks at the marvelously colored fish of the West Indian sheltered waters. In the air above, frigate birds, phaetons,



TOWN OF MILOT, HAITI, WHERE CHRISTOPHE BUILT "SANS SOUCI."

and gannets are wheeling and poising; on the still waters there are many pelicans and flamingo; indeed, the boldly marked dark-gray, white, and lemon-tinted *Pelicanus fuscus* is very tame, and delights to perch in a spirit of Japanese art on the fishing stakes or navigation beacons. Birds form a very prominent element still in Cuban, Haitian, and Jamaican landscapes, though, unless strict measures be taken by the respective governments, the trade in feathers and the rush of ignorant, slaughter-loving tourists will soon eradicate this beautiful element in Antillean life. The parrots in all these islands are becoming scarce—the Jamaican macaw is practically extinct—but the little green todies (with crimson breasts) are still as tame as robins, and the humming birds will continue to buzz round the blossoms until they are finally extinguished by the plumage hunters. It is supposed that Cuba possesses the smallest humming bird in the world—*Calypte helena* (named after Princess Christian); but it may have a rival in tininess in a Peruvian species of *Acestrura*. The *Calypte helena* is an exquisite little creature not quite  $2\frac{1}{2}$  inches long, with a forked crimson gorget. Its nearest relations are in southern California.

No one visiting the forests of eastern Cuba can readily forget his first sight of the trogon peculiar to Cuba—the *Prionotelus temnurus*. It is not difficult to watch it at close quarters in its favorite resorts, sitting on a bough with upturned head, displaying its white shirt front and gorgeous crimson scarlet stomach, and uttering at intervals a low and singularly musical cry. The Cubans call it “tocoloro.”

\* \* \* \* \*

The great landed proprietors often dwell in marble palaces near their sugar plantations, which recall the most sumptuous dwellings of Andalusia. What a beautiful thing is the lush growth of the tall sugar cane—the brightest emerald green, flecked with plumes of mauve-gray blossom.

Not one of the old Spanish towns of Cuba but is a source of inspiration to a painter. Let me cite two examples: Camagüey in the north center and Santiago de Cuba in the southeast. Camagüey is nearly 400 years old as a Spanish city, but it was a place of Indian settlement for a long antecedent period. It is the “all white” town, where the 60,000 inhabitants are for the most part of pure Spanish descent, and the handsomest people in Cuba. No town in Spain is more “Spanish” or more picturesque, with its narrow streets, projecting balconies screened by carved wood or iron grilles, tiled roofs, thick walls, patios glowing with sunlit vegetation, its sixteenth and seventeenth century cathedral, churches, chapels, monasteries, and convents. The steeples and doorways of some of these churches (and of a good many Cuban buildings generally) almost suggest the Moorish influence in architecture which prevailed in southern Spain down to the

period of COLUMBUS'S voyage. Several of the ecclesiastical buildings of Camagüey contain magnificent altarpieces and shrines of hammered silver.

In Santiago, the eastern capital of Cuba, and now one of the most beautiful places in the world, the solidly constructed houses (the Spaniards, among many great qualities, had that of building appropriately and permanently) were painted in tempera almost every attainable tint, combined with white copings, window frames, doorways, parapets, and skirtings. One house is ultramarine blue (and white), another dull mauve (and white), or pale green, maize yellow, pink, terra cotta, sky blue, greenish blue, apricot, gray-brown. The effect, combined with the fronds of palm trees and bananas, the dense foliage of figs, ilexes, mimosas, orange trees, and giant laurels, the brilliant flowers of bushes and creepers, the brown-red tiled roofs, the marble seats and monuments, the graceful balconies, the white stone colonades, the blue waters of the harbor, and the magnificent encircling mountains, was daring, but eminently successful.

\* \* \* \* \*

I said good-by to Cuba under a sunset of crimson and gold.

\* \* \* \* \*

After a rough passage across the 60 or 70 miles of strait between the two islands, Haiti received me in the blue and silver of placid water, girdled with lofty ranges of mountains wreathed or crowned with white clouds. The open arms of Haiti are two peninsulas of alpine heights that inclose a vast gulf of sheltered sea screened from rough winds and vexing currents. Nearly in the middle of the Gulf of Haiti arises, to over 2,000 feet, the large island of Gonaive, purple with woodland or scrub, green with crops, and slashed here and there with squares of red clay or the gleaming yellow-white of the underlying limestone. This island affords further protection from such winds as are not sufficiently broken by the sierras of Haiti (7,000 to nearly 9,000 feet high) or by the lofty ranges of eastern Cuba. So that the Gulf of Haiti, and most of all its easternmost half, would make the safest and amplest naval station in the world. A million years ago (or less) the great southern peninsula of Haiti and the southwesternmost portion of Santo Domingo were a long mountainous island, cut off from the rest of Haiti by a narrow strait connecting the Gulf of Gonaive with the Bay of Neiba. At the present day the ford is dry land for more than half its surface, and inclosed water (salt and fresh water lakes) for the remainder.

Port au Prince, the capital of Haiti, is placed near the southwesternmost edge of this isthmian plain, the *cul-de-sac* of the old French colonists (just where the last spurs of the southernmost mountains descend into the inland sea). In daylight, viewed from steamer



deck in the outer harbor, it does not present a poor appearance. This is largely due to the magnificent new cathedral, which is placed just where such a building should be situated to give a focus to the town. Without this cathedral (of French design and Belgian construction) Port au Prince, two or three years ago, must have presented a somewhat paltry appearance for a great capital city. The other notable buildings are seldom remarkable for stateliness of design or prominence of position, though there are some handsome churches. On the left-hand side of the town is a low promontory, or jetty, composed chiefly of mangrove mud banks and stranded, rusting, paddle-wheel steamers. This spit of land culminates seaward in a low lighthouse surrounded by a battlemented fort. Far to the right are more low mangrove islets, but behind the actual shore line the land rises rapidly into green highlands, studded with fantastic palaces, and the highlands enlarge into mountains of almost Alpine character. On the sky ridges of these may be seen from the shipping in a harbor of intense tropical heat the silhouettes of the tall pine trees, which indicate a land of cool invigorating temperature within half a day's climb.

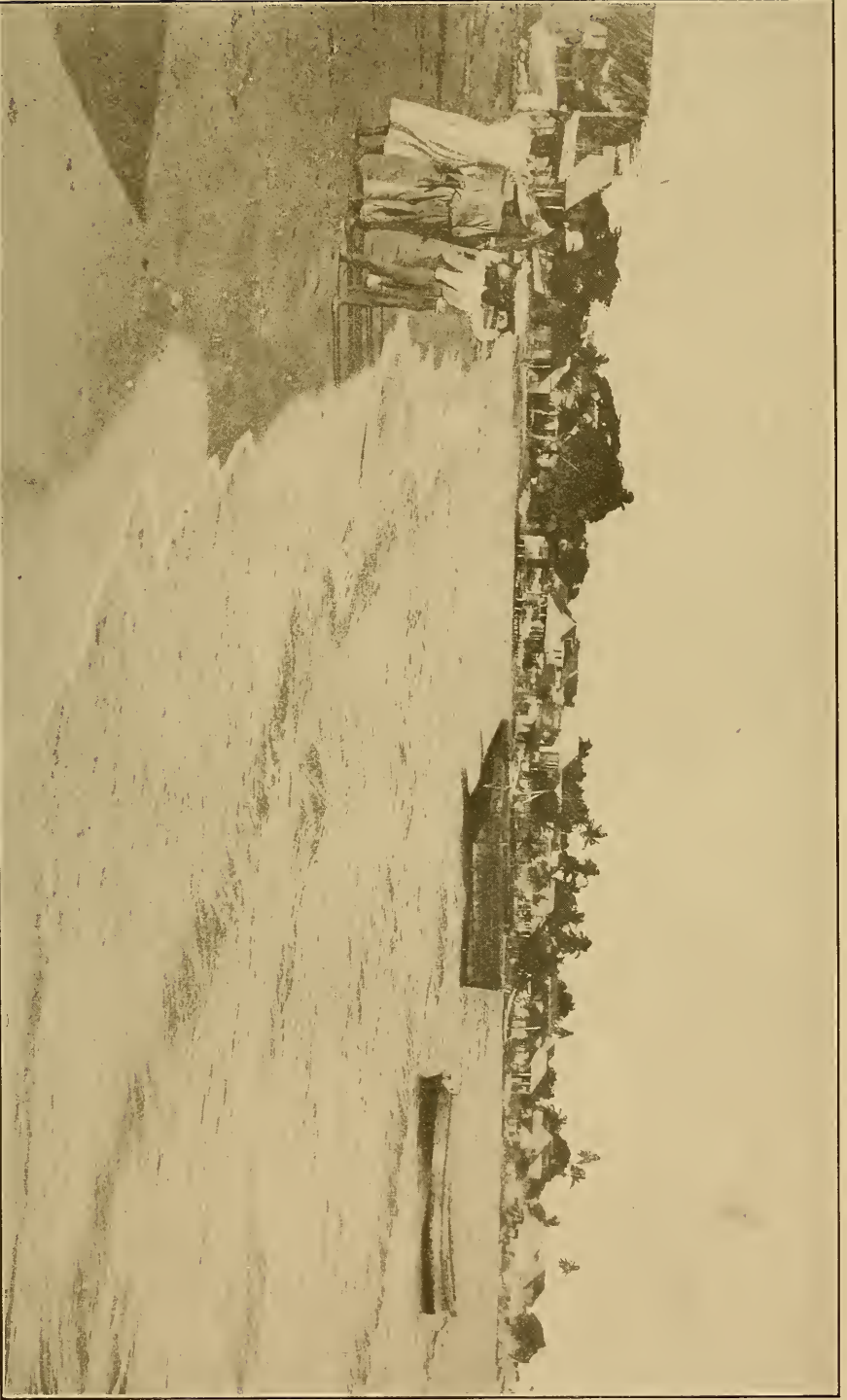
I first saw Port au Prince in the late evening, and the effect, after the brilliant variegated lighting of Cuban and American towns, was disheartening. We might have been approaching some sullen, pirate capital of Haiti two hundred and fifty years ago, desirous of offering no attraction or assistance to the inquiring stranger. A few dull yellow lights blinked from the dense foliage of the suburb. Here and there a glowing red lamp seemed to indicate danger. Port au Prince, with its suburbs, is a city of 104,000 inhabitants, and is the capital of an independent State of nearly 12,000 square miles in area.

When one lands here in the morning (steamers may not communicate with the shore after sunset) the impression is less unfavorable, though docks and wharves are absolutely nonexistent, and landing from or boarding the steamer means a long and weary row. But it is obvious that Port au Prince—thanks to German, American, and Haitian enterprise—has made considerable strides of late toward the amenities of life. It is true that in dry weather the streets near the seaside are occasionally intolerable with their clouds of malodorous dust, that there is no continuous sidewalk along any of the streets, and that, with the exception of about half a mile of recently macadamized roadway, the paving of the streets is monstrous in its grotesque imperfections. But the houses are by no means uncomely, nor is the town nearly so dirty as it was described by various writers down to the year 1900. Either they exaggerated or their criticisms stirred up the civic authorities of Port au Prince to effect considerable improvements in the cleanliness of the streets.

A welcome surprise which greets the visitor to Port au Prince who arrives from any other part of America, not excepting Jamaica and the other British West India islands, is the far greater cheapness of living. The President's palace, situated with its surrounding garden on one corner of the extensive Champ de Mars, is a turreted, verandaed erection, apparently roofed and faced with corrugated iron, or with some cold, gray, glistening metal. But the general appearance is not unpleasing, though a little "baroque," especially when in times of festivity it is extravagantly decorated with the blue and red Haitian colors. But the so-called "garden" which surrounds it is a dreary trampled waste perpetually paraded by soldiers. Not far away is the range of government offices, all in one building. In front of this, painted a gaudy red and blue, is one of those extraordinary rostrums found in every town in Haiti, large or small, whether dating or not from the time of the French colonization I do not know. From these open-air pulpits addresses are made to the populace, and laws are proclaimed. The Champ de Mars has, no doubt, been much improved of late, and may even in time be made an open space of agreeable appearance. At present it consists of irregular patches of turf, crossed in many directions by roads authorized and unauthorized, some of which are macadamized.

The houses in the suburbs of Port au Prince are for the most part built by Germans, and are really tasteful in their architecture, cool, comfortable, and surrounded by beautiful gardens. The public cemetery, on the other hand, is a staggering mixture of beauty (vegetation and the old tombs), grotesqueness (the modern miniature houses and goblin huts erected to house the deceased), and horrors.

Port au Prince possesses market buildings which are worthy of Paris in size and design, but the mass of the country people prefer to establish themselves in open-air market places away from the great buildings erected for their use. In these open-air markets there is endless material for the painter or photographer. The sellers are mainly women, who have journeyed into Port au Prince from the country, riding sideways on donkeys, horses, or mules, situated, it may be, on the top of enormous panniers of provisions. Nearly every woman wears a large and picturesque straw hat, fastened by a leather band under the chin that ends in little twiddles of leather so absurdly resembling the pointed chin beard of the negro man that the market women look like men dressed in women's clothes. These clothes are always ample and picturesque, usually blue cotton, or else gay prints with many flounces. Some of the women in the market place are selling fish which an artist would purchase for their colors alone. They look like the *poissons d'Avril* in Eastertide shop windows—such combinations of blue and orange, scarlet and mauve, yellow and black, pink and green. Other venders are surrounded by a troop of teth-



Photograph by Miller.

A PICTURESQUE BEACH AT JACMEL, HAITI.

ered turkeys, fine, plump fowls, or Muscovy ducks. Goats, sheep, cattle, and pigs wander where they please. Pigeons and an occasional green parrot lend variety to the immense crowd of humans, beasts, and birds.

One curious point about Port au Prince and the whole of Haiti and Santo Domingo is that the turkey buzzard (*Cathartes*) is entirely absent, a strange contrast to all the other West India islands and the southern United States. Haiti has no other scavengers but pigs and dogs.

The water supply of Port au Prince is grumbled at by the residents, but though it may not be as perfect as tradition relates it was under the French Government, it seemed to me to be very much better than in many other West Indian towns I have visited. Some of the fountains are very picturesque, and obviously date from the French period of over a hundred years ago. All over this large town there was an abundant supply of good, fresh water for the poor as well as the rich, and the drinking water usually served one in hotels and private houses seemed to me pure and good.

Port au Prince is always hot, often dusty, and a good deal afflicted by mosquitoes. It has many other faults, no doubt, and yet it is not half a bad place. Ice is abundant and cheap. There are at least two good newspapers, one of which gives a very ample supply of European cablegrams. It is a noisy place; the dogs are perfectly sickening in their midnight howlings, alarms, and excursions; there is too much military music, and on festivals people let off guns and fire crackers. And yet it is one of those places that by a strange inconsistency one is sorry to leave and glad to return to. The educated Haitians, however they may mismanage their public affairs, are most agreeable people to meet in society—witty, amusing, well-read, except in the natural history and botany of their own country. There is a very pleasant club where the European and American residents meet the natives of Port au Prince, and a delightful friendship seems to exist amongst all the foreign residents.

I have referred to the German suburban residences of Port au Prince, especially those which lie on the southeast of the main town. But perhaps the most beautiful district within easy reach of the capital is round about Diquiny and Bizoton. The railway runs along the shore road from Port au Prince to the vicinity of these outlying burghs, and there is as well a fairly good carriage road, with picturesque old bridges over the innumerable streamlets that come tearing down from the mountains. Here, between Port au Prince and Leogane, many of the beautiful country seats are little more than modernized reconstructions of the estates of the French planters. The district is musical with a never-absent ripple of falling water, and the extravagant tropical vegetation is reduced to orderly pictures by

masonry runnels and conduits of the old French irrigation systems. Probably nowhere else can one see such a complete riot of brilliant color. The clouds, attracted by the high mountains, are always a feature in the landscape—dazzling white cumulus at noonday, becoming flamingo red in reflection of the sunset. The high mountains are purple-gray. The sea of the Gulf of Haiti is the most brilliant blue-green. The distant town of Port au Prince is pink and white and gray. Around the many-colored houses are groves of crimson-scarlet Poinsettia or smalt-blue *Petraea*, together with roses, oleanders, allamandas, hibiscus, and a hundred and one flowering shrubs and creepers of the tropics. As to the foliage trees, there are royal palms and fan palms, trees unknown to me with huge glossy leaves like magnolias, the primly perfect mahogany trees, the Haitian oak, mimosas, flamboyants. In this region is indeed an earthly paradise, with the delectable mountains behind, up which, if you choose, every morning you may ride to the pine ridges and the air of Europe.

Every square mile of Haiti, I should think, is beautiful, or at least is interesting. The greater part consists of masses of incredibly tortured mountains. No doubt in the far distant past it has been the scene of volcanic energy. Yet there is not much actual area covered with lava or igneous rock. For the most part the formations seem to be of limestone, a limestone which in places is such a pure cold white as to look like snow. In the very high mountains, nearly 9,000 feet, the hasty observer might well be excused for believing that he saw vestiges of snow in the crevices or deep clefts of stream valleys. In reality it is due to the rush of water from the summits, which tears away the surface soil and reveals the limestone. In the dry season many a river valley is blazing white with its tumbled masses of chalky stones and pebbles.

