## B ULLETIN

OF THE INTERNATIONAL BUREAU OF THE AMERICAN REPUBLICS

OCTOBER
1908

## ENGLISH SECTION

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GOVERNING•BOARD•OE•THE
INTERNATIONAL•BUREAU-OF

AMERICAN.<br>REPUBLICS

Elnin Root, Secretary of State of the United states, Chairman ex ollicio.
AMBASSADORS EXTRAORDINARY AND PLENIPOTENTIARY.
Brazil
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Oflice of Embassy, 1710 II street, Wiushinston, D. C.
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envors extraordinary and ministers plenipotentiary. Argentine Remblic ...Señor Don Eipifanio Portela, 1400 Mawathretto aseme, Watrimetm, 1).e.
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Chile. $\qquad$

Colombia
sufar Don Eximete Comtés,




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Feñor Dom José Acistís Arango."
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Neinor Jon Federico Meria, Onke of hecgation, "The Purthand," Washington, 1), ¢
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Dominican Republic . .Señor Don Whan (`. Joubert, Office of Legation, "The Shoreham," Washington, D. C.

Chargés D'affaires, ad lnterm.
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Thomas C. Dawson, Bogotá.
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Edwin V. Mortias, Mavana.
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DR. JOSE FIGUEROA ALCORTA, PRESIDENT OF THE ARGENTINE REPUBLIC.


WHILI: the editorial staff of the Mostmiy Braletin does not wish to appear as praising its own work, it is only fair, as a matter of record, to refer to the great mumbers of letters which the Director is constantly receiving from all parts of the work commending its improvement not only in general appearance and (puality but in all those details which go to make up a successful and popular publication. The editors of several of the leading magazines of the United States, which have an cnormons ciretlation, have gone out of their way to remark upon the excellence of the BrohisiTin, especially as it is official in 1ts nature and is limited by rules and regulations which do not apply to unofficial publications. When copies of the BehbetiN for September and Oetober, 1908 , are compared with corresponding months for 1907, antl again with those for 1906, the remarkable progress and improvenent made are at once understood and appreciated. In view of the overwhelming demand for the BethaisTIN in its present form, it is alnost to be regretted that it can not take advertisements and thus be able to increase its revenue and print more copies. Under the present rules it is entirely dependent, in the matter of the expense of preparation, on a small appropriation and a limited list of subscribers which must be kept within a certain number of copies. In another year new rules and regulations may be adopted which will give more elasticity in the income and circulation of the Bulastin, with corresponding benefits to the development of commeree and trade among the American Republics and to that increasing constituency of the Bureau which wishes to be supplied with aceurate information regarding the American Republies. In recording these observations, however, the Director wishes to state that he is fully conscious of many shortcomings in the Bubletin, and he asks not only the forbearance but the assistance of all men interested in the promotion of pan-American comity in making it an ideal official international publication.

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## SATISFACTORY IROGRESS OF THE NEW BCILDING.

In answer to the constant incuiries about the new building of the International Bureau, it can be said that excellent progress is now being made in its construction. The brickwork of the basement is already laid, the first tiers of marble are in position, and much of the steel floor and upright work is in place. It is now possible to gain an idea of the size of the structure and the commanding appearance it will have when fmished. No building in the history of Washington has been constructed more solidly, and, when completed, it should be able to stand the wear and tear of ages. The contractors promise to tave a skeleton roof on before the season of snow comes, so that work on the interior can be pushed forward and the building be practically completed by the middle of next summer. Photographs of the work published in the Brabletin from time to time give evidence of the progress being made in construction.

THE WEST CO.AST OF SOTTH AMERICS.
In the report of Special Agent Charles M. Pepper made to the Department of Commerce and Labor of the United States, stress is laid upon the prospect of improving the steamship facilities from Panama to the south both as a benefit to trade and to mail transport. The Peruvian Government has at present two 88 -knot steamers building in British shipyards, the first to be put in commission in the spring of 1909, and when the new line is in full operation the time from Panama to Callao will be reduced to five days instead of twelve, as at present. With a twelve-day service between Panama and Valparaiso under Chilean subsidy, conditions will be further improved, so that while, as Mr. Pepper states, conditions on the west coast do not favor the establishment of industries on a large scale, ample opportunities will be furnished for the extension of trade relations between the United States and the comitries of the Pacifie. The total foreign commerce of Eecuador, I'eru, Chile, and Bolivia is estimated between \$250,000,000 and $5260,000,000$, of which the United States has about $550,000,000$, the balance being slightly against the latter country. There is a tendeney to increase the proportions, and with adequate transport facilities much might be donc. Harbor improvements necessitated by increased trade for the west-coast countries are estimated at about $\$ 60,000,000$, those of Valparaiso involving an outlay of $\$ 20,000,000$. Other improvements in railway transport would be brought about, and in the report of Mr. Pepprer cach country's resources in this respect are set forth in detail. It is noted that most of the construction now in progress is due to United States capital, that country also supplying the bulk of railway material and mining machinery. Heary investments have also been made by United States capitalists in the development of mining propertics.