The plains of Haiti occupy but a small portion of its area, and they are usually fertile, or could be rendered so by irrigation. Where they are uncultivated they are overgrown with a low scrub of very thorny mimosa and logwood, but even this is rendered tolerable by the highly scented yellow blossoms and by the clumps of weird-looking cacti. Here in this low-lying country are specimens of arboreal cactus worthy of Mexico. A form of prickly pear (*Opuntia*) grows to a height of about 30 feet in a solid stem, and pushes out in all directions great pudgy hands of flattened leaf stalk, studded (as though with giant rubies) by red flower buds or blossoms, and having a strange resemblance to some Hindu god or goddess with innumerable hands. A species of *Cereus* (bristling with white thorns) grows in erect columns. Another and thornless *Cereus* is so grotesque in the pointing of its fat gouty fingers that it, together with another writhing, snake-like arboreal cactus, might be the fit surroundings of an enchanter's cave in a pantomime. Perhaps, however, the most beau-

tiful item in the vegetation of the plains and mountains of Haiti (ranging from sea-level to 7,000 feet) is the agave with its basal cluster of immense, bright green lily leaves and its flower stalk 20 to 30 feet in height tufted with clusters of golden-yellow blossoms. In and out of the corollas of these golden flowers dart woodpeckers of crimson, black, and gold, starlings of black and silvery yellow, metallic humming birds, innumerable small quits of variegated tints. Hovering over these and occasionally making a successful dart are small kestrels of bright chestnut-orange and dove-gray, with bars and splotches of deep black. Haiti, in fact, is full of interesting bird life, and should be a great field for the ornithologist, as its ornithology is only partially known and studied. COLUMBUS noted the abundance of bird life when he discovered this great island, and referred especially to the songs of the nightingales. These are really mocking birds, apparently the same as the American species.

The scenery of Lake Azuey is perfectly beautiful. Its salt waters are of an intense blue-green, and the surrounding mountains, clothed with forests of *lignum vite*, of glaucous green fan palms, and on the extreme heights of Georgian pines, rise to altitudes of 6,000 to nearly 9,000 feet. At its eastern, Dominican, end is a colony of the scarlet American flamingo.

And what may not be said in detail about the Haitian mountains? The highest (Mont de la Selle) is a few feet under 9,000, but the ridges rise so abruptly from sea level or from the tremendous gorges which separate one massif from another that you get the full value of their height. They have been carved by water, sun, and wind into the most exaggerated relief, and many of their crevices are illuminated by the fissures of limestone. Here and there is a curious intrusive hummock of bright red clay, only partially revealed because of the exuberant vegetation. This again assumes so many tints owing to the season or the sunlight that the Haitian hillsides frequently resemble a turkey carpet with their scrub of scarlet fuchsia, rose-pink honeysuckle, intensely green bracken and maidenhair ferns, and the mauve and white of certain *Compositæ*, the purple of many labiates, the yellow and silver of everlasting flowers. The large white blossoms of the local blackberry (which has a most delicious fruit the size of a mulberry) should not be omitted in describing this beautiful mountain scenery.

In the dells of the mountains, about 4,000 feet, are handsome jungles of tree ferns. Everywhere grows the glossy green agave, with its lofty column of gold flower clusters. The aromatic scent of the pine woods is indescribably good to the jaded European exhausted with the Tropics:

And nearly everywhere, except on the highest peaks and ridges, may be seen the picturesque and happy peasantry—happy if dwelling far enough away from the oppression of the town governments. Wherever there is a fairly level patch or plateau there is a collection of thatched huts surrounded by an emerald grove of bananas, and by fields of maize, sorghum, cabbages, and sugar cane. The country swarms with domestic birds and beasts—horses, donkeys, pigs, dogs, cattle, goats, and sheep, turkeys, fowls, and guinea fowls. The peasants usually wear clothes of blue-dyed cotton and huge straw hats. The dress of the men is a blue gaberdine and trousers; that of the women is a loose robe not unlike the Egyptian costume.

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The scenery of such parts of the Dominican Republic (Republica Dominicana) as I was enabled to have a glimpse of naturally resembled that of Haiti. I am informed by Americans that the landscapes of the auriferous Cibao range of mountains (highest peaks averaging 10,000 feet) were surpassingly grand and the pine forests more abundant than in Haiti. The highest point in the whole of the Antilles seems to occur in Santo Domingo—the Loma de la Tina. This apparently has never been ascended, and its guessed-at altitude (10,300 feet) has not been as yet confirmed by the American surveys. In the more northern part of the Cibao range is the striking peak of Yaqui, about 9,700 feet.

The Spanish civilization of the Dominican Republic, which has an area of nearly 18,000 square miles, gives a picturesqueness to town or village life which is quite different to the colonial French or purely negro aspect of inhabited Haiti. The gamecock is everywhere much in evidence. There are some negroes in Dominica, but the mass of the population is of Spanish or mixed Spanish-Amerindian origin—a handsome, well-set-up, grave, virile-looking people of olive or pale yellow complexion. The Americans, who are giving a general direction and advisory control to Dominican affairs, are effecting wonders of happy and wise development in the exploration, communications, industries, and commerce of Santo Domingo. Their customs officials and surveyors are of the best American pioneer type.

# A UNIQUE ERRAND

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**M**R. JAMES DANGERFIELD, of London, as Commissioner of the British Institute of Social Service, and Dr. JOSIAH STRONG, of New York, President of the American Institute of Social Service, propose to visit South America during the coming fall and winter for the purpose of organizing like institutes in the principal cities.

The first institute was organized in New York in 1898. In 1903 President ROOSEVELT, an associate member, wrote:

This institute is fitted to render a great and peculiar service, not merely to this country, but to all countries. Apparently it is proving to be the beginning of a world movement, and is being recognized by the best men of many different countries as a necessity in each and all of these countries in order to facilitate the readjustment of social relations to the new conditions created by the modern industrial revolution.

This prophecy is being fulfilled. The American organization has already served as a working model for British, Swedish, Danish, and Italian institutes of social service; and the President has been invited to organize institutes in Germany, Russia, Spain, Turkey, South Africa, India, China, and Japan.

The proposed visit to South America by Mr. DANGERFIELD and Doctor STRONG is the beginning of a world tour for the purpose of organizing institutes in every important country in response to a need as wide as modern civilization.

In discussing the trip, Doctor STRONG has said:

The industrial revolution, which is destined to invade all countries, creates new conditions of life and consequent problems which can be solved only by a readjustment of relations. This process of readjustment is one of experiment; and many experiments are being made in philanthropy, in charity, in education, and in all forms of human activity. The object of the institute of social service is to gather together the results of these many and varied experiments, so as to create, as it were, a common fund of human experience, free to all alike, and which will enable each to profit by the experience of all, thus repeating the successes and avoiding the blunders of others. The institute is, accordingly, characterized as a social clearing house, or "a clearing house of human betterment."

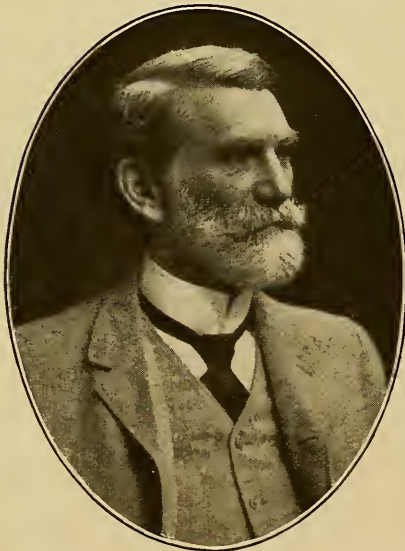
Generally society readjusts itself to new conditions much as plants and animals readapt themselves to a changed environment, i. e., unconsciously and, therefore, unintelligently. The institute aims to make this needed readjustment conscious and intelligent, thus at the same time quickening the rate of human progress and reducing its cost.

Science is common property. A discovery made in one chemical laboratory at once becomes known to all such laboratories throughout the world. Civilization is also common property; and the institute of social service is intended to be a clearing house of civilization which acquaints every people with the ways in which other peoples are solving, or trying to solve, their common problems. Is not this system, which enables each to profit by the experience of all, the science of collective living?

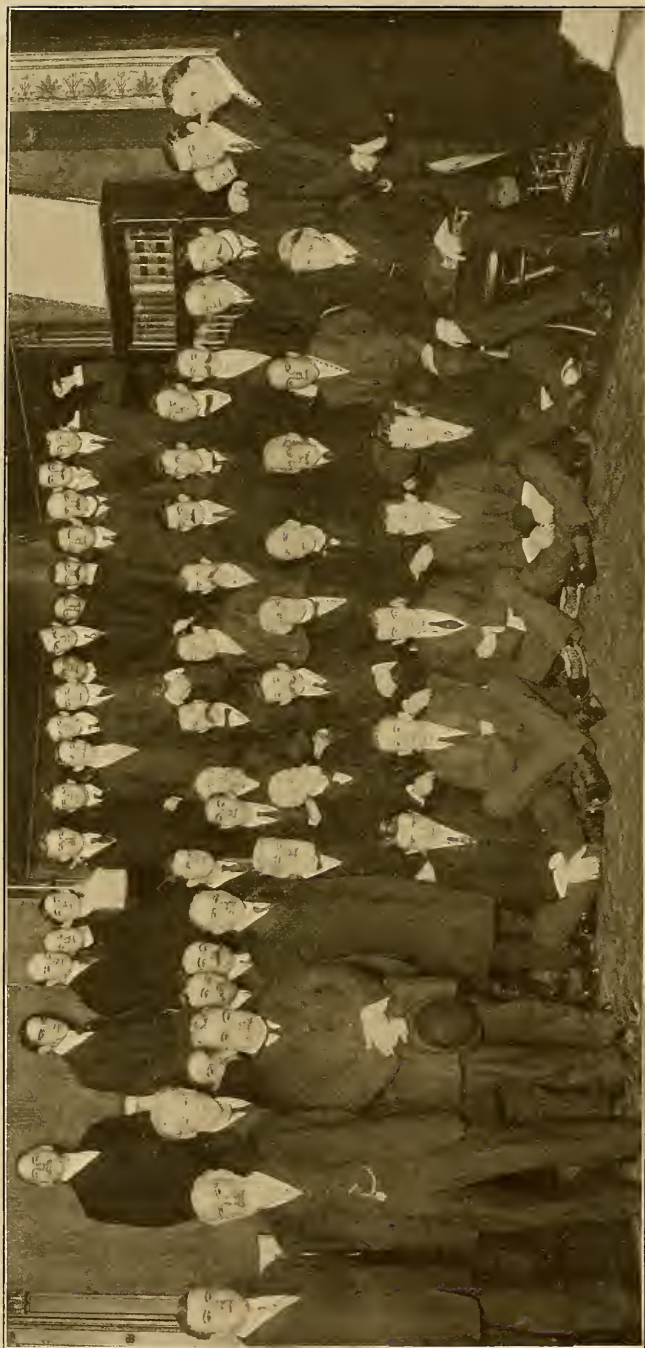




JAMES DANGERFIELD, ESQ.



DR. JOSIAH STRONG.



CHARTER MEMBERS OF THE UNITED STATES UNIVERSITY CLUB AT BUENOS AIRES, ARGENTINA.  
Photograph taken August 4, 1909, at the Legation of the United States of North America.

# UNITED STATES UNIVER- SITY CLUB IN BUENOS AIRES

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**T**HROUGH the initiative of the United States Minister to the Argentine Republic, Hon. CHARLES H. SHERRILL, a University Club is to be organized in the Argentine capital, embracing in its membership former students at United States colleges and universities.

At the first meeting held for the purpose of organization at the Legation of the United States in Buenos Aires, there were present 66 gentlemen representing more than 39 institutions of learning in the United States, including Harvard, Yale, Cornell, Columbia, Pennsylvania, Dartmouth, Williams, Brown, United States Naval Academy, Chicago, Holy Cross, Pennsylvania College, Ohio Wesleyan, Massachusetts Institute of Technology; universities of Illinois, Michigan, Chicago; New York College of Dentistry, Bates, Dickinson, Mount St. Mary's College, Albany Medical College, Pratt Institute, Northwestern, Bucknell, Drexell Institute, Butler University, German Wallace College, Iowa College, and others.

The United States Minister to the Argentine Republic, Yale, 1889, was elected President, and Mr. CHARLES LYON CHANDLER, Harvard, 1905, Secretary. An Organizing Committee was also appointed, consisting of Mr. SAMUEL HALE PEARSON, Dr. LUIS HUERGO, and the President and Secretary ex-officio.

In his introductory address Mr. SHERRILL spoke of the great esteem in which the name of ex-President SARMIENTO was held by all university graduates in the United States of America because of the immortal and glorious service rendered the Argentine Republic by him in regard to education, and because of his encomiums of the United States and its system of education and also because of his having brought to Argentina a considerable number of American teachers to establish an identical system here.

This act alone, said Mr. SHERRILL, warranted the establishing in Buenos Aires of a United States Universities Club. But the formation of this club was not only a duty; it was also a great source of pleasure to all to renew their memories of their college days.

The following attended the meeting:

Hon. Charles S. Sherrill, Yale, 1889; Charles S. Wilson, Harvard, 1897; Warren Delano Robbins, Harvard, 1908; Charles Lyon Chan-

dler, Harvard, 1905; A. d'Alkaine, Harvard, ex. 1903; Alberto E. Blanchard, Bates, 1886; Albert Burnstine, Naval Academy, 1885, and Michigan, 1888; Rev. E. N. Bauman, German Wallace, 1903; Charles E. Bowers, ex-Technology, 1894; W. J. Burner, Butler University, 1900; Robert Fulton Blake, Harvard, 1899; Rev. S. P. Craver, Iowa, 1871; P. A. Clisdell, Cornell, 1890; Vicente Cacares; Everitt M. Cooper, Columbia, 1903; Rev. S. D. Daugherty, Pennsylvania College, 1888; Graham Dewey, Harvard, 1889; Fco. P. Dollinger, University of Illinois, ex. 1908; Warren K. Dunn, Cornell, 1904; Dr. John S. Dillon, Albany Medical College, 1864; J. C. Ecclestn, Bucknell, ex. 1887; C. J. Ewald, Michigan, 1901; Ralph W. French, Harvard, 1907; Oliver Foster, Dartmouth, 1900; Lorenzo P. Garahan, Ohio State, 1908; F. I. Goldsmith, Columbia, ex. 1909; Edmund P. Graves, Technology, 1878; Sutherland R. Haxtun, Columbia, 1888; Ing. Luis A. Huergo, Mount St. Mary's, 1852-1857; Dr. James P. Kelley, Holy Cross, 1876; J. M. Laurencena, Ohio State, 1906; Rev. William P. McLaughlin, Ohio Wesleyan, 1871; Rev. W. E. Myers, Dickinson, 1902; John Milne, Brown, ex. 1901; Wilfrid H. Munro, Brown, 1870; Alexander E. Murray, Drexel Institute, 1900-1904; Arturo Moje, C. E.; Ing. Jorge Newbery, Cornell, 1896; R. E. Paine, Dartmouth, 1902; Dr. Homer L. Prettyman, Northwestern, 1900; Julio Reyes, Chicago Veterinary College, 1908; Bertram A. Shuman, Hamline, 1898; H. L. Solyom, Columbian, 1902; Pemberton Smith, Rensselaer Polytechnic, 1888; Dr. Carlos Musgrove Stetson; Alejandro Soriondo, jr., Boston University; Dr. S. R. Sommerville, New York College of Dentistry, 1881; Dr. John Stuart, Chicago, 1900; Oscar G. Sumay, University of Illinois, ex. 1909; Hugh B. Tabor, Dartmouth, 1896; Dr. John F. Thomson; Louis Newbery Thomas, Pratt, 1897; Fermin Urrutia, Cornell, 1908; F. Arthur Webster, University of Pennsylvania, 1900; Frank A. Wardlaw, Columbia, ex. 1884; T. A. Whitworth, University of Missouri, ex. 1879; George O. Wiggin, ex. Massachusetts Institute of Technology, 1894; Arthur F. Winslow, Williams; Louis F. Young, Brown, 1902; and others.

All communications in regard to club affairs should be addressed to Mr. CHARLES LYON CHANDLER, Secretary, 612 Calle Suipacha, Buenos Aires, Argentine Republic.





ECUADOR.

# THE FLAGS AND COATS OF ARMS OF THE AMERICAN REPUBLICS . . . . .

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## ECUADOR.

**E**CUADOR was a part of the Republic of Colombia up to 1830, when, on the death of BOLIVAR, the Federation was torn to pieces. This Federation was created on the 17th of December, 1819, and included the Intendencia of Quito. After the battle of Pichincha, in 1822, and the successful efforts of BOLIVAR to have Guayaquil cast her lot with Colombia instead of with Peru, the flag of Ecuador was the one of the Federation, adopted on the 2d of July, 1821. This flag was the Venezuelan, which had been proposed to the first Congress by the committee appointed for the purpose of devising a flag, and which consisted of MIRANDA, CLEMENTE, and SALA Y BUSSY. The flag was unanimously adopted on the 5th of July, 1811, and consisted of three horizontal stripes, yellow, blue, and red, in the order mentioned, from top to bottom, the yellow stripe having double the width of each of the others.

On the 13th of May, 1830, it was resolved, in Quito, to separate Ecuador from Colombia, and on the 14th of August JUAN JOSÉ FLORES was elected President of the new nation. The Constitutional Congress of the 19th of September, 1830, decreed that, while keeping a common blue center to symbolize the union of the three States of Colombia, in order to differentiate the arms of Ecuador, the arms of Colombia were to be used, but on a sky-blue field there should be added a sun in the equinoctial, and over the fasces a motto saying: "El Ecuador en Colombia" (Ecuador in Colombia).

By the law of June 18, 1843, the coat of arms was to be twice as long as wide, the upper part rectangular and the lower elliptical. The field was divided into three quarters; in the upper one, on a blue field was the sun on a section of the zodiac. The central quarter was divided into two parts; in the right one, on a gold field an open book in the form of tables, in which the Roman numbers I, II, III, and IV, representing the first articles of the Constitution, were inscribed; and in the left-hand portion, on a field of sinople or green, a horse. The lower quarter was also divided in two; in the right, on blue, a river with a vessel, and in the left, on silver, a volcano. Above the shield and in lieu of crest a condor with its open wings

extending to the two angles. On the exterior borders and sides. flags and trophies.

The decree of November 6, 1845, modified the coat of arms and flag. The first was to consist of an oval shield containing thereon, in the upper part of the same, a representation of the sun, with that part of the zodiac in which the signs corresponding to the memorable months of March, April, May, and June are found; and in the lower part of the same, to the right, a representation of the historic Mount Chimborazo, from which a river shall issue, and there was to be, in the widest part thereof, a representation of a steamship having as mast a caducens as a symbol of navigation and commerce, which are the sources of the prosperity of Ecuador. The shield rested on a bundle of consular fasces as emblem of republican dignity, and was ornamented from without with national flags and branches of palm and laurel and crowned by a condor with outstretched wings. The flag was the one of Quito of 1820. It consisted of three quarters divided vertically, the center cerulean blue and the sides white, denoting the natural colors of the sky of Ecuador. In the blue quarter seven stars were to be placed, representing the seven Provinces which composed the Republic at the time.

By the decree of President GARCIA MORENO, of the 27th of September, 1860, the tricolor of Venezuela was again adopted, but the coat of arms remained the same.

Finally, by the legislative decree of October 31, 1900, put in force by President ELOY ALFARO on November 7, 1902, the coat of arms is the same as the one of 1845 and the flag the one of the Colombian Federation, that is to say the Venezuelan of 1811. It is provided in the said decree that the flags raised over national buildings, war ships, fortresses, and those hoisted by the diplomatic and consular agents of the Republic in foreign countries shall bear the coat of arms of the nation in the center on the yellow and blue stripes; that the flags over municipal buildings shall not bear the coat of arms of the nation, but a circle of white stars placed on the blue stripe and of a number equal to that of the Provinces which compose the Republic; and that the army shall use the same national flag as that raised over the national buildings, and each battalion or regiment shall have on its flag or standard its corresponding number, in accordance with the orders of the War Department concerning the same.



# NATIONAL HOLIDAYS OF THE AMERICAN REPUBLICS

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## ECUADOR.

**E**CUADOR celebrates two holidays—the 10th of August, to commemorate the proclamation of the independence of Quito, and the 9th of October, the proclamation of the independence of Guayaquil, which were different political divisions of Ecuador at the beginning of the last century, but which were one in their aspirations after freedom, as they are to-day proud of the common heritage of their patriotic achievements and enthusiastic in their love of country.

Of the Spanish possessions which felt the quickening influence of republican ideals, Ecuador was among the pioneers, and if the expeditionary attempts of the Venezuelan general, FRANCISCO DE MIRANDA, are excepted, Ecuador can claim the glory of having initiated the defiance to Spanish sovereignty and of constituting, after the one at La Paz, the first revolutionary council in America.

The Quitonians, Dr. EUGENIO ESPEJO and JUAN Pío MONTUFAR, entered into hearty cooperation with NARIÑO and ZEA, the leaders of the patriots in Santa Fe, and it was due to ESPEJO that the political association called “Escuela de Concordia” (School of Concord) was instituted at Quito.

On the 25th of October, 1808, under MONTUFAR, the Marquis of Selva Alegre, it was agreed to create a Junta Suprema (Supreme Council) to take charge of the destinies of the country. An inkling of the plan reached the Spanish President—as the Spanish Governor was then designated—MANUEL URRIEZ, Count RUIZ DE CASTILLA, and on the 9th of March, 1809, the chief conspirators, the marquis, MORALES, ex-secretary to the President, QUIROGA, and Captains SALINAS and PEÑA were thrown into prison. They were submitted to a long trial, but no incriminating evidence was found to convict them, and they returned to their homes more determined than ever to carry out their plans, encouraged now by the visible proofs of the people's support.

The city was divided into sections; each elected its representatives, and such was the loyalty and discretion of the people that the authorities were ignorant of what was happening. These representatives met at the house of MANUELA CAÑIZARES, a woman as brave as she was beautiful, and on the 9th of August there were chosen the members of the future provisional government that was to be installed

the next day. Well into the night the principal conspirators assembled, each taking charge of the uprising in a given part of the city. Captain SALINAS, who commanded the only two companies of regular troops, went to their headquarters, read them the declaration of independence, and called them to join him. The soldiers warmly and unanimously seconded the movement; the bodyguard of RUIZ DE CASTILLA was overpowered without much opposition, and he, as well as other prominent royalists, were captured; and thus the Republic of Ecuador was born on the 10th of August, 1809, without the shedding of a drop of blood. In contrast with the magnanimity of the patriots were the cruel acts of RUIZ DE CASTILLA some time afterwards, who, being again in power, broke his promises and made the 2d of August, 1810, a day never to be forgotten on account of the barbarous tortures and executions he visited on the patriots.

But the Quitonians remained undismayed by this failure and the one of 1812, and with varying fortune, but with the same constancy, continued for many years the gallant struggle. It was not until 1820 that the courageous people of Guayaquil were able to rebel. In the face of the Spanish authorities they declared for the constitutional system of Spain, and later, and with kindled hopes at the landing of the Argentine General SAN MARTIN, in Peru, they took up the cry for liberty. General VIVERO had arrived a few months before with reinforcements which brought the garrison to 1,500 men. This did not daunt the patriots; they won over the battalion of Grenadiers and under the leadership of Captains ESCOBEDO, LATAMENDI, URDANETA, and FEBRES CORDERO they obtained the aid of the three auxiliary companies and of the colored militia, and on the night of the 9th of October rose in arms. By four in the morning of the 10th, after very little resistance, the citizens of Guayaquil had captured all the authorities, and the only symbol of Spanish sovereignty were the five helpless armed boats which were in port, and their commander sued for terms in order to obtain them for the Spanish prisoners.

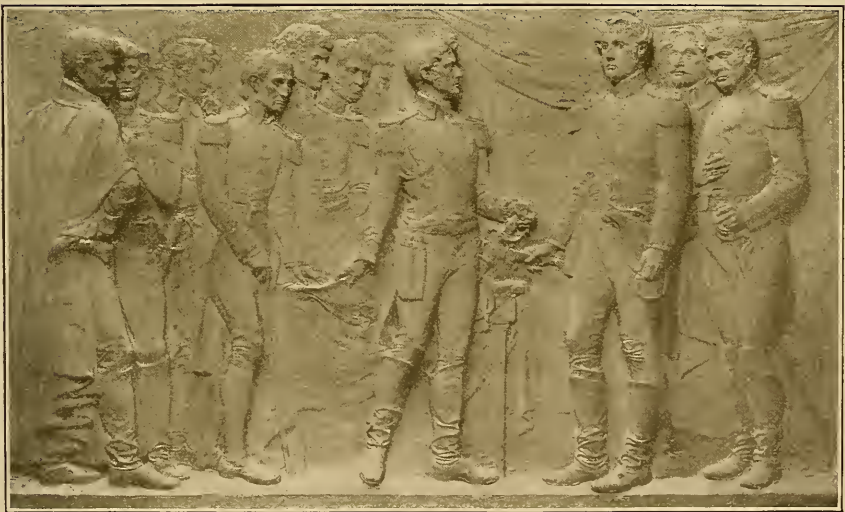
A vessel was immediately dispatched to Buenaventura to apprise Colombia. BOLIVAR was finishing the preparations which were to complete the independence of Ecuador. On the 8th of October, 1821, he addressed the people of Quito in a proclamation thus:

The sound of your shackles grates on the hearts of the Army of Liberation. It is marching toward Ecuador. Can you have any doubt as to your liberty?

And the following year he sent his trusted lieutenant, the wise and valorous Venezuelan, Gen. ANTONIO JOSÉ SUCRE, with the vanguard of his army and again spoke to the people of Ecuador in this wise, on the 17th of January, 1822:

The Colombian Guard is directing its steps to the ancient temple of light. Put your hopes in it. Very soon you will see the flags of the iris borne aloft by the angel of victory.

And so it was, for, vanquishing all obstacles—the want of roads, the scarcity of provisions, the inclement weather of the mountains—these men of iron fought and won with BOLIVAR at Bomboná on the 7th of April and with SUCRE on the 24th of May, 1822, at Pichincha. Forty thousand people witnessed from the house tops and positions of vantage of Quito the duel between the Spanish troops and the combined forces of Colombians, the Peruvians under SANTACRUZ and the Ecuadorians, all led by SUCRE. The sides of the volcano, 4,000 feet above the level of the sea, were the scenes of the bravest deeds; when the battle was over and CORDOVA had driven the loyalists to their last stronghold, out of Quito, to Panecillo, Ecuador's liberty was secured. The next day the Spanish President, Don MELCHOR DE AYMERICH, surrendered. One thousand one hundred soldiers, 160 officers, 4 pieces of artillery, with their banners, a great quantity of ammunitions and provisions, were the prize of the patriots, and exactly two hundred and eighty years after the Spanish had hoisted their conquering standard over Quito it was hauled down.



# SUBJECT-MATTER OF CON- SULAR REPORTS

REPORTS RECEIVED TO AUGUST 20, 1909.

Title.	Date of report.	Author.
ARGENTINE REPUBLIC.		
Opening of \$1,000,000 industrial school in Buenos Aires.....	June 3, 1909	R. M. Bartleman, Consul-General, Buenos Aires.
New regulations concerning fisheries.....	June 8, 1909	Do.
Annual report on commerce and industries for 1908.....	June 15, 1909	Do.
TRADE NOTES.—Population of Buenos Aires. Laying of corner stone of Central Argentine Railway Co. by President Alcora. Increase of capital of Nicholas Mihanovich Steamship Co. Proposed bill to build a seaport at Mar del Plata. Award of prize for pavilions of the Centenary Industrial Exhibition. Arrival of immigrants in May. Shipments of meat from Buenos Aires from January to May. Extension of time to applicants for space at the railway exhibition. Founding of Argentine National Library Association. Exchange of professors between Spanish universities and those of South America. Central Railway of Paraguay authorized by that Government to join the Argentine Railways of the North. Authorization of expenditure for purchase of materials for the national chemical offices established in Mendoza, Tucumen, Salta, and Gualeguaychu. The historic Cabildo of Buenos Aires to be demolished and a sumptuous new city hall built on its site.	June 17, 1909	Do.
Report on Argentine international trade and its development.	June 18, 1909	Do.
Railway exhibition to be held in 1910.....	June 23, 1909	Do.
TRADE NOTES.—Laying of corner stone of new Carlos Durand Hospital for Males in Buenos Aires. New weekly service to be inaugurated by the Compañía de Buenos Aires and the Santa Fe Railways between Buenos Aires and Asuncion, Paraguay. Negotiations concluded for establishment of a dockyard and workshops at Port of La Plata. Completion of 5 new shallow-draft steamers for Parana, Uruguay and Paraguay rivers. British residents of Argentina to erect a memorial clock in Buenos Aires to mark the first centenary of Argentine independence; a monument to be erected by the Spanish residents for the same purpose, and French, Italian, and other foreign elements have similar plans on foot. Extension of German trade in Argentina.	June 25, 1909	Do.
TRADE NOTES.—Transfers of landed property recorded in Buenos Aires in 1908. Exports of live cattle from Argentina during May, 1909. Progress on the new railway line between Port San Antonio and Nahuel Huapi. Design of Italian architects chosen for the monument to be erected in 1910 in Buenos Aires to commemorate the centenary of Argentine independence. The Postmaster-General authorized to have 150,000,000 stamps printed as a commemorative issue in 1910. Reorganization of the Mihanovich Steamship Co.	July 8, 1909	Do.
BRAZIL.		
Annual report of consular district of Santos.....	May 29, 1909	John W. O'Hara, Consul, Santos.
Communication and immigration in Brazil.....	June 2, 1909	G. E. Anderson, Consul-General, Rio de Janeiro.
Progress in Brazilian diamond mining.....	June 9, 1909	Do.
Investments in Brazil.....	June 14, 1909	Do.
Tariff revision in Brazil.....	June 16, 1909	Do.
Four months' trade in Brazil.....	June 19, 1909	Do.
TRADE NOTES.—Milcege book system adopted.....	June 22, 1909	Dirk P. De Young, Vice-Consul, Santos.
Estimated production of diamonds in the State of Bahia from 1845 to 1908.	.....do.....	Tarleton B. Taylor, Vice-Consul, Bahia.

*Reports received to August 20, 1909—Continued.*

Title.	Date of report.	Author.
BRAZIL—continued.		
American pianos in Brazil.....	June 25, 1909	G. E. Anderson, Consul-General, Rio de Janeiro.
Condensed milk in Brazil.....	June 26, 1909	Do.
Declared exports from Rio de Janeiro for 1908 and 1909.....	July 1, 1909	Do.
American lard in Brazil.....	July 5, 1909	Do.
International Medical Exposition at Rio de Janeiro in August, 1910.....	July 6, 1909	Do.
Brazilian Government aiding iron industry.....	July 12, 1909	Do.
Electrifying suburban railways of Rio de Janeiro.....	.....do.....	Do.
Five months' trade in Brazil.....	July 13, 1909	Do.
Railway to Diamantina from Victoria.....	.....do.....	Do.
Exports of crude rubber from Para, Manaus, Iquitos, and Itacoatiara, Brazil, for year ending June 30, 1909.....	July 14, 1909	Geo. H. Pickereil, Consul Para.
CHILE.		
Arrival of first steamer of new Japanese steamship company.....	June 15, 1909	A. A. Winslow, Consul-General, Valparaiso.
Improved business outlook.....	July 12, 1909	Do.
COLOMBIA.		
List of buyers and exporters of Barranquilla.....	May 13, 1909	A. L. Burnell, Vice-Consul, Barranquilla.
Decrees of Acting President Holguin reducing expenses and extending amnesty to political refugees.....	June 22, 1909	Chas. Latham, Consul, Barranquilla.
Annual report on commerce and industries.....	June 30, 1909	Eugene Betts, Vice Consul-General, Bogota.
CUBA.		
Shipment of Cuban vegetables and fruit to the United States during fiscal year 1908-9.....	July 7, 1909	J. L. Rodgers, Consul-General, Havana.
DOMINICAN REPUBLIC.		
The manufacture of cigars and cigarettes in the Dominican Republic.....	July 10, 1909	R. J. Totten, Consul, Puerto Plata.
ECUADOR.		
Inclosing newspaper clipping regarding approval by the French Government of certain contracts to construct railways in Ecuador.....	June 18, 1909	H. R. Dietrich, Consul-General, Guayaquil.
Inclosing newspaper clipping, with text of a contract for the construction of a railroad from Ambato to the eastern section of Ecuador.....	June 23, 1909	Do.
Annual report of commerce and industries.....	July 10, 1909	Do.
TRADE NOTES.—Receipts of cocoa for six months of 1909. Large amount of unset tled lands still available for agriculture. Export of dry hides of neat cattle.....	July 16, 1909	Do.
GUATEMALA.		
Annual report for 1908.....	July 6, 1909	Wm. Owen, Vice-Consul-General, Guatemala City.
MEXICO.		
Official programme for the celebration of the first centennial of the independence of Mexico.....	July 7, 1909	C. A. Miller, Consul, Matamoros.
Vanilla in Mexico.....	July 14, 1909	W. W. Canada, Consul, Veracruz.
Possibilities of the Matamoros consular district for the production of cotton.....	July 16, 1909	C. A. Miller, Consul, Matamoros.
List of farms in the State of Durango, with crops raised.....	July 22, 1909	C. M. Freeman, Consul, Durango.
List of articles having free entry into the Territory of Quintana Roo, Peninsula of Yucatan.....	July 23, 1909	W. W. Canada, Consul, Veracruz.
Report of commerce and industries of Tampico for 1908.....	July 29, 1909	P. M. Griffith, Consul, Tampico.
Extension of Mexico Northwestern R. R.....	.....do.....	J. W. Gourley, Vice-Consul, Ciudad Juarez.
Tobacco lands in Mexico.....	July 31, 1909	W. W. Canada, Consul, Veracruz.
TRADE NOTES.—Concession granted for construction and operation of a slaughterhouse in Sabinas, Coahuila. Establishment of an electric light and power plant in General Cepeda, Coahuila. Concession for a brick manufacturing establishment at Monclova, Coahuila. Concession for a telephone line between Saltillo, Torreon, and San Pedro de las Colonias, Coahuila.....	.....do.....	T. W. Voetier, Consul, Saltillo.