## DEATII OF EX-DIRECTOR FREDERIC I:MORY.

It is with sincere regret that the Mostmay Bramitio has to reeord the death of the fourth Director of the International Burean of the American Republics, Mr. F. Fimory, who passed away on September 20, 1908. Mr. Emory was a distinguished scholar, a journalist of great ability and judgment, a novelist of renown, and a lifelong friend and defender of the policy of obliterating all prejudiees between the three Amerieas, in a commercial and social sense. For twelve years Mr. Emory devoted himself to the service of the United States Covernment, leaving behind hin an excellent record as Chief of the Burean of Trade Relations under the Department of State, as Secretary of the International Bureat of the American Republies in 1893 , from whieh place he returned to the Department of State as Chicf of the Burean of Statisties, where he edited the "Consular Reports" and a number of statistical publications. After the death of Mr. Jositpir P. Smitir, third Director of the International Burean of the American Republies, Mr. Fiory was appointed to fill the position in a temporary capacity in February, 1898. The work done he Mr. Finory in the reorganization of the Bureat was of such a character that the Fixecutive Committee of this institution as a reward for his serviees appointed him Director, giving him a vote of confidence. In May, i899, however, Mr. Fimory, whose duties at the International Bureau and at the Burean of Statistics were such that made it practically impossible for him to discharge both to his satisfaction, was superseded by. Mr. W. W. Rocknilli, now American Minister to China. As a token of respect to the memory of Mr. Emory, the Burean's flag was ordered at half-mast on the day of the funeral.

EXCELILENT WORK OF [゚NITEL ST.ATES CONSLDAR OFFICERS LN LATIN AMERIC.S.

The Brdietin wishes to commend the quality and character of the majority of the reports of United States Consuls which are now being published by the Bureau of Manufactures of the United States Department of Commerce and Labor. They show that the average American Consul is efficient and is cloing his best to provide the merchants, exporters, and manufacturers of the United States with the class of practical information which the need. Now and then there is a report which may be of little value, but there is no reason why this should blind people to an appreciation of the others which are excellent. Most of the eriticism that is now directed against the United States Consular Reports comes from men who do not read these carefully or do not comprehend the labor that a Consul devotes to their preparation. The fact that the Bedidetio does not give much space to them is not due to its lack of appreciation of their data, but to the fact that they are nearly all made public through the Daily Consular and Trade Reports, and to give them again in the


THE LATE FREDERIC EMORY,
Fourth Director of the International Burent of Amariont Rephbics.

Bublietin would be merely duplieation. Beginning, however, with the next issine of the Bramitix, there will be published a list of all the Consular Reports on Latin America in the previous month, together with the names of the Consuls preparing them, and the subjects disenssed. This will provide a usefnl record of material that has been made public and form a reade reference list which can be consulted be the constit nene. of the Branistin wishing to know what reports are obtainable from the Burean of Alamfactures.

T111: I'AN-AM1ER1C.AN SCHIENT1F1C CONCR1ESS.
From the mumber of papers that are being prepared for the I'anAmerican Scientific Congress, which meets in Santiago, Chile, next December, it woukd appear that this gathering will be most suecessful in every respect. At least a score of papers have been sent to the International Burean for translation, from different American scientists, in addition to those which will be submitted by the regular United States delegates. Dr. 1.. S. Rowe, the chairman of the delegation, is now in the Argentine Republic, where he will remain until he proceeds to Chile, shortly before the opening of the Congress. Dr. Wiliam R. Simepheris, of Cohmbia Universit $y$, New Vork, is now in Spain making some investigations before contiming his journey to Chile. Several of the other delegates are on their way, while others are preparing to start in November. An interesting disenssion of the effects of the Pan-American Seientifie Congress to be held in Santiago during December, has been reproduced in this issue from the "Reaista de Derecho. IIsistoria y'Letras," of Buenos Aires. A consideration of the fundamental differences of American and Emropean mentality and of the methods of greatest value in the development of the former is stated as the central idea of the coming Congress. Seventeen Republies are to be represented at the sessions, and all the principal miversities of America have notified the committee in charge that the $y$ will send delegates. İxtensive preparations are leing made for their reception and the stemship lines rmming to Santiago will reduce their rates be one-third for the oceasion.