*Reports received to August 20, 1909—Continued.*

Title.	Date of report.	Author.
NICARAGUA.		
Inclosing copies of Bulletin No. 7 of Statistics of the Republic of Nicaragua.	May 29, 1909	J. de Olivares, Consul, Managua.
New law regarding consular invoices.....	June 23, 1909	Do.
Exportations and importations through all ports of Nicaragua for calendar years 1906 and 1908.	July 2, 1909	Do.
PANAMA.		
Report on the discovery of deposits of coal and petroleum in the Republic.	July 26, 1909	C. E. Guyant, vice-consul-general, Panama.
New tobacco company formed in the city of Panama.....	.....do.....	Do.
SALVADOR.		
The balsam industry in Salvador.....	June 30, 1909	A. H. Frazier, Consul-General, San Salvador.
URUGUAY.		
The frozen meat industry in Uruguay.....	June 25, 1909	F. W. Goding, Consul, Montevideo.
New laws to improve the quality of wheat.....	July 7, 1909	Do.
VENEZUELA.		
Parcels-post regulations for Venezuela.....	June 17, 1909	Isaac A. Manning, Consul, La Guira.
Cancellation of various concessions.....	June 20, 1909	Do.
Removal of duty from toilets, rat-traps, and various insecticides and poisons.	June 29, 1909	Do.
Sale of and demand for condensed milk in Venezuela.....	July 6, 1909	Do.
Result of catalogue plan of advertising in Venezuela.....	July 7, 1909	Do.
Report on toilet soaps and talcum powders imported and sold in Venezuela.	.....do.....	Do.
Annual report of commerce and industries.....	July 9, 1909	Do.
Report on the railway from Guanta to Barcelona, Venezuela, and operation of the coal mines near Guanta.	July 12, 1909	Do.
Supplemental annual report for 1908.....	July 22, 1909	Do.
Reestablishment of the match monopoly.....	.....do.....	Do.
New tariffs for passengers and freights along the Venezuelan coast.	July 27, 1909	Do.

# ARGENTINE REPUBLIC

## PAPER IMPORTS IN 1908.

The value of the paper imports of the Argentine Republic has increased, in round numbers, from \$4,000,000 in 1904 to \$6,000,000 in 1908. Newspapers in rolls form the chief item of this commerce, the quantity having risen in five years from 6,400 tons to 12,200 tons. The United States and Germany supply the bulk of imported paper. Cardboard, nearly all of which comes from Germany and Holland, is the second item in importance in the paper trade. Toilet and photographic papers, lithographic and blank books, are largely furnished by Great Britain.

In addition to the consumption of imported paper, the annual sales of the 10 paper mills of the Republic, capitalized at \$7,000,000, national currency, aggregate about \$5,500,000. The raw material used by the Argentine paper mills is mostly wood pulp, all of which is imported. The product consists largely of low-grade wrapping and printing paper. The imports of wood pulp have increased from 16,000 tons in 1904 to 18,500 tons in 1908, most of which come from Germany, Brazil, and Sweden.

## RANK AMONG THE NATIONS OF THE WORLD IN THE EXPORTS OF AGRICULTURAL PRODUCTS.

The Argentine Republic ranks first among the nations of the world in the exports of linseed; second in those of wheat, corn, and meat products; and third in wool, cattle, and sheep.

## NEW INDUSTRIAL SCHOOL, BUENOS AIRES.

A new industrial school at Buenos Aires, located in a large, modern, three-story structure, erected at a cost of \$424,600 and completely equipped with all modern appliances, was opened for use on May 24, 1909. This school has a fine chemical laboratory and a well-selected library of scientific books.

## CARLOS DURAND HOSPITAL IN BUENOS AIRES.

The new Carlos Durand Hospital, for males, planned to accommodate 300 persons, is now being erected in Buenos Aires. This building, the corner stone of which was recently laid, will cost \$550,000, and will be one of the most modern and best equipped hospitals in South America.

**DOCKYARD AND WORKSHOPS AT LA PLATA.**

An English firm has contracted with the Argentine Government for the establishment of a dockyard and workshops on the Santiago River at the port of La Plata.

**MEMORIALS OF FOREIGN COLONIES IN HONOR OF THE HUNDREDTH ANNIVERSARY OF INDEPENDENCE.**

The British residents of the Republic will erect in 1910 a memorial clock tower on a prominent site in Buenos Aires, in honor of the first centenary of the independence of the Republic. The Italian, Spanish, French, and other foreign nationalities are preparing to erect suitable monuments in commemoration of the same event.

**CENTRAL ARGENTINE RAILROAD STATION AT BUENOS AIRES.**

The corner stone of the new station of the Central Argentine Railroad Company at Buenos Aires was recently laid by President ALCORTA. This building will be one of the largest, finest, and best equipped railroad stations in South America and a magnificent and imposing structure. The edifice will rise 98 feet from the level of the sidewalk to the cornice, and above this will be a high mansard roof. The station will be provided with a tower 230 feet high, in which a large clock having faces on all four sides will be placed. The main building will front 434 feet on Maipu street and 619 feet on the Paseo. The ground floor will be used for station purposes proper and the upper stories for offices.

**DEVELOPMENT OF INTERNATIONAL TRADE.**

MR. RICARDO PILLADO, Director of the Division of Commerce and Industry of the Department of Agriculture of the Argentine Government, has prepared an interesting pamphlet on Argentine commerce and industry, containing valuable data, statistics, and tables, and printed in English for distribution abroad.

This brochure shows that the population of the Republic increased from 1,830,214 inhabitants in 1869 to 6,489,023 in 1908. About one-third of the population, or 2,836,281 persons, reside in the city and Province of Buenos Aires, the area of which is 305,307 square kilometers, as compared with 2,950,520 square kilometers, the total area of the Republic. The city of Buenos Aires, with an area of 186 square kilometers, contains a population of 1,189,252 souls.

The total number of immigrants who arrived in the country from 1857 to 1908, inclusive, was 3,178,456, nearly 1,800,000 of whom were Italians. The number of immigrants who entered the Republic from 1901 to 1908, inclusive, was 1,243,379.



In 1857 the nation had only 10 kilometers (6.2 miles) of railways, capitalized at \$285,108, while in 1908 there were 23,723 kilometers (14,708 miles), with a capital of \$867,000,000, and which transported during that year 48,594,000 passengers and 31,931,000 tons of freight, receiving therefor \$101,391,000, of which \$61,368,000 were expended in operating and other expenses.

In 1908 there arrived from over-sea 3,882 steamers with a carrying capacity of 8,978,415 tons, and 330 sailing vessels with a tonnage of 323,984 tons.

The total imports and exports of the Republic from 1899 to 1908, inclusive, were, respectively, \$1,799,805,674 and \$2,449,170,201, or a balance of trade during the ten years referred to of \$649,364,527. In the five years of 1904 to 1908, inclusive, the imports and exports, respectively, were \$1,221,264,000 and \$1,541,465,000.

#### POPULATION OF BUENOS AIRES.

The population of Buenos Aires on May 30, 1909, was estimated at 1,203,050 souls.

#### MIHANOVICH STEAMSHIP COMPANY.

The Nicholas Mihanovich Steamship Company, flying the Argentine flag, and which is one of the largest steamship lines on the River Plate, has increased its capital to \$10,000,000.

#### PROPOSED IMPROVEMENTS OF MAR DEL PLATA PORT.

A bill has been introduced into the Argentine Congress to expend \$12,000,000 in the building of a port for ocean-going vessels at Mar del Plata, an important railway terminus tributary to one of the richest agricultural zones of the Republic.

#### ARGENTINE NATIONAL LIBRARY ASSOCIATION.

An Argentine National Library Association has been founded in Buenos Aires. The first public library in the Republic was opened in the latter city on August 16, 1812.

#### ARCHITECT OF THE INDUSTRIAL EXHIBITION.

A report from United States Consul-General R. M. BARTLEMAN, Buenos Aires, states that the jury appointed to decide on the plans for the pavilions of the Centenary Industrial Exhibition has awarded the prize to the plan entitled "Labor Omnia Vincit," submitted by Engineer ARTURO PRINS, who will be appointed architect of the Industrial Exhibition.

**UNION OF ARGENTINE AND PARAGUAYAN RAILWAYS.**

The Central Railway of Paraguay has been authorized by the Paraguayan Government to connect with the Argentine railways of the north. This union will probably be effected by an extension of the railway lines and an improved ferry service.

**INDEPENDENCE HALL.**

The historic Independence Hall of the Argentine Republic, located in Buenos Aires and at present used as a civil court, will be torn down by the city and a magnificent city hall erected on its site.

**TRANSFERS OF REAL PROPERTY IN BUENOS AIRES IN 1908.**

There were 20,419 transfers of real property in the city of Buenos Aires in 1908, aggregating a value of \$102,344,647, or \$11,557,639 in excess of the transfers of 1907.

**MONUMENT IN COMMEMORATION OF THE CENTENARY OF NATIONAL INDEPENDENCE.**

The monument to be erected in 1910 in commemoration of the centenary of the independence of the Republic will have a base 148 feet square, will contain a large hall to be used as a historical museum, and will be 155 feet high. The design was made by a firm of Italian architects.

**COMMEMORATIVE STAMPS FOR 1910.**

The Argentine Government has authorized the issue in 1910 of 150,000,000 postage stamps in commemoration of the centenary of the independence of the nation. These stamps will be illustrated with representations of noteworthy people and events in the history of the Republic.

**FINAL DATE FOR APPLICATION FOR SPACE IN THE CENTENNIAL EXPOSITION.**

Hon. CHARLES H. SHERRILL, American Minister at Buenos Aires, advises that the Argentine Government has fixed October 15, 1909, as the final date on which application for space can be made by American exhibitors at the Centennial Exposition to be held in Buenos Aires in 1910 in honor of the hundredth anniversary of the nation's independence. If on that date said space applications total 1,000 meters, the United States will be granted a separate exhibit carrying unlimited time for space applications. He furthermore suggests that it would be profitable for American exhibitors to send to the railway exposition novelties, railway and tramway operating and office appliances, signal system, cattle, pouch, and refrigerating cars, ventilating apparatus, power and shop tools, and to the agricultural exposition harvesting machinery and exhibits showing production, preparation, and

preservation of fruits. The Argentine authorities have consented to arrange for the protection of novelties exhibited from fraudulent registration of trade-marks.

#### COMPETITIVE PLANS AND BIDS FOR THE CONSTRUCTION OF THE JOSE DE SAN MARTIN POLYCLINIC, BUENOS AIRES.

Competitive plans and estimates from all parts of the world will be received at the Department of Public Instruction, Buenos Aires, until December 10, 1909, for the construction of a building for the Jose de San Martin Polyclinic, the capital invested in the building to bear 5 per cent interest annually. The plans and estimates will be submitted to an advisory committee, and decision rendered within thirty days from the aforesaid date. The bids must be made in accordance with the law of public works of July 20, 1876, and the regulations relating thereto. The following documents must be submitted:

(a) The general plan, showing the situation of all the buildings and dependencies in the scale of 0.005 per meter.

(b) The partial plans of each floor of each of the buildings planned as an integral part of the polyclinic in the scale of 0.01 per meter.

(c) Longitudinal and cross sections of each building in the scale of 0.01 meter.

(d) The front of the main buildings and pavilions in the scale of 0.01 per meter.

(e) A bird's-eye view of the whole, which shall be 1 meter long at its greatest length.

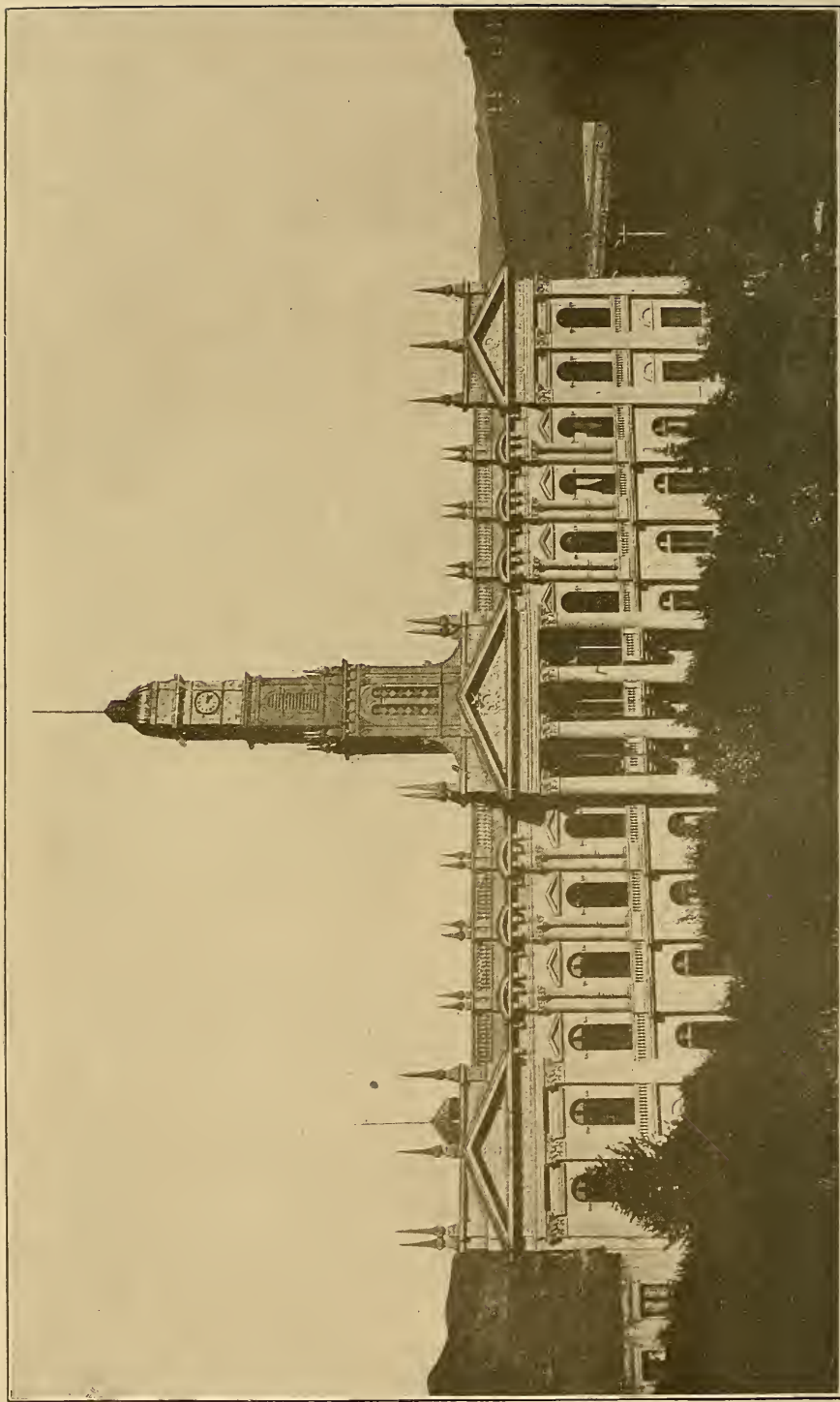
(f) A detailed description and a general estimate.

(g) A financial bid as to the best manner of carrying out the work, stating clearly the solid guaranties it affords. This bid shall not be compulsory, and may be limited to the mere presentation of the other documents.

The building shall not have more than two floors and a basement, and must correspond to the system of detached institutes, 24 in number, with a capacity of 60 beds each, as follows:

Four for clinical medicine, four for clinical surgery, two for obstetrical clinic, one for external pathology, one for paediatric clinic, one for semiology, one for dermatology and syphilographical clinic; one for gynaecological clinic, one for ophthalmological clinic, one for neurological clinic, one for otolaryngological clinic and odontology, one for genito-urinary clinic, and one for hydro-electrotherapy, central laboratory and kinesitherapy, and the house and school for trained nurses.

The author of the plan selected shall have charge of the preparation of the final plans and the technical supervision of the work under the supervision of the advisory committee, and shall receive 5 per cent of the price of the building proper.



**THE CAPITOL AT LA PAZ, BOLIVIA.**

The new executive palace, while but two stories in height, is much more spacious than the one it replaces. It faces the principal plaza of the city, and is one of the handsomest modern buildings in La Paz.

The second and third best plans shall be entitled to prizes of 10,000 pesos (\$1,400) and 5,000 pesos (\$2,200), respectively. The plans for which prizes are awarded become the property of the Government, as well as the plans submitted that are not claimed within six months from the date of the award.

All communications regarding the matter should be addressed to the "Advisory Committee, 430 Viamonte street, Buenos Aires, Argentine Republic."



#### NAVIGATION OF LAKE TITICACA.

The passenger and freight traffic of Lake Titicaca, consisting largely of exports and imports through Bolivian and Peruvian ports, is carried on by means of a number of small steamers and launches. The two largest, most important, and fastest of these steamers are the *Coya* and the *Inca*, both of which render great services to Bolivian-Peruvian commerce by transporting large quantities of merchandise consigned to and from the Peruvian ports of Mollendo and Puno, the imports going to La Paz and other Bolivian centers of distribution and the exports to foreign countries. The *Inca* was constructed a short time ago, is handsomely and solidly equipped, and is especially adapted to rapid freight and passenger traffic on Lake Titicaca. The two steamers referred to are operated by the Peruvian Corporation, an English company which has a Peruvian concession for the exploitation of some of the railways of that Republic. These railways are operated in connection with the great international Lake Titicaca traffic, and a thriving and growing commerce is carried on between Bolivia and Peru in this picturesque lake situated in one of the highest table-lands of the Andean range.



#### PERNAMBUCO AS A FIELD FOR INVESTMENT OF AMERICAN CAPITAL.

Mr. JOSÉ THEOPILO CARNEIRO DE ALBUQUERQUE, in a recent communication to the International Bureau, observes that Pernambuco has not as yet attracted American capital in any considerable quantity, because most of the foreign enterprises are controlled by Europeans who have, at the present time, a better knowledge of the

opportunities and resources of that rich and productive State. The climate of this section of Brazil is salubrious, the soil exceedingly fertile and capable of growing to perfection a large number of profitable tropical crops, among which the cultivation of sugar cane is now most widely developed. The transportation facilities to many parts of this great agricultural zone are good, and Recife, the principal port of the State, is at present being improved by a French company, and its value as a center of water transportation will be greatly increased.

A profitable investment that could now be made in Recife is the erection of dwelling houses for workmen, the importation of building material for this purpose being free of duty. Another industry that could be greatly developed in the State of Pernambuco is the manufacture of rope, twine, and paper from the fibers of textile plants, such as hemp, banana, jute, and the wonderfully useful fibrous plant known as "perini," which grows in great abundance in this State. It should be borne in mind that Brazil expends thousands of dollars annually in the importation of rope of all sizes, and a large and growing market could readily be found for domestic manufacturers of this kind. A fiber-extracting company could also do a flourishing business in this State, the raw material and undeveloped fields existing in unlimited quantities, with foreign and domestic markets anxious to purchase immense quantities of the products of the properly prepared fibers of the great fibre-producing plants of this virgin zone. The erection of sugar mills also offers a wide field for the investment of large amounts of American capital. Ideal locations for the erection of sugar-cane mills would be in the Itapyrema Valley, and at the Bu plantation, where there is plenty of fuel and water, and where sugar and alcohol could be shipped direct from the mill.

Plans have been made for the construction of a railway from Recife to Itambe, a distance of about 120 kilometers, thus opening up a rich belt in which cotton can be raised in large quantities and where cotton mills could doubtless be profitably established. This region is also a rich sugar-cane and stock-raising district, and has the advantage of being accessible by small steamers, which transfer their cargoes at the ocean ports to seagoing freight steamers. A slaughterhouse, which could be supplied with cattle from this zone, would probably be a very profitable investment if established at or near Recife.

In the calcareous soil of portions of the State of Pernambuco grapes of the finest quality, flavor, and variety grow in abundance. This industry is still in its infancy, but is capable of unlimited development.

Cocoa is now cultivated on a small scale, but its production could be greatly augmented in many portions of the State, whose soil is particularly suited to the cultivation and growth of this excellent

and much-sought-for product. The establishment of a cocoa butter factory would doubtless prove a handsomely paying enterprise.

The high tablelands of the interior of the State of Pernambuco produce potatoes, wheat, corn, and other cereals, and the waters of all the streams teem with large quantities and varieties of edible fish.

Mines have been discovered in the mountainous regions of the State, but are as yet little exploited, although some dredging for gold is now being carried on by an American company.

American investors will find the State of Pernambuco a promising field for investigation and development and deserving of careful attention, especially in regard to the industries mentioned in the foregoing as well as of many other profitable fields for the employment of capital.

#### **DIMANTINA RAILWAY.**

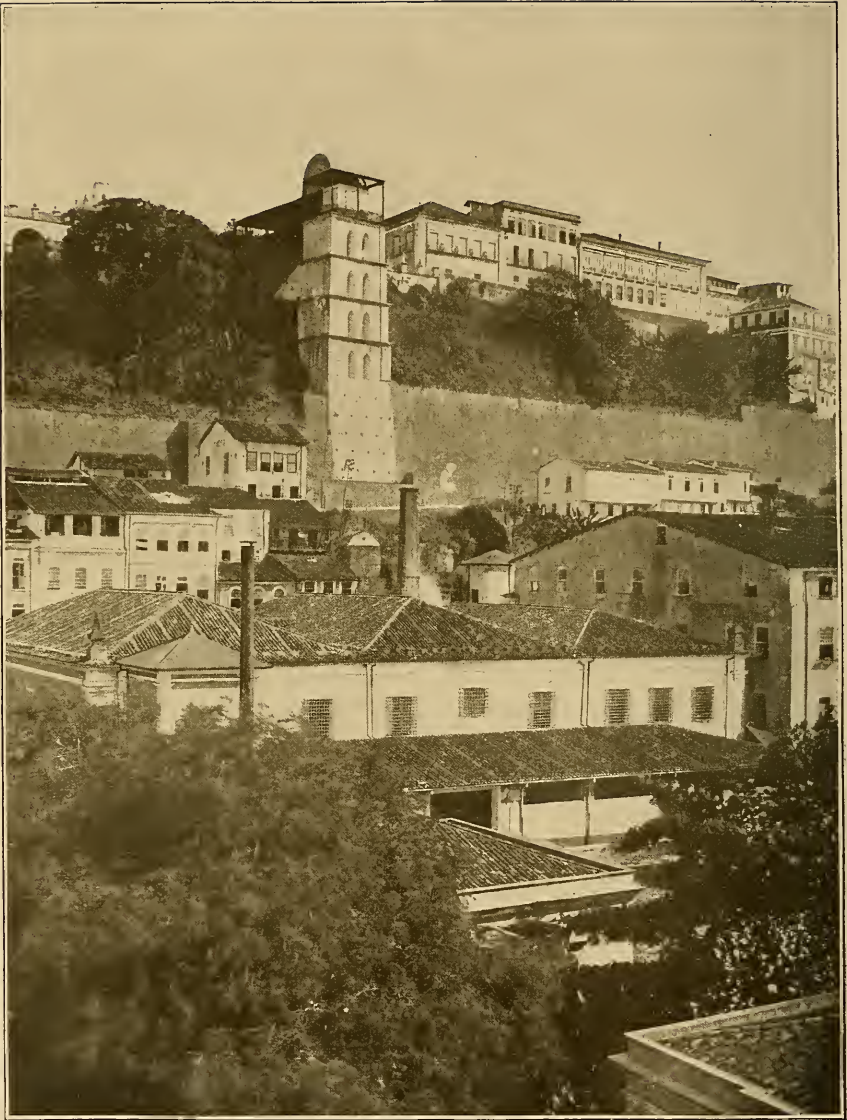
A contract has been made by the Brazilian Government with a Belgian syndicate to construct a railway from Port Victoria to a point near Dimantina, in the State of Minas Geraes. The construction of this railway will doubtless open up a large number of mining properties in this district, many of which are now operated by American companies. This railway will enable modern mining machinery to be brought into the rich mining zone of this part of the Republic, and will give a new impetus to the mining industry in that part of the country.

#### **FOREIGN TRADE FIRST FIVE MONTHS 1909.**

The imports of Brazil during the first five months of 1909 amounted to \$68,538,521, while the exports rose to \$105,047,777.

#### **NEW PORT REGULATIONS AT RIO.**

The New Port Regulations, which require confirmation by the Minister of Public Works before becoming effective, provide for the payment of taxes into the port caisse, or treasury, and the strict observance of the customs rules and regulations. Before docking at the quays vessels shall obtain permission from the custom-house. The loading or unloading of vessels shall be carried on in the presence of the captain. The warehouse registers shall be in the hands of the respective controllers, and shall be countersigned by the inspector of the custom-house and the managing director of the ports works commission. By special permission loading and unloading may be carried on during the night. All cargo unloaded from vessels shall be deposited in the warehouses. Inflammable, explosive, or corrosive goods can not be stored in the inner warehouses.



VIEW OF THE UPPER CITY OF BAHIA, BRAZIL, LOOKING TOWARD THE BAY.

Here are located the most important public buildings and the homes of the more wealthy citizens. It is located over 200 feet above the other part of the city, with which it is connected by a hydraulic elevator.



**ELECTRIC RAILWAYS AND LIGHTING AT PARA.**

The gross receipts of the Para tramways from January to November, 1908, inclusive, were £139,509, as compared with £137,098 for the same period of the previous year. The receipts from electric lighting for the period referred to were £65,802, as compared with £67,485 for the same period of the previous year. The total receipts for the period mentioned were £205,311, as compared with £204,583 for the same period of the previous year. The net profits for the period under consideration were £52,674.

**TRANSANDINE RAILWAY TUNNEL.**

The work on the great Transandine Railway tunnel is rapidly progressing. In August last 1,325 meters had been drilled from the Chilean side of the crest of the Andes Range and 1,050 meters from the Argentine side, or a total of 2,375 meters. The tunnel, which is situated at an altitude of 3,200 meters, will be 3,030 meters long. The junctions of the headings will probably be effected by the end of 1909, and the whole line is expected to be open to public traffic in March, 1910. The completion of this tunnel will give through railway communication between Valparaiso and Buenos Aires.

**IMPORTS BY PARCELS POST.**

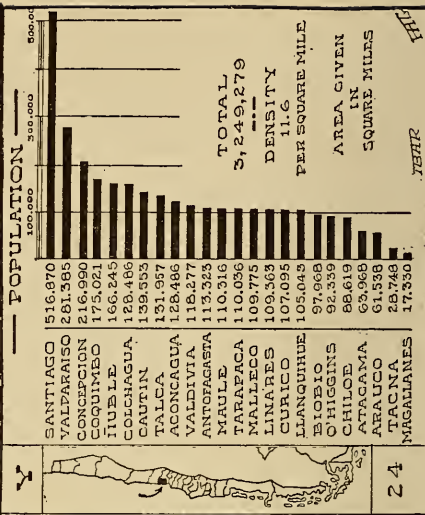
In 1908 the imports into Chile by parcels post amounted to \$989,720, as compared with \$366,250 in 1907, or a gain in 1908 of \$623,470. The principal articles imported consisted of jewelry, silks, laces, gloves, dresses, leather goods, and feathers, and came principally from France, Germany, England, United States, and Switzerland.

**NEW MAP OF THE REPUBLIC.**

A new map of Chile for the use of the schools of the Republic has been prepared by the Department of Public Works. The Federal Government has approved the map, and has ordered 30,000 copies printed for distribution.

14		MAGALLANES-TERRITORY-AREA-71,105.
13		ANTOFAGASTA ~ AREA-46,597.
12		TARAPACA ~ AREA ~ 16,125.
11		ATACAMA ~ AREA ~ 30,720.
10		LLANQUIHUE ~ AREA ~ 45,502.
9		BIOBIO ~ AREA ~ 45,502.
8		VALDIVIA ~ AREA ~ 8,647.
7		CHILLOE ~ AREA ~ 8,590.
6		CAUHN ~ AREA ~ 5,830.
5		SANTIAGO ~ AREA ~ 5,663.
4		ACONCAGUA ~ AREA ~ 5,485.
3		BIOBIO ~ AREA ~ 5,245.
2		LINARES ~ AREA ~ 3,941.
1		MAGALLANES-TERRITORY-AREA-71,105.

15		COLCHAGUA-AREA ~ 3,855.
16		TALCA ~ AREA ~ 3,839.
17		CONCEPCION ~ AREA ~ 3,252.
18		CURICO ~ AREA ~ 2,978.
19		MALLECO-AREA ~ 2,973.
20		MAULE ~ AREA ~ 2,474.
21		ARAUCO ~ AREA ~ 2,446.
22		O'HIGGINS ~ AREA ~ 2,289.
23		VALPARAISO ~ AREA ~ 1,933.
24		MAGALLANES 17,330.



AREA AND POPULATION OF THE PROVINCES AND TERRITORIES OF THE REPUBLIC OF CHILE.

**RAILWAYS UNDER CONSTRUCTION.**

In April, 1909, the following railways were being constructed in the Republic under the direction of the Government:

Kilometers.	Kilometers.
Arica to La Paz..... 460	San Bernardo to Volcan..... 13
Inca to Copiapo..... 88	Melipilla to San Antonio..... 43
Ovalle to Trapeiche..... 15	Alcones to Arbol..... 10
Paloma to San Marcos..... 42	Rucapequen to Tome..... 18
Choapa to Illapel..... 19	Coigue to Nacimiento..... 8
Longitudinal Tunnels..... 5	Osorno to Puerto Montt..... 126
Choapa to Salamanca..... 18	Ancud to Castro..... 89
Rayado to Vilos..... 26	Maule Bridge..... .321
Rayado to Papudo..... 10	Cholchol Bridge..... .430

**PUBLIC CONSTRUCTION IN 1908.**

According to a recent report of the Department of Public Works, 44 bridges were completed and opened to traffic by the Government in 1908, the total cost of which amounted to \$787,439.56 Chilean gold.

During the same year the Board of Public Works approved 30 projects of construction, the cost of which will be \$676,748.32 Chilean gold and \$993,770.51 Chilean currency.

The amount expended in the Republic for the construction and repair of public roads in 1908 was \$2,196,320 Chilean gold.

**CLOSER TRADE RELATIONS WITH THE UNITED STATES.**

The "Manufacturers' Record," of Baltimore, Maryland, publishes an interesting communication from JOHN H. FRANZ, a native of that city, who has been interested in mining in Chile for the past forty years, regarding closer trade relations of the United States with South America, and especially with Chile. From practical observations and long experience, Mr. FRANZ believes that the trade between Chile and the United States would be greatly augmented by the appointment of American consuls to more of the smaller ports of that Republic, and by the establishment of increased steamship communication and facilities with the Atlantic and Pacific coast ports of the United States.



**DEVELOPMENT OF THE BANANA INDUSTRY.**

The development of the banana industry is being greatly encouraged by the Government of Colombia, and valuable grants of land for the growing of this important food plant have been made in a number of districts suited to banana culture, and especially along the line of the Santa Marta Railway. A well-informed and able Colombian writer

on the agricultural possibilities and productions of the Republic recently said, in a highly interesting treatise in regard to banana cultivation, that an additional motive for interesting the Government and private citizens in the development of the banana and other tropical industries, such as rubber and cacao, was that the agricultural exports of Colombia at the present time largely consisted of a single crop, namely, coffee, and that it was highly desirable, as well as conducive to the interests of the nation and to those of individual agriculturists, to have a greater diversity of crops for the export trade, and that for this reason alone, if for no other, the growing of bananas, cocoa, and rubber, the natural companions of coffee, should be encouraged and developed. The field is a brilliant one, and gives great promise of not only enriching the individuals directly engaged in the exploitation



STEEL PILE PIER OF THE BARRANQUILLA RAILWAY AND PIER COMPANY (LIMITED), AT PUERTO COLOMBIA, THE ACTUAL SEAPORT FOR BARRANQUILLA, COLOMBIA.

It is 4,000 feet long, extends into 26 feet of water, and accommodates five ocean steamers at one time.

of that branch of the agricultural industry, but of contributing in no small degree to the general prosperity of the Colombian people and to the augmentation of the wealth of the nation.

#### FOREIGN TRADE IN 1908, BY CUSTOM-HOUSES.

The Government of Colombia has compiled the following table showing the exports and imports of the Republic, by custom-houses, in 1908:

Custom-houses.	Exports.	Imports.	Custom-houses.	Exports.	Imports.
Arauca .....	\$38,725.70	\$16,622.97	Oroque .....	\$14,965.30	\$11,662.80
Barranquilla .....	6,904,963.91	8,219,126.60	Riohacha .....	162,597.27	50,431.10
Buenaventura .....	843,166.00	1,340,322.12	Santa Marta .....	923,305.81	185,889.75
Cartagena .....	4,280,565.18	2,542,650.40	Tumaco .....	1,026,181.33	828,177.07
Cucuta .....	724,677.80	281,014.34			
Ipiales .....	79,586.20	37,992.50	Total .....	14,998,734.50	13,513,889.65



# COSTA RICA

## FOURTH INTERNATIONAL SANITARY CONFERENCE.

Mr. JOAQUIN BERNARDO CALVO, Minister of the Republic of Costa Rica in Washington, has forwarded to the Secretary of State of the United States the formal invitation of the Government of Costa Rica to the Government of the United States to participate in the Fourth International Sanitary Conference, to be held in San Jose, capital of Costa Rica, from December 25, 1909, to January 2, 1910. The Secretary of Foreign Relations of Costa Rica, in the communication transmitting the invitation to the United States Government, refers to the great importance of the work accomplished by previous sanitary conferences and the unquestioned utility of these periodical meetings of representatives of American medical science to the most vital interests of all the republics of the Western Hemisphere, and expresses the hope, in view of the humanitarian purpose of the conference, that all the nations of the North and South American continents will be represented therein.

### MESSAGE OF THE PRESIDENT.

On August 9, 1909, President CLETO GONZÁLEZ VÍQUEZ delivered a short but important message to the Federal Congress, assembled in special session to consider the question of the conversion of the foreign debt and the obtainment of a loan under such conditions and terms as will tend to strengthen the national credit at home and abroad and encourage and develop the agricultural, commercial, and manufacturing industries of the Republic.

The Executive recommends the approval of the contract made by the Special Commissioner of Costa Rica with the National City Bank of New York, and believes that the bringing in of new capital is the most practical way for the nation to settle its foreign indebtedness and inject new vigor and life into the fountains from which flow the public wealth of the country. The President leaves the details of the agreement with the National City Bank to be explained to the Congress by the Secretary of Finance, but the plan in general contemplates the funding of the entire debt of the Republic, with the exception of the debt in favor of schools and eleemosynary institutions.

The Executive recommends, furthermore, that the payment of the loan be guaranteed by a tax on bananas and the receipts from customs, and the arrangement contemplates the establishment of a funding deposit to be applied to the payment of the debt. It remains for the Congress to approve, reject, or modify the ad referendum contract in question.

**MODIFICATION OF CUSTOMS TARIFF.**

Under date of July 13, 1909, the following articles were placed on the free list:

Cement fiber in blocks; carpenter's iron squares, double or single; iron elbows, double or single, and other forms of iron elbows used exclusively for frames; iron door, window, and "linternilla" frames, and iron posts, pillars, canoes, and pipes for drains; construction material for the electric-light plant at Puntarenas; corn and black beans.

From September 1, 1909, to September 1, 1919, the duty on sugar will be 10 centimes (\$0.0465) per kilogram, plus wharfage, theater, and consular duties. Refined cane and beet sugar will continue to pay the regular tariff duties.

**ARBITRATION TREATY WITH THE UNITED STATES.**

On June 28, 1909, the President of the Republic of Costa Rica ratified the arbitration treaty celebrated in Washington on January 13, 1909, between the representatives of the Governments of Costa Rica and the United States. The treaty is for a period of five years, and is to remain in force thereafter until one year's notice of its termination shall be given by either of the parties thereto.