THE: NTTERNATMONAI, HORSE: SHOM IN IBTENOS AIRES.
In the month of Novenber there will be hed in Bnenos Aires, Argentine Republic, a great international horse show, to which foreign cometres have been invited to send military representatives to take part in the various cavalry competitions, which will be a feature of the programme. There has been some correspondence on this smbject between the Argentine Legation in Washington and the State and War Departments, it being desired that some of the best cavalry officers of the United States Army might be able to go, aceompanied by their trained horses.

The Vinister from the United States to Honduras, the Hon. Willifins Brooks Sorshbs, is a native of the State of Mississippli, and was born in 1858. 13y profession he is a newspaper editor and was connected with several papers in his native State prior to his appointment as ConsulGeneral at Guayaquil. June 26, 1889 . In 1893 he retired iron the consular service to engage in gold mining in lienador. Four years later, in 1897, he reentered the service as Consul at San Juan del Norte, Nicaragua, from which place le was transferred to Kingston, Jamaica, November 22, 1901. He was aponint d by President Rowsevist Enwoy Ext raordinary and Minister l'lenipotentiary to Bolivia, July 11, 1902, and after a service of six years at La Paz was. on June 5. 1gons, transferred to Honduras, with residence at Tregucigalpa.

A recent isste of "Systen" contained an interesting article about the
 a credit to the conntry and to the man representing it. The caption in "System" under the portrait of Mr. IInagixson says:

Ientarix) Higanson, Consul-Gemeral of Peru, whase New Sork offiee is a model information burean for bisiness men interested in the export and import trade. Mr. Haganson has been in the Pernvian Comsular Serviee for sixteen years. His suceess in attraetiny capital to lern aud in opening markets to his eomutry's proxlucts has phaced him in the pesition of "adance agent" for the Permian business matn. There are similar offices in I.ondon and Berlin.

We congratulate the Consul-(ieneral on this opinion of his office, given by a magazine. which is a good judge in that respeet.

Data covering Argentine conditions for the first six monthis of 1908 demonstrate a remarkable era of prosperity prevailing throughout the Republic. Trade values for the period are given as $\$+5+349,628$, an excess of imports over the corresponding period of the preceding year being noted in the amount of $\$ 1,000,000$, while exports show an advance in value of over $\$ 38,000,000$. Harvest reports show a million-tom increase in the wheat yeld for the year and in linseed a gain of nearly $300, O \infty 0$ tons, while the maize erop is expected to offse the comparative failure recorded in 1907. Industrial advancement is indicated by the fact that an increased number of mills and factories are operating throughout the country, while annong the extensive improvements in process in the port of Rosario is ineluded the construction of the largest and best-equipped grain elevator in South America. Railroad connections are being extended, and many works of public utility have been provided for by the Government in honor of the approaching centenary of the comntry's independence.


HON. WILLIAM B. SORSBY,
Envoy Extraordinary and Minister lemipotentiary from the Vaited states to Ihonduras.

The report recently presented to the Bolivian (rovernment by the Minister of Finance and Industry, extracts from which are reproduced in this number of the Brodierta, sets forth the commereial values of the most important national products. It is shown that while the tin output in the last statistics (for 1907) showed a decrease as compared with that of the preceding sear, silver values adsanced as did that of several vegetable products of the country. An analysis of Bolivian petrolemm reently made in the United States has given satisfactory results. The President's message to the National Congress delivered on August 6 was an exposition of the comery political status.

The suceessful floating of Brazil's coffee loan for $\mathbf{S}(6,0 \%(0),(\%)$ is a matter of paramonnt interest in the coffee world. The distribution of the loan is seneral, though London and Paris take the bulk, or S50,000,ooo. Interest is being shown to an inereased extent in the development of minins properties, and a recent code promnlyated in the state of Bahia is intended to stimulate the exploitation of a valuable mational resource. In addition to the immense advance shown in the textile industries along established lines, such as the weaving of eottons and silks, it is proposed to place the valuable perini fiber, or linen plant, on a conmereial footing, while the eulture of silkworms and the growing of mulberry trees has passed beyond the experimental stage. It was with the purpose of demonstrating not only the extent of the national resources but also the practical local applieation of them that the Brazilian Exposition now in progress was inaugurated.