**POPULATION OF THE REPUBLIC.**

The Bureau of Statistics of Costa Rica, in corrected figures recently issued, gives the population of the Republic on December 31, 1908, as 361,779 souls.

**INTRODUCTION OF CARAVONICA COTTON.**

The caravonica cotton is being cultivated experimentally in Cuba. Near Baracoa, in the most easterly part of the island, 1,500 feet above the level of the sea, about 15 acres have been planted with caravonica "silk" and about 50 acres with caravonica "wool" cotton. The seeds came from Australasia, and the result is said to be the most satisfactory for both varieties, the plants bearing a rich and abundant product. Samples of this cotton have been sent to experts in the United States and Europe, and the strength, gloss, and length of staple have been greatly admired and praised. The conditions in many parts of the Republic are most favorable for the cultivation of this cotton, the climate, soil, and moisture being exactly such as are required for its greatest development and growth. The growth of

the cultivation of caravonica cotton in Cuba is most promising and encouraging, and it is hoped that it will grow into one of the most profitable and extensive industries of the country.

#### THE NATIONAL BANK OF CUBA.

The National Bank of Cuba has a paid-up capital of \$5,000,000 and deposits of \$16,000,000. It was founded in 1901, and was the fiscal agent and depository for the United States Military Government, through which all revenues were disbursed and audited by means of checks on the bank during the period of intervention. The Republic of Cuba adopted the same system for handling its money through this bank, and the results have been increased facilities and economy and dispatch in the handling of the fiscal operations of the Government. The head offices of the bank are in Havana, with fifteen branches throughout the island and an agency in New York.

The National Bank of Cuba has combined the system in use in the United States with the branch banking systems of Europe, and its heads of departments have been drawn from the principal banks of the world. Business and correspondence is conducted in Spanish, English, French, and German to meet the requirements and international character of its operations.



#### TOBACCO INDUSTRY.

The American Consul at Puerto Plata, Dominican Republic, states that the annual output of cigars and cigarettes manufactured in that country is constantly increasing, and that as the tobacco growers of the nation are making earnest and continued efforts to improve the methods of cultivating the plant and the curing of the leaf, a great improvement in the quality of the product will necessarily follow within the next few years. Most of the manufactured product is consumed in the country. All the regular sizes and shapes of cigars are made, and the prices range from 1 cent to 10 cents each.

At present there are four thoroughly equipped and modern cigarette factories in the Republic, with a daily capacity of more than 1,000,000 cigarettes, and the cigarettes manufactured are of excellent quality. One of the large factories has its own lithographing plant. Cigarettes are put up 12 to the package and 1,400 packages to the case. They retail in the country at 2 cents a package. Considerable quantities of Dominican cigarettes have been shipped to St. Thomas, and their popularity is rapidly increasing throughout the West Indies and the neighboring republics.

# ECUADOR

## RECEIPTS OF COCOA AT GUAYAQUIL, FIRST HALF OF 1909.

The receipts of cocoa at the port of Guayaquil for the first six months of 1909 aggregated 41,747,587 pounds, as compared with 35,128,411 pounds during the same period of 1908. The approximate value of the crop marketed during the first half of the present year was \$4,383,497. There is a large quantity of undeveloped lands in the Republic that are well adapted to the raising of this valuable product.



MOUNT CHIMBORAZO, ECUADOR, AS SEEN FROM THE NORTH.

This vast mountain is located about 90 miles from Quito. Its top, which is over 20,000 feet above sea level, is covered with perpetual snow and presents a magnificent spectacle when seen from the shores of the Pacific Ocean, 110 miles distant.

## EXPORT OF HIDES FROM GUAYAQUIL, FIRST SIX MONTHS OF 1909.

Consul-General HERMAN R. DIETRICH reports that the total number of dry hides of neat cattle exported from Guayaquil during the first six months of 1909 was 37,190, weighing 347,530 kilograms, valued at \$110,000. Of the total number exported New York received 31,637, and the balance were consigned to Europe.



**EXPENSES OF TRADE-MARK REGISTRATION.**

The trade-mark law now in force in Ecuador provides, when the application for a trade-mark sought to be registered is found to be formally correct, that it shall be published weekly in the official newspaper of the Government, for which a charge is now made of 140 sucres (\$68.18) per trade-mark.

**CONCESSION FOR THE EXPLOITATION OF VEGETABLE IVORY.**

The Government of Ecuador has granted to Dr. ISMAEL VELASQUEZ DEL VALLE the exclusive privilege to exploit the tagua or vegetable-ivory industry in the Province of Manabi for a period of six years.

**LIGNITE.**

An extensive deposit of lignite, situated on both sides of the Pusqui River in the Province of Pichincha, Ecuador, has been discovered by Mr. MANUEL ANTONIO FRANCO, who has denounced the same in accordance with the mining laws of the Republic.

**PROPOSED RAILWAY FROM PORT VARGAS TORRES TO IBARRA.**

A contract, subject to the approval of the Congress, has been made by the Government with HERMANN & SCHMIDT for the construction of a broad-gauge road from Port Vargas Torres to Ibarra, a distance of about 200 kilometers. The concessionaires agree to organize a company in Europe or the United States with a capital of £1,000,000. The full text of the contract is contained in the "Registro Oficial" of July 5, 1909.

**RAILWAY CONSTRUCTION IN THE REPUBLIC.**

The Guatemala Railway Company has contracted with the Federal Government to build a railway from Zacapa to the frontier of El Salvador, active construction to begin about the end of the present year. This line will be extended, under a concession from the Government of Salvador, to Santa Ana and Ahuachapan, and from the former point to La Union, in the south of El Salvador, via Cojutepeque, San Vicente, Usulután, and San Miguel. Some years ago a line was built from La Union to San Miguel, Salvador, but later on was abandoned. This section of the line will be reconstructed, and the remainder of the line in Salvador will be built as soon as the

Zacapa line in Guatemala reaches the Salvadorian frontier, the grading and masonry work being done in the meantime, so that track laying in Salvador can be continued without delay immediately on the arrival of the Zacapa line at the frontier. This line will form an important link of the proposed Pan-American Railway.

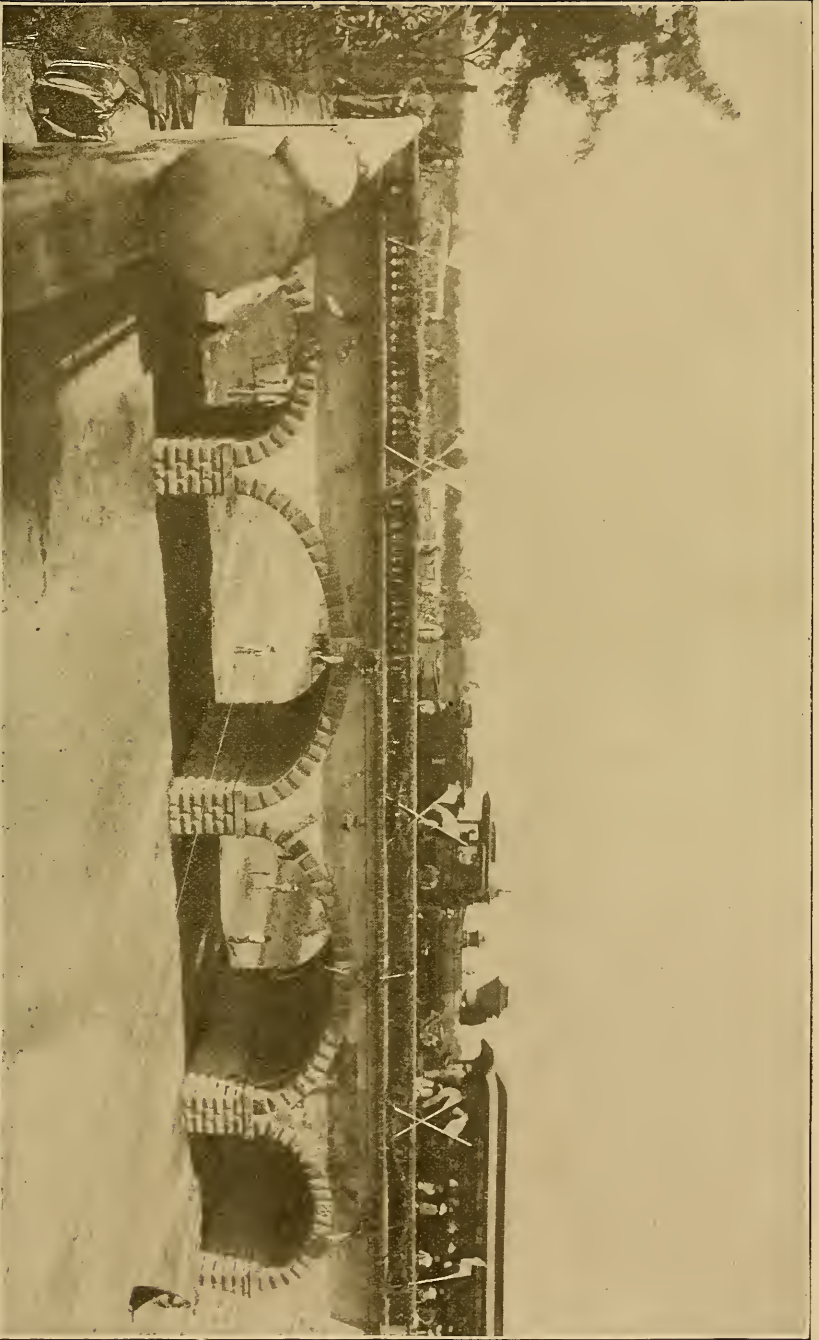
One of the most important railway concessions recently granted by the Government of Guatemala to the Guatemala Central Railway Company is that of the line which will run from Coatepeque, Guatemala, to the Mexican frontier, and which will form another link in the great Pan-American system. Construction of this line will begin on the completion of the road from Caballo Blanco to Coatepeque in the Republic of Guatemala.

Within the last fifteen months the Guatemala Central Railroad Company has acquired a controlling interest in the Occidental Railway, and has purchased the concession for the construction of a railway from Caballo Blanco to Coatepeque. A preliminary survey has been made of the railway from Coatepeque to Ayutla, on the Mexican frontier, a distance of about 35 miles, and it is expected that the construction of the line will be completed within two years.

A recent communication of the Guatemala Central Railroad Company to Mr. WILLIAM HEIMKE, American Minister to Salvador, states that when these lines are completed, there will be a continuous rail service from the frontier of Mexico, through Guatemala to Salvador. A more direct route would be the continuation of the coast line of the Guatemala Central Railroad Company from Santa Maria to some convenient point on the Salvador frontier. At present the traffic of that section of the country would probably not pay an equitable return on the capital necessary for the construction of such a road. Eventually, however, conditions will undoubtedly change, and it is safe to predict that at no distant date concessions for such a line will be sought, and, if obtained, the road constructed. This, perhaps, would be a more complete realization of the Pan-American idea, and would afford a more direct railway connection between Mexico, Guatemala, and Salvador.

#### BANANA CULTURE NEAR PUERTO BARRIOS.

The United Fruit Company has planted in the Department of Izabal, Guatemala, about 20 miles from Puerto Barrios on the line of the Guatemala Northern Railway, more than 9,000 acres in bananas, and will clear and plant a greater area. The yield of bananas in Guatemala is, approximately, 15 bunches per month per acre. The development of the banana industry in the neighborhood of Puerto Barrios will, in the near future, greatly increase the shipments of bananas from that port. The United Fruit Company has erected a number of attractive houses, provided with modern conveniences and sanitation, for the use of the employees of the company.



OPENING OF A VIADUCT OVER THE "PASEO LA REFORMA" ON THE GUATEMALA CENTRAL RAILWAY IN GUATEMALA CITY.

# HAITI

## NEW MEMBERS OF THE CABINET.

The following persons have been appointed members of the Cabinet in Haiti:

Mr. CANDELON RIGAUD, Secretary of Finance and Commerce.

Mr. JÉRÉMIE, Secretary of Interior and Police.

Hon. PÉTION PIERRE ANDRÉ, Secretary of Agriculture and Public Works.

Mr. JEAN CRYSTOSTOME ARTEAUD, Secretary of Justice and Worship.



WATER FRONT AT PORT DE PAIX, HAITI.

The town is located on the strait between the island and Tortuga, about 35 miles from Cape Haitien.

# HONDURAS

## COMMERCE OF MOBILE WITH HONDURAS IN 1908.

Honduras exported to the United States, through the port of Mobile, in 1908, products to the value of \$679,039, consisting of bananas, amounting to \$617,608; cocoanuts, \$47,184; coffee, \$12,573, and sundry other articles to the amount of \$1,674. During the same period the United States exported to Honduras, through the same port, merchandise amounting to \$75,570.19, made up of cotton fabrics valued at \$25,848.76, lumber \$16,177.24, and flour and wheat \$13,005.79.

**CONSTRUCTION OF JETTIES AT THE MOUTH OF THE ULUA RIVER.**

The Government has contracted with WILLIAM H. COE, of New York, for the construction of a canal or jetties 12 meters wide and 1 meter 10 centimeters deep at low tide at the mouth of the Ulua River, in the Department of Cortes. The contractor has the right to construct a wharf, storehouses, and other buildings alongside the canal and to charge private parties for their use and for the use of the canal. Construction material for these works will be admitted without the payment of customs duties. The concession is valid for a period of twenty years.

**CHARGES FOR RECORDING DEEDS AND DOCUMENTS.**

According to decree No. 61 of the present year, the schedule of charges for the registration of deeds and documents in Honduras is as follows:

Amount of the consideration.	Charges for re-cording.
Up to \$50.....	\$1.00
Over \$50 to \$100.....	2.00
Over \$100 to \$500.....	3.00
Over \$500 to \$1,000.....	5.00
Over \$1,000 to \$5,000.....	10.00
Over \$5,000 to \$10,000.....	15.00
Over \$10,000 to \$20,000.....	20.00
Over \$20,000 (plus a surcharge of \$3.00 for each additional \$1,000 or fraction thereof).....	25.00
For recording deeds or documents of whatever kind, whose value is not specified.....	10.00

**LAW GOVERNING PRISONS.**

The law relating to and governing the prisons of the Republic, decree No. 129, consisting of 84 articles, was promulgated by the President on April 21, 1909, and published in the Gaceta Judicial of Tegucigalpa on May 14 and 18 of the same year.

**BUDGET FOR FISCAL YEAR 1909-10.**

The receipts of the Republic of Honduras for the fiscal year 1909-10 are estimated at \$4,714,064.92 silver, the estimated expenditures aggregating the same amount. The estimated receipts consist of—

	Silver.
Import duties.....	\$1,800,000
Export duties.....	142,500
Taxes on liquors and tobacco.....	1,750,000
Miscellaneous.....	1,021,500

**NATIONAL RAILROAD AND WHARF AT PUERTO CORTES.**

The President of Honduras has appointed JUAN E. PAREDES to receive the National Railway and wharf at Puerto Cortes in accordance with the contracts made with the latter gentleman.

## ESCOBALES MINING ZONE.

The Government of Honduras has granted to the New York and Honduras Rosario Mining Company the Escobales mining zone, situated in the district of Tegucigalpa and consisting of 1,000 hectares.

## ARBITRATION AND EXTRADITION TREATIES WITH BRAZIL AND MEXICO.

President DAVILA has appointed Dr. MANUEL F. BARAHONA to negotiate an Arbitration Treaty with Brazil, and Mr. LUIS LAZO A to effect the exchange of ratifications of the Treaty of Extradition made with Mexico on March 24, 1908.



## TOBACCO LANDS.

Mexico's best tobacco lands, according to a report of WILLIAM W. CANADA, American Consul at Veracruz, are contained in a belt about 500 miles long, extending from the Tuxpan River, in the northern part of the State of Veracruz, southward to the Republic of Guatemala. Much of this land is exceedingly fertile, and will produce from 3,000 to 4,000 pounds of tobacco per acre.

The famous San Andres Tuxtla plantation, situated in a district of the same name, grows a tobacco which rivals in fragrance and quality the noted Vuelta Abajo tobacco of Cuba. This district produces about 180,000 pounds of tobacco annually, about seven-tenths of which are exported. Many foreigners are engaged in the cultivation of tobacco in this region. A native planter describes the cultivation of this plant in the following words:

I am working 170 acres of tobacco land and 30 acres of grazing and forest lands for which I pay a yearly rental of \$1,600. On the 170 acres I set out 3,000,000 plants in September and October, working with 80 laborers, whom I pay at the rate of 38 cents per day. The plantation is cleared of weeds twice in 90 days, at a cost of about \$850. The 3,000,000 plants produced this year 100,000 pounds of tobacco, that cost cured and packed about 16 cents per pound, and for which I expect to receive at least 20 cents a pound, or a gain of about \$4,000 for my year's work.

An excellent quality of tobacco is raised throughout the entire belt. In 1908 the exports of tobacco through the port of Veracruz consisted of 3,751,000 pounds, valued at \$899,000, of which 96,500 pounds invoiced at \$95,000, went to the United States.

**RAMIE FIBER.**

The plant which produces the ramie fiber is popularly known as China grass. This fiber, the demand for which is constantly increasing, is one of the finest and strongest vegetable fibers, out of which gossamer cloth, canvas sails, and numerous other articles are manufactured. The cultivation of the plant requires an even temperature and a moist heat, such as are found in Yucatan, the center of the ramie fiber industry in Mexico. The stems of the plant grow to a height of 5 or 6 feet, and are of the thickness of one's finger. Chemical treatment is necessary before the fiber can be used in the looms. The plant, which is harvested every six months, is cultivated 4,000 to the acre, and yields annually about 65,000 pounds, or a net annual income per acre of from \$90 to \$100.