Hon. Whilias IIsimkis, the United States Minister to Cuatemala, is a native of France, born in 1847, and naturalized in the United States. He came to America at a very early age, and when only fifteen, in 1862, enlisted in the Seventeenth Infantry of the Regular Arme. He served with distinction during the Civil War and was engaged in several of the most important battles. After the war he was headguarters elerk to Gencrals Shitrman; Pome, Havcock, and Sinsribis, and was also in the Quartermaster's and Commissary Departments under Generats V.av Tinist, Sintos, and Morgin. In 1881 he became purchasing agent for the Mexican Central Railroad, and two years afterwards, in 1883, was appointed general manager of the Chihuahua and Durango Telephone Company in Mexico. After four sears with the telephone eompany he again entered the service of the United States as Viec-Consul at Chihtuahua, appointed February 2, 1887. He was advanced to Consul August 18,


HON. WILLIAM HEIMKE,
Envos Extranditary and Mintater ldeniputeritary from the Coited state focilatemata.
Photograph, Harfis Ewing.

1892, and retired in Scptember, 1893 . After nearly four years of private life lie was in May, 1897, appointed Second Secretary of the Legation at Mexico, and was promoted to First Seeretary and assigned to the Legation at Bogota, July 18, 1906. He was appointed Envoy Extraordinary and Minister Plenipotentiary to Gnatemala March 10, 1908. Mr. Hismisí is a member of the American Academy of Economic, Social, and Political Science of lhiladelphia and of the International Ioolk Lore Society of Chicago.

## TII: COLOMB1AN M1NISTER AT W.ASHINOTON.

In the report made by the Minister of Foreign Relations of Colombia to the National Congress in July, special mention is made of the valnable services rendered his Government by the present Colombian Minister in the United States, Scnor Don linkigte Cortes. Not only has he been instrmmental in maintaining the cordial relations between the two Governments, but he has been instructed to include in the new treaty to be negotiated the most favorable conditions possible for Colombia in regard to traffic through the Panama Canal. The translation of the United States Public Health Report on the bubonic plague, furnished the International Bureatu by Señor Cortiss, has been widely reproduced in the papers of latin America with appreciative comment on the value and excellence of the work.

COSTA RIC.I'S COMMERCLE IA 1907.
Costa Rican commerce in 1907 indicates the steady growth of this Central American Republic, imports for the ycar showing an increase of $1.0+$ per cent and exports of 3.30 per cent as compared with 1906 . The preponderant value of bananas as an article of export is recorded in the fact that out of a total valuation of $59,350,000$ this item figures for $\$ 4,864,000$ on the exportation lists. Practically all of this frut is received at United States ports, but an extensive propaganda is being made with satisfactory results to introluce it generally in European markets. It is noteworthy that the neighboring Republics advanced their pereentage on the import list of Costa Rica from 1.62 per cent to 9.02 per cent, the increase being covered principally by cat tle. Important regulations in regard to the shipment of cattle and the receipts thercof have been decrecd effective from Scptember 15 .

RAILROAD PRUGRESS IN ECUADOR.
The message of the President of Eeuador, delivered to the National Congress on August 12, 1908, outlines the conditions prevailing throughout the country during 1907 and the first part of the present year. He
states that while the budget of expenditures and receipts for the year show a slight deficit, it must be borne in mind that the additional outlay was made on account of the Southern Railway, and his advocaey of railroad construction as a means of developing the resources of the Republic is emphasized. Not only has the Gtayaquil to Quito line been suceessfully inaugurated, but in August preliminary work was begun on the road from Huigra to Cuenca with the prospect of opening up the rich mining and agrieultural distriets of the southern section of the Republie within two years. Extensions are recommended on existing lines and the inauguration of new enterprises urged.

THE CENTRAL, AMERICAN BUREAV IN (GVATEMALA.
The inauguration of the International Central American Burcau in Guatemala City on September ${ }_{15}$, 1908, was a practieal fulfillment of one of the important conventions made at the Peace Conferenee of Washington in 1907. The presence of the President of the Republic and many notable personages gave an added importance to the event, whieh was also made the oceasion of popular rejoieing. The following telegraphic dispatehes were exehanged in regard to the cvent:

> Gertemala, September 16, igos.

Director Bureau of tief American Replblics, If ithington.
Greetings: We have the honor to inform you that the President of this Republie has inaugurated to-day in this eapital with imposing ceremonies and great publie rejoieing the International Central Ameriean Bureatu whieh we eompose. We have firm intentions of earrying out the lofty and generous ideas embodied in the Convention of Washington ereating this important institution.
(Signed)

> Ricardo J. Eicheverrí.i,
> Delegate from Costa Rica.
> Carlos Gitleen,
> Delegate from Saltudor.
> Jost́ Picto,
> Delegate from Cruatemala.
> Mantel P. Barahonis,
> Inelegate from llomluras.
> benjamin F. Zeleion,
> Delegate from . Vicaragua.

## Wasmington, D. C. September iS, $190 \mathcal{S}$.

 To the President of the Internitionil Centril Americin Birreat.Sineere eongratulations on the establishment of the 13ureau, a new proof of the gond will existing between the Central Ameriean peoples. Thanks for the telegram of Messts. Echeverría, Getheen, Pinto, Barahons, and Zeledon.

Join Barrett.

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\text { Kinat-bull. } 4 \text {, fit } 1-05-2
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## MENICAN COMNIERCIAL STATISTICS AND R.MILWAY DEVEIODMENT.

The enterprise of the statistical department of Mexico renders it possible to publisis details of the trade of that comntry with great promptitude, returns being at hand covering the trade for the fiscal year ending June 3o, tgos. It is shown that a decline of something more than S8,ooo,oon occurred in the total commercial value as compared with the preceding fiscal year. Of this decrease over $\mathrm{S}_{5}, \mathrm{onO}, \mathrm{om}$ ) is attributable to imports, the only notable item on this list being textiles, which slow a gain of $S_{2}, f 00,000$. As the bulk of Mexican exports consist of raw materials for which the demand abroad was smaller on accomtt of the business crisis prevailing, and as prices were correspondingly depressed the explanation of the export decline is obvious. Finthermore, the same condition reacted upon llexican purchases made abroad for importing purposes, thus accounting for decreased imports. I'ull particulars of the year's trade are pullished in the Bunititis. The completion of the Mexican section of the Pan-American road, the opening of the Tehtantepee, and other extensions are to be followed by the standardizing of the Interoceanic line, which is amomeed for the early months of igog. The National railways of the Republic are to be photographically featured at the New Ingland I'oorl Exhibit of Boston in Oetober in connection with a display of the industrial resources of the Nation. Panoranie views and seenes of Mexican life along the railroad are to be exhibited in an artistic setting and sulsecprently shipped to the Mexican National lixposition at h.ondon.

The Hon. Fenton R. McCrebery, Minister from the United States to the Dominican Republic, is a native of the State of Diehigan, and was born int 1866 . He was educated in the Michigan Military Academy and in the University of Michigan, graduating from the latter in 1888. He was appointed Secretary of Legation at Santiago de Chile November 7 , 1891, prior to which time for one year he had served as elerk in the United States Consulate at Valparaiso. In May, i893, he retired from the diplonatic service, but returned to the same on April 8, 1897, as Secretary of Legation at Mexico, where he served until his appointment as Minister to the Dominican Republic. Firom August 4 , 1905, to Marel 7, 1906, he acted at Chargé d'Affaires at Mexico. He was appointed by President Ronseveit, on Jannary io, mon, Minister Resident and Con-sul-(reneral to the Doninican Republie, with residence at Santo Donningo.

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On September i, igo8, an important docunent was presented to the National Assembly of Panama in the form of the message of the retiring President, Dr, Mavitio Amador (iterriero. A résmé of the general


HON. FENTON R. MCCREERY,
Euvoy Extraordinary and Mininter Plemiputentiary from the Cuited state to the Jominian lepmblice.
Photograph, Harris-Ewing.
conditions existent throughout the country, both politically and economieally, shows a satisfactory status for the young Republic. Financial reports are excellent, the national reeeipts for the six months ending June 30 , amounting to $\$_{1,259,574}$ from internal taxes and a balance being turned into the Treasury after the payment of eurrent expenses of $\$ 105,307$.

## CANNING COMPAN11*S $1 N$ PARAGUAY.

An important development of native industry in Paraguay is covered by the granting of governmental franchises to eompanies engaging in meat extract and meat canning enterprises. All materials and machinery necessary for the installation of plants may be brought into the Republie frec of duty, and eattle from the Argentine Republie and from the State of Matto Grosso, Brazil, are also exempt from import duty.