**NEW MEXICAN RAILWAY.**

The Southern Pacific Railway Company of Mexico has been incorporated in New Jersey with a capital stock of \$75,000,000 for the purpose of taking over concessions of the Mexican Government for the construction and operation of about 1,500 miles of railroad.

The new company, which will be a subsidiary of the Southern Pacific Company, will take over the various roads which the Southern Pacific is constructing in Mexico, comprising a main line from Nogales, Arizona, through Guaymas and Mazatlan to Guadalajara, Mexico, where it will connect with the Mexican Central Railway, running to the City of Mexico. Another line will extend from Douglas, Arizona, to a junction with the main line at Corral, and one of the smaller lines projected will connect Nogales with Douglas, touching Cananea.

The company will receive subsidies from the Mexican Government aggregating about \$10,000,000. The total cost of construction, including equipment, is estimated at about \$70,000,000.

**VANILLA.**

Mexican vanilla enjoys the reputation of being the best in the world, and sells at a higher price than that grown in any other country. Papantla and Misantala, in the State of Veracruz, are the great vanilla-producing districts of the Republic. The bean grows on a hop-like vine which yields a good crop the third year after planting. The pods are picked from October to January, and great care must be used to prevent bruising. In Mexico the bean is cured by the buyers. Mr. WILLIAM W. CANADA, United States Consul at Veracruz, states that for the ten years ended with 1908 the value of the vanilla shipped from that port to the United States was \$2,154,503, and that a considerable quantity during that period was exported through other

ports. Owing to the fall in the price of the bean since 1902 the vanilla industry in Mexico has remained stationary. While vanilla cultivation requires less labor than coffee, it is necessary to use a higher grade of labor, and this fact renders the cultivation of the former more difficult than that of the latter.

#### COTTON CULTIVATION IN THE VALLEY OF THE LOWER RIO GRANDE.

Mr. C. A. MILLER, American Consul at Matamoros, Mexico, reports that the cotton yield on the Mexican side of the lower Rio Grande Valley for the present year was  $1\frac{1}{2}$  bales to the acre. The Mexican Government is encouraging the development of the agricultural resources of the country by the payment of subsidies for the furthering of irrigation projects, \$12,500,000 having been appropriated for that purpose, a large amount of which will probably be expended in the Matamoros district.

#### TULA IRON MINES AND FOUNDRY.

The Tula iron mines and foundry, with approximately 125,000 acres of land, and timber aggregating more than 1,000,000,000 feet, situated in the Tapala district, State of Jalisco, have been sold to a Boston syndicate capitalized at \$5,000,000. A modern steel plant and implement factory will be erected. This company, whose president is GEORGE H. MERRILL, will be known as the Mexican Iron and Steel Company.

The Tula iron mines are noted throughout Mexico for the production of some of the finest iron in the country. The mining and smelting of iron ore have been carried on there at intervals for more than a century. There are two immense deposits, and a combination of the ore produces an iron said to be equal in every respect to the celebrated iron of Norway. Smelting furnaces will be erected at the mines, and the steel plant at the most convenient location on the property. A railroad will deliver the pig iron from the smelting furnaces to the steel plant, and connect with the Manzanillo line of the national railways. Rivers crossing the Tula property offer opportunities for the development of several thousand horsepower, and these natural resources will be taken advantage of by the syndicate. The timber will be turned into charcoal as needed for the iron industry, and new forests will be started to perpetuate the timber supplies.

The Tula tract includes thousands of acres of agricultural lands, and the agricultural possibilities will not be neglected. A large quantity of water can be stored during the rainy season for irrigation purposes. The development of the properties will be of great benefit



to the Republic, and especially to the State of Jalisco. The Mexican market will be supplied with many articles now imported, and exports will be made to other countries through the Pacific port of Manzanillo.

#### NAVAL ACADEMY AT VERACRUZ.

Capt. MANUEL AZUETA, Director of the Naval Academy at Veracruz, states, in a communication to the "Mexican Herald," that it is the intention of the Mexican Government to soon begin the construction in the port of Veracruz of a naval academy modeled after the Naval Academy at Annapolis. The building will be sufficiently large to permit of all kinds of technical naval training, and will cost \$500,000.

#### RAILROAD TERMINALS AT THE PORT OF VERACRUZ.

The harbor improvements of Veracruz were completed in 1902. In 1907 the Terminal Company was organized in London, under a concession from the Mexican Government, with a capital of £1,000,000, for the purpose of filling in the lowlands adjoining the wharves, erecting buildings, and making the necessary improvements for the rapid and proper handling of freight by the transportation companies.

Among the plans now in process of realization is the erection of a new union station of reenforced concrete, two stories high, with a frontage of 100 meters on the sea, provided with two wings of 50 meters each, and an open center that will be roofed for the use of incoming and outgoing trains. The first floor of the edifice will be fitted up with waiting, baggage, and express rooms, a restaurant, barber shop, telegraph office, bar, and baths, while the second floor, consisting of twenty-eight large rooms and eight baths, will be used as a hotel and office building. The new station will cost 450,000 *pesos* (\$225,000), will front a park, and will be connected with the city of Veracruz by electric tramways.

A two-story bonded warehouse, 125 by 26 meters, is now under construction. This building will be of stone and cement, will cost 175,000 *pesos* (\$87,500), and will be under the direction of the Bonded Warehouse Company.

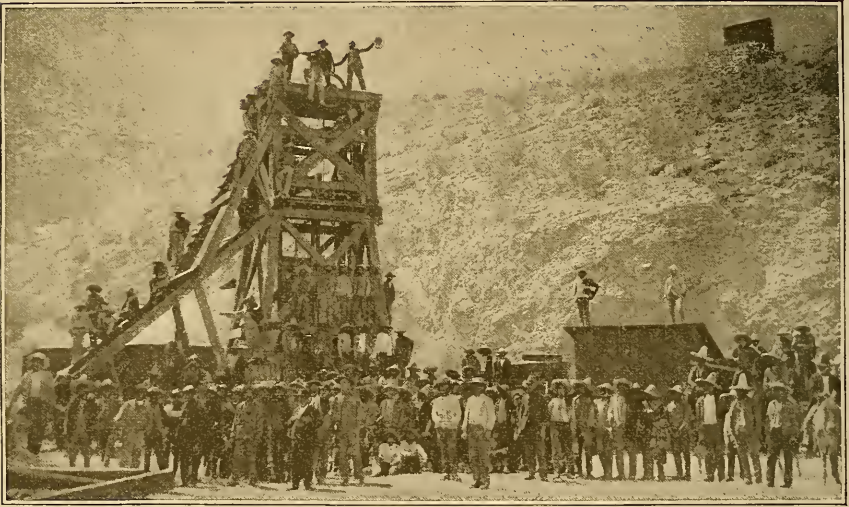
A fine macadam road 1,800 meters in length connects with the outlying sections of the city. The latest improved electric cranes will be installed on the pier for the purpose of hoisting a cargo out of the ship's hold and transferring it to the cars or warehouses. The terminal and yards will be lighted by electricity, and operations may be carried on at any time during the day or night. The entire terminal plant is to be completed and delivered within two years at a total cost of 8,000,000 *pesos* (\$4,000,000).

## INCREASE OF DUTY ON WHEAT.

An executive decree of June 9, 1909, cancels the decree of March 27 of the same year reducing the duty on imports of wheat to 1 *peso* per 100 kilograms, and restores, on and after September 15 of the present year, the former duty of 3 *pesos* per 100 kilograms imposed by decree of November 26, 1908.

## INSTITUTE OF MINES AND METALLURGY.

The Mexican Institute of Mines and Metallurgy, a society similar to that of the American Society of Civil Engineers, has been organized in the City of Mexico. Spanish is the official language of the institute, and the membership consists of active, associate, and honorary members.



SHAFT OF THE VETA RICA SILVER MINE AT SIERRA MOJADA, MEXICO, SHOWING A LARGE NUMBER OF THE MINERS, FOREMEN, AND OTHER EMPLOYEES.

## CENTENNIAL CELEBRATION.

The Republic of Mexico will celebrate the centennial of its independence on September 14, 15, and 16, 1910. Committees have been appointed and steps will be taken to make the celebration the occasion for the spontaneous demonstration of national patriotism by means of civic processions, literary contests, and popular festivities. The national committee will open a contest for the composition of a patriotic hymn to be sung in every city of the Republic on the night of September 15, 1910, in commemoration of the *grito* (cry) of independence of the nation, and medals will be struck off in honor of the event. Mr. GUILLERMO LANDA Y ESCANDON, of Mexico City, is the president of the national delegation for the arrangement of the programme.

**THROUGH PULLMAN SERVICE FROM SALINA CRUZ TO NEW YORK.**

A six-day through Pullman service from Salina Cruz, Mexico's most southern port, to New York has been established, with changes only at Mexico City and St. Louis. The splendid port of Salina Cruz is only sixteen days by steamer from Valparaiso, Chile. This route promises to be a quick and popular one for passenger traffic from the west coast of South America to New York and European points.

**STEEL RAILS.**

The Pearson Company has ordered 3,000 tons of 70-pound steel rails with which to replace the 45-pound rails on 52 kilometers of track of the Sierra Madre and Pacific road near Temosachic.

**MODEL ABATTOIR AT GUADALAJARA.**

The construction of the buildings for a model abattoir, packing house, cold-storage plant, and stock yards in the city of Guadalajara, Mexico, will be commenced next November. The site covers an area of 34,000 square meters, and the abattoir is expected to be ready for use in the slaughtering of cattle in June, 1910. The plans, which have been approved by the state government, call for the most modern and up-to-date equipment. It is estimated that the construction will cost about \$113,000.

**MEXICO NORTHWESTERN RAILROAD.**

The Pearson railroad interests of northwestern Mexico, representing the Chihuahua and Pacific Line, which runs from the city of Chihuahua to Temosachic, a distance of 173 miles; the Sierra Madre and Pacific Railroad, 32 miles in length, connecting Temosachic with Madera; and the Rio Grande, Sierra Madre and Pacific, extending 156 miles in a southwesternly direction from Ciudad Juarez to Terrazas, have begun construction of a connecting link between Madera and Terrazas, a distance of about 160 miles. The completion of this branch will insure ready access to the timbered districts and mineral belts of that section of Mexico.

**CONCESSION FOR SLAUGHTERHOUSE.**

Mr. FRANCISCO ARISPE Y RAMOS, of Saltillo, Mexico, has been granted a concession for the construction and operation of a public slaughterhouse at Sabinas, State of Coahuila. The capital invested in the enterprise is exempt from state and municipal taxes for a period of fifteen years.

**ELECTRIC LIGHT AND POWER PLANT.**

A twenty-year concession, which is exempt from state and municipal taxation, for the establishment of an electric light and power

plant in the town of General Cepeda, State of Coahuila, Mexico, has been granted to Mr. A. C. TREVIÑO. The capital to be invested is not to be less than \$3,750.

#### BRICK MANUFACTORY.

A concession for the establishment of a brick manufactory at Monclova, Coahuila, has been granted to Mr. JOSÉ M. TEJADA. An investment of \$7,500 will be made in the enterprise.

#### NEW TELEPHONE LINE.

Mr. JOSÉ G. MADERO has been granted a concession for the construction and operation of a telephone line between Saltillo and Torreon, State of Coahuila, Mexico, a distance of about 125 miles, with the privilege of building a branch line to San Pedro de las Colonias in the same State. The enterprise is exempt from state and municipal taxes for a period of ten years.

#### COMMERCE OF TAMPICO IN 1908.

The foreign commerce of Tampico, Mexico, in 1908, was: Exports, \$78,546,695; imports, \$12,046,840. The United States received nearly 75 per cent of the exports and furnished 46 per cent of the imports.



#### SANITARY REGULATIONS.

Nicaragua has an international sanitary convention with Guatemala, Mexico, Peru, Santo Domingo, Venezuela, United States, Cuba, Costa Rica, and Chile, the object of which is to prevent the introduction and spread in the Republic of yellow fever, bubonic plague, and cholera. The Republic has no sanitary code, but there are sanitary laws and regulations governing railways, street cars, hearses, barber shops, the disposal of the remains of dead animals, and the construction works on private property. The Department in which the capital is situated and the city of Managua have special sanitary laws. The municipal government of Managua appoints a board of health, which has charge of the sanitation of the city. At the present time a large ditch or canal is being constructed for the purpose of carrying off the surplus water which runs down from the mountains in the rainy season and at times partially inundates the city, causing a loss of life and property. This ditch crosses Managua from north to south and empties into the lake. The city of Managua

has taken steps to erect a plant for burning waste and garbage, and the other principal cities of the Republic dispose, or will dispose, of their garbage in the same manner.

#### CONSULAR INVOICES.

On June 19, 1909, President ZELAYA issued a decree, which became operative on August 19 of the same year, providing that consular invoices be numbered consecutively, beginning with No. 1, and give the exact date and number of one or more bills of lading of the merchandise to which they refer. If the invoice presented for registration lacks this requisite, the consul must supply it in a signed certificate. Bills of lading covering merchandise destined to Nicaragua must show date and number of the consular invoice in which said merchandise is comprised. The lack of reference to date and number between consular invoices and respective bills of lading implies want of identity, and presumes the absence of the document, which is punishable in accordance with the law, but should identity result in the packages, marks, numbers, and contents, ports of origin and destination, then the omission is punishable only by a fine of 10 per cent of the amount of import duty to be paid.



#### THE SUGAR INDUSTRY.

ERNEST SHIPMAN, in a recent article published in the "Panama Star and Herald," states that there is no region of the world where sugar can be produced at less expense than in Panama, where the cane fields yield 40 tons of cane per acre with a sugar extraction of 11½ per cent, as compared with a production in Cuba of 21 tons to the acre and an extraction of 9.7 per cent. In Java the product is 34 tons per acre, and in the United States, where a liberal use of high-grade fertilizers is made, about 11 tons per acre is produced, with the necessity in the latter country of planting the crop every year, while in Panama the cane grows continuously for a period of fifteen years without planting.

The same article says that:

Panama produces little of the sugar it uses, importing it from Salvador, Peru, and Costa Rica. The Panamanian Government has passed laws to protect the home product by a high tariff. An *ad valorem* duty of 15 per cent is now imposed on imported sugar, which in the last six months reached 1,646,000 kilos. The profits from a rum and cane alcohol distillery will pay all the expenses of the manufacturing plant, thus permitting the sugar yield to be almost a net profit. The Government, to encourage this industry, will permit all necessary machinery and agricultural implements to be imported free of duty.

Panama also offers exceptional possibilities for colonization, and colonists can sublease small farms of from 10 to 100 acres on exceedingly advantageous terms, and with exceptional prospects of reaping a large profit from the proper cultivation and exploitation of the same.

#### **BAYANO RIVER AGRICULTURAL CONCESSION.**

The Bayano River agricultural concession, consisting of 12,500 acres of fine agricultural land, granted to JOHN F. WICHERS, an American citizen, some time ago, has been transferred to a syndicate of foreign capitalists, who will incorporate under the laws of Panama with a capital of \$500,000. The district in which this concession lies is especially suited to agricultural exploitation, and the tract of land referred to will be developed by the syndicate along agricultural lines. This is one of the largest foreign companies that have, up to the present time, incorporated under the laws of the Republic.

#### **TOBACCO INDUSTRY.**

A tobacco manufacturing company with a capital of \$25,000 was recently formed in the city of Panama, for the manufacture at the present time of leaf and plug tobacco and later on of cigars, cigarettes, and smoking tobacco. The company is now operating a small establishment, but a large factory will be built and completely fitted up with the most approved and modern machinery, and an effort will be made to supply the people of Panama with a large part of the tobacco consumed in the Republic. The "Panama Star and Herald" says that the company is at present using imported tobacco, but that seeds are being distributed gratis to responsible persons desiring to grow tobacco, and if it is shown that a good quality of tobacco can be grown on the Isthmus, agriculturists will be encouraged to actively take up the cultivation of the plant in the most suitable zones for tobacco culture in the Republic.

#### **DECREE SUSPENDING THE NATURALIZATION OF CHINESE, SYRIANS, AND TURKS.**

A recent executive decree suspends indefinitely the naturalization in the Republic of Panama of Chinese, Syrians, and Turks.

#### **COAL AND PETROLEUM DEPOSITS.**

The Government of Panama has granted a concession to exploit coal and petroleum deposits recently discovered in the District of Los Santos near the Tonosi River. Samples of coal obtained from the outcropping veins of these deposits compare favorably with the best grades of bituminous coal of the United States. The coal deposits on the land referred to are estimated to be worth \$500,000.

# PARAGUAY

## RAPID WEEKLY COMMUNICATION WITH BUENOS AIRES.

The transportation companies of Buenos Aires inaugurated in July, 1909, a rapid weekly transportation service between Buenos Aires and Asuncion. The journey can now be made in fifty-five hours instead of one hundred, as formerly. The trip is by rail from Buenos Aires to Barranqueras, and from there by boat to Asuncion and intermediate points. The single fare is \$47.73, or \$81.09 for the round trip.

# PERÚ

## MESSAGE OF THE PRESIDENT.

On July 28, 1909, President LEGUIA delivered an interesting message to the Federal Congress, in which he stated that the Government had done all within its power to strengthen the bonds of amity and good will existing between Peru and the other nations of the world.

The protocol recently signed by the representatives of Peru and Colombia stipulates that the two Governments in interest shall renew their negotiations concerning the boundary as soon as the King of Spain renders his decision regarding the Putumayo question.

The Government is encouraging the cause of education. Normal schools for both sexes are maintained, and the primary schools in 1908 numbered 2,339, with a corps of 3,105 teachers and 162,298 matriculates. The policy of the administration is to improve and perfect the school system of the Republic in so far as possible.

The budget for 1908 estimated the revenues of the nation at £2,997,443. The actual receipts for the year were £2,861,300, or a deficit of £136,143.

The foreign commerce of the Republic in 1908 amounted to £10,671,337, consisting of imports to the value of £5,295,625 and exports aggregating £5,375,712.

Mining operations are suffering temporarily from the fall in the price of copper and silver, but indications point to a considerable improvement in this industry in the near future.

The development of agriculture is being encouraged, and the agricultural schools and experimental stations instituted by the Government have been of vast assistance in the promotion of the agricul-

tural industry of the nation, and especially in the cultivation of sugar cane and cotton and the great industries of viniculture and stock raising.

The State proposes to construct irrigation work and to encourage European immigration, furnishing agricultural colonists with small lots of irrigated lands at a trifling cost and on easy terms.

The Government has contracted for the survey of a railroad from Paita on the Pacific coast, to Marañon in the Amazon basin, and the preliminary survey will be completed in December of the current year. The President recommends that the proposed railroad from Cerro de Pasco to Ucayli receive a subvention of £3,000,000 in 5 per cent interest-bearing bonds. The railroads from Ilo to Moquequa, Tumbes to Puerto Pizarro, and Yonan to Chilete will soon be completed, and those from Lima to Huacho, Huancayo, and Ayacucho, and from Chimbote to Recuay are in process of construction.

The Executive was pleased to announce that the Medical Congress held in Guatemala in 1908 had selected Lima as the place of its next meeting in 1911.

The postal and telegraph service of the country continues to improve. To the 593 post-offices in the Republic in June, 1908, new offices have been added to the number of 46, and 23 new telegraph offices were established since said date, making 178 as the total number of telegraph offices now in operation. The receipts from posts during the year were £81,384, and from the telegraph service £21,770. From July 30, 1908, to May 30 of the present year 1,211 kilometers (751 miles) of telegraph line were strung, making the total extent of the telegraph lines of the Republic 9,654 kilometers (5,986 miles). The erection of wireless-telegraph stations on the coast is contemplated.



#### ARBITRATION TREATY WITH THE UNITED STATES.

The arbitration treaty with the United States, signed in Washington, December 21, 1908, was ratified by Salvador on June 14, 1909, and exchange of ratifications were made in Washington on July 3, 1909. The treaty will continue in force for a period of five years.

#### NEW STEAMSHIP LINE BETWEEN SALVADOREAN AND MEXICAN PORTS.

The Salvador Railway announces that the first of the steamers to ply between the Salvadorean and Mexican ports of the Pacific coast will be inaugurated between Salina Cruz, Mexico, and Acajutla,



Salvador, on November 1, 1909. Two fast mail and passenger steamers will be used for the present, but the number will be increased later, should the freight and passenger traffic warrant the use of more vessels in the handling of the trade.

#### ARRIVAL OF VESSELS, FIRST QUARTER, 1909.

During the first quarter of 1909, 26 seagoing vessels arrived at the ports of Acajutla, La Libertad, and La Union, with a cargo of 102,962 packages.

#### COMMERCIAL AGRICULTURAL BANK.

The authorized capital of the Commercial Agricultural Bank at the close of the first half of 1909 was \$5,000,000 silver; the paid up capital, \$1,000,000 silver; the reserve fund, \$100,000 silver; the contingent fund, \$157,396.75 silver; and the net profits, \$71,305.98 silver.

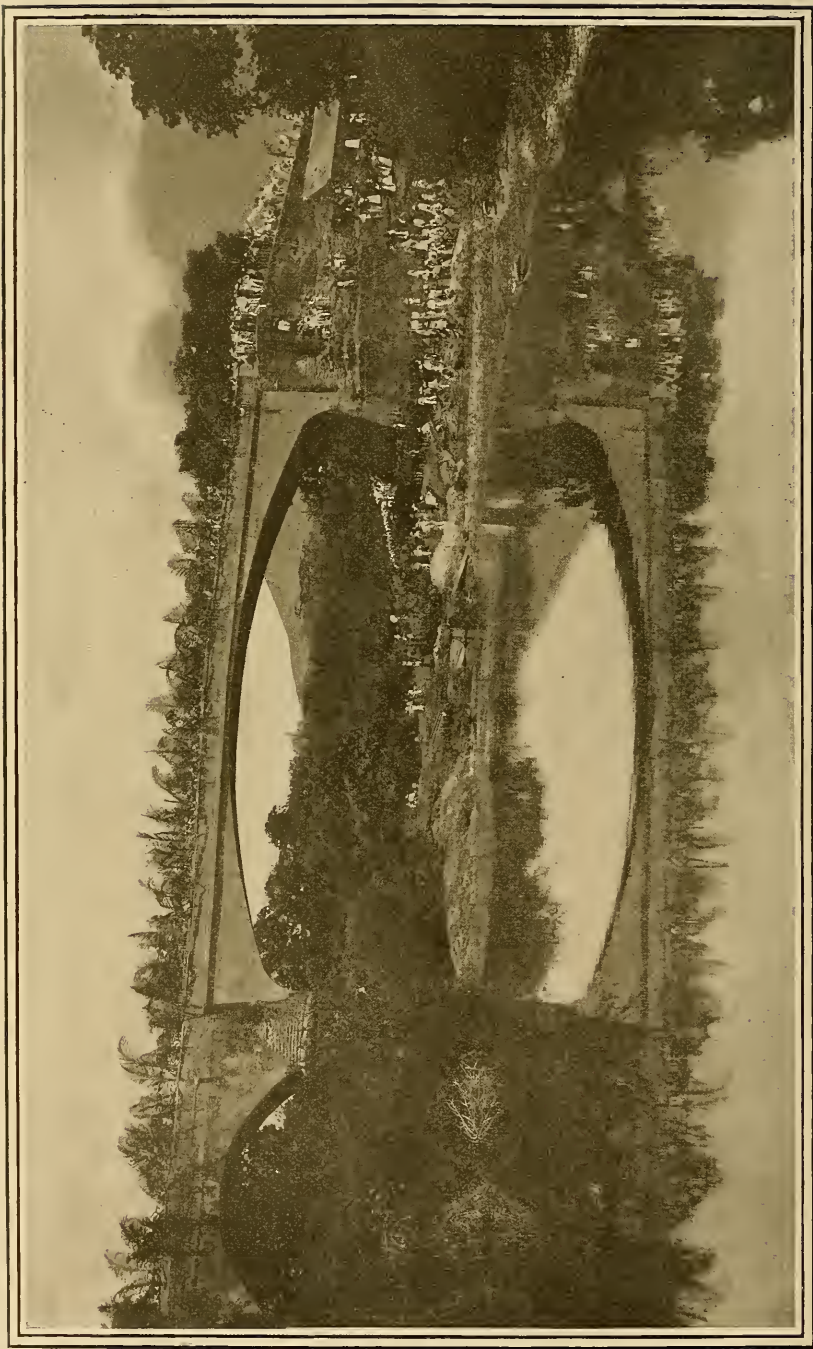
#### EXPORTS IN 1908.

The "Diario Oficial" of July 23, 1909, publishes a detailed statement of the exports of the Republic for 1908, showing the following résumé by countries:

	Silver.
Germany -----	\$1, 724, 803. 59
Austria-Hungary -----	544, 289. 65
Belgium -----	900. 00
Brazil -----	30, 000. 00
Costa Rica -----	49, 859. 41
Curacao -----	2, 500. 00
Chile -----	19, 782. 40
Ecuador -----	89, 156. 30
Spain -----	270, 526. 45
United States -----	1, 214, 287. 69
France -----	1, 180, 096. 95
Great Britain -----	319, 586. 00
Guatemala -----	15, 230. 74
Holland -----	16, 000. 80
Honduras -----	87, 915. 00
Italy -----	695, 987. 20
Mexico -----	25, 700. 00
Nicaragua -----	33, 616. 32
Norway -----	31, 423. 60
Panama -----	326, 463. 80
Peru -----	70, 264. 00
Sweden -----	133, 535. 00
Total -----	6, 882, 024. 90

#### SANTA TECLA AVENUE.

One of the most timely improvements now being made in the city of San Salvador is the construction of the broad and beautiful avenue



PUENTE MARAZON IN SALVADOR.  
This new bridge over the Rio Grande de San Miguel marks the line of the new Pan-American Railway.

URUGUAY		LOCATION OF DEPARTMENTS	
POPULATION 1,111,758		POPULATION PER SQUARE MILE 15.22	
MONTEVIDEO	310,918	MONTEVIDEO	AREA 156
CANELONES	98,798	MINAS	AREA 4,184
LACOLONIA	59,472	FLORIDA	AREA 4,675
PAYSANDÚ	52,814	ARTIGAS	AREA 4,392
FLORIDA	52,434	ROCHA	AREA 4,280
SALTO	52,069	RIVERA	AREA 3,790
SAN JOSÉ	49,055	TRENTA Y TRES	AREA 3,686
SORIANO	44,805	SORIANO	AREA 3,560
TACUAREMBO	44,525	LA COLONIA	AREA 2,192
MINAS	44,071	CANELONES	AREA 1,833
DURAZNO	43,757	FLORES	AREA 1,744
CERRO LARGO	42,757	FLORIDA	AREA 1,744
RÍO NEGRO	37,218	ROCHA	AREA 35,862
ROCHA	35,862	ARTIGAS	AREA 33,061
ARTIGAS	33,061	MALDONADO	AREA 31,667
MALDONADO	31,667	TRENTA Y TRES	AREA 30,433
TRENTA Y TRES	30,433	RIVERA	AREA 29,055
RIVERA	29,055	FLORES	AREA 19,012
FLORES	19,012	MONTEVIDEO	AREA 156

NOTE:  
FIGURES GIVE  
AREA IN SQUARE  
MILES.

19 DEPARTMENTS

of Santa Tecla, which will unite the latter place, locally known as the "City of Flowers," with the most picturesque part of the suburbs of the capital of the nation.

## URUGUAY

### INCREASE IN THE CAPITAL OF BANK OF THE REPUBLIC.

The executive power has issued a decree increasing the capital of the Bank of the Republic by \$295,161.24, in accordance with the law of November 17, 1908, which destines the net balance of the profits of that year, after the payment of certain claims, to increase the capital of the bank.

### NEW ISSUE OF NICKEL COIN.

The Federal Congress has decided to issue a new coinage of nickel to the amount of \$500,000.

### MONTEVIDEO TRAMWAY RETURNS, FIRST FIVE MONTHS OF 1909.

The electric tramways of Montevideo carried from January to May, inclusive, 1909, 22,851,758 passengers, as compared with 14,686,289 in 1908. During the same period the horse tramways carried 1,199,359 passengers as compared with 5,181,512 passengers during the same period in 1908. The distance run by the electric cars for the five months referred to amounted to 8,515,084 kilometers, while the distance run by the horse traction aggregated 519,312 kilometers.

## VENEZUELA

### NEW CONSTITUTION.

The "Official Gazette" of August 5, 1909, published in Caracas, contains the full text of the new constitution of the Republic of Venezuela, promulgated by President GOMEZ on August 5 of the present year. The new constitution, which contains 147 articles, repeals the constitution of April 27, 1904.

Under the former constitution the political divisions of Venezuela consisted of 13 States, a Federal District and 5 Territories; under the new constitution of 20 States, a Federal District and 2 Territories, as

follows: The States of Apure, Aragua, Anzoátegui, Bolívar, Carabobo, Cojedes, Falcón, Guárico, Lara, Monagas, Mérida, Miranda, Nueva Esparta, Portuguesa, Sucre, Táchira, Trujillo, Yaracuy, Zamora, and Zulia; the Territories of Amazonas, and Delta Amacuro, and the Federal District.

For the sake of uniformity in the transaction of the public business, the new constitution places the administration of the mines, salt deposits, and public lands in the hands of the Federal Government, as it likewise does the revenues derived from the tax on aguardiente, and specially prohibits the States from coining money and the issuance of paper money for any purpose whatever. It prescribes that foreigners who take part in the politics of the nation incur the same responsibility as Venezuelans; and for the contravention of the laws of the Republic are liable to arrest, imprisonment, and expulsion from the country.

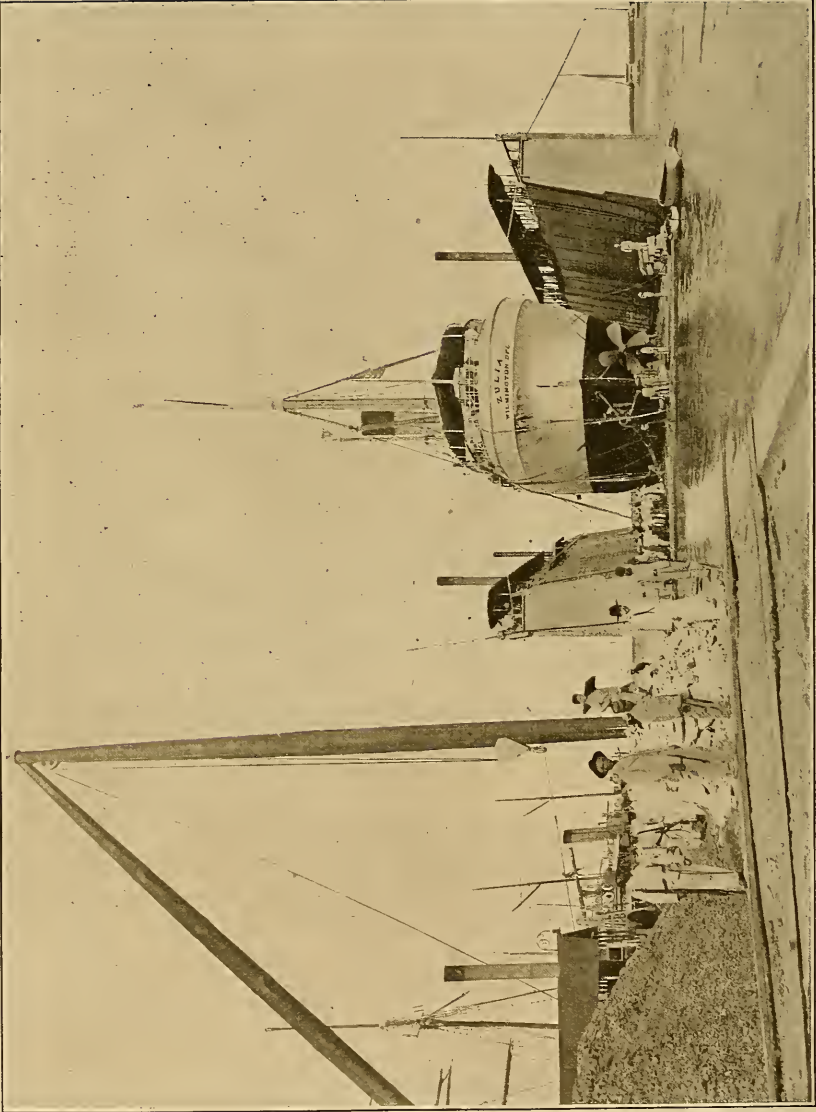
One deputy is allowed for each 35,000 inhabitants and an additional representative for an excess of 15,000 souls, while the old constitution specified 40,000 inhabitants and excess of 20,000, respectively. Any State with a population less than 35,000 is entitled to one deputy, the minimum under the old constitution being 40,000, and the term of service of deputies and senators is four years, instead of six years, as was the case under the former constitution. Under the constitution of 1904 Congress met every two years in May; the present constitution prescribes that Congress shall meet on the 19th of April, or as near that date as possible, of each year, and remain in session seventy days, which period shall not be extended, instead of ninety days as formerly.

Under the new constitution Congress elects the President of the Republic, who may or may not be a member of that body, for a period of four years, the election to be held by secret ballot within fifteen days after Congress assembles in the national capital. Under the old constitution the President was elected for a term of six years by 14 electors chosen by the Congress. At the time of electing the President, Congress selects a council of government consisting of 10 members, to serve for a period of four years, and the council of government chooses the First and Second Vice-Presidents, this feature not being embodied in the old constitution.

Under the new constitution the 7 members of the supreme court are elected by Congress for a period of four years, and the court meets annually, instead of every two years as formerly.

The old constitution specified that—

The States shall provide, in their respective constitutions, that the constitutional periods of their public powers are to be of three years, beginning on January 1, 1905.



REPAIRING THE PROPELLER OF AN OCEAN LINER IN THE DRY DOCK AT PUERTO CABELLO, VENEZUELA.

while the new constitution extends the time to four years, beginning February 20, 1910.

The old constitution provided that in public acts mention be made of the date of independence, July 5, 1811, and of that of the federation, February 20, 1859, while the new constitution prescribes that the date of independence of the nation, with respect to all official acts and documents, shall be April 19, 1810.

#### PANAMA HAT MANUFACTORY AT CARACAS.

A hat manufactory, in which the celebrated Panama or jipijapa hats will be made, has been established in Caracas. The new industry has been inaugurated under the most promising auspices, inasmuch as Venezuela contains large quantities of excellent fiber suitable for the manufacture of a fine grade of straw hats. About seventy people are at present employed in this industry, and the foremen are experienced workmen imported for the purpose of directing the operations of the manufacture of jipijapa hats. Hitherto Panama hats made in Venezuela have been manufactured from imported fiber, but the new factory will use native fiber in all its operations connected with the manufacture of Panama hats. The industry promises to be a growing and profitable one, and an excellent quality of hats are now being manufactured.