## PERT ANH THI: NHNLNG INHUSTRY.

In a paper specially prepared by the Minister of Fomento of Peru stress is laid upon the possibilities of the mines of the Republic and the aid provided by the Government for their exploitation. Tribute is paid to the influence and partieipation of United States eapital, notably in the Cerro de l'asco region. These mines are said to be producing 3,000,000 pounds of eopper per month at a net eost $f$. o. b. in New York of 9 eents a pound. The total produetion of the Republie in 1907 was worth more than $\$ 8,500,000$, which was almost double that reported for the preceding year. All materials and machinery for exploitation of mining properties are free from import duty, and liberal grants are made to interested purchasers.

## THE NEW NATIONAL, DALACE, SALVADOR.

The new National Palace of San Salvador, Republic of Salvador, occupies a pieturesque location of 100 square yards fronting the handsome grounds of Bolivar Park, a beautiful square of equal area near the eenter of the metropolis of the eountry: The magnifieent and inposing strueture, whieh is of iron, is faeed with delieately tinted fire briek and rests upon massive stone foundations. The roof is of corrugated iron. The arehitecture is a combination of Freneh and Italian Renaissanee developed from the elassie Greek-Roman style. The building, with its two elevated towers, its marble trimmings, and great interior and exterior beauty, is a work of art worthy of being seen and visited by natives and foreigners, and an edifiee of whieh Salvadorians may well be proud.

## BOOK NOTES

- The Other Americans," by Artica Rum (Charles Scribner"s Sons), New York. This volume, prepared in Mr. Remis characteristie style, will be welcomed by the general reader as an appreciative exposition of the life and smromedings of the Americans of Venemela, Colombia, Panama, Eenador, Pern, Bolivia, Chile, the Argentine Republic, Urugmay, and Brazil. In his progress through these rarions commtries the writer finds the most striking circmustance to be the curions blending of old and new. Engineers, promoters. prospectors, drummers, ete., skirmish over the fields of antique eivilizition; the American sewing machine whirss in the enviromment of the viceroys; and the phonograph blares modern operatic and street tumes in the mining camps of the heart of the Cordilleras. In the copluettish capital of Veneznela the news of the Parisian boulevard is the news of the day, but in Bogota, situated 10,000 feet in the air, in the interior of a comntry ten times as large as the state of New York, the regimen of Spanish life prevails, and here the tongue of Cervantes and Calderon is spoken with greatest purity. At Pamama, the West Indian negro arrives for canal labor attired in the congromeration of British ready-made clothing, to be shortly shed for almost jungle mulity. Down the west coast the Pacific stemmer performs the fumetions of a houseboat, freighter, village gossip, and market gardener, and articles of international trade become almost human comnecting links between the workd's marts and the eager purchasers whether these articles be Panama hats, milling machinery, fresh chocolate, or pineapples. In Pern, the highest railroad in the world, and the most extraordinary, climbs, to a height of $15,66,5$ feet above sea level over the Perivian Andes, past mud villages and mediaval stroctures, leaving in the rear the trailing liama trains of the past to arrive finally on the roof of the world where is a cheerful barroom with every kind of bottle known to the Anglo-saxon ranged along its walls. In Lima, where lie Pizarro's bones, is a modern statne of poignant pathos erected to the memory of the Pernvian hero of the war with Chile representing him in the moment of defeat, while in the San Darcos University eetablished by Cundes V in $15 \mathrm{~m}_{1}$, the Lima co-ed takes notes on the history lecture in a room full of darkeved señors. The Peruvian city of Arequipa. lying in a burted valley, overlooked by a dead volemo, is reached by a Yankee railway, and is the home of the Harvard Obeervatory in South Ameriea. Chile bustles with the noise of a mation finding itself amidst traditions of the past, while across the Cordilleras, crowned by the bronze Christ, the Argentine Republic receives its flood of Enropean immi-
 stay-athomes. and Cruguty prepares its beef extact for the howpitals of the world. Becallese of her collee brazil has more tangible utilitarian meaning to North Americans tham mon of sonth Amerian. but its capital has its Acalemy of Forty Immortals. its Fine Arts Academy, and its operal seam as New York and Buenos Dires, and its oreat public libury is the memorial of the temporaty tramefer of

 comment, pertinent, vivarions, and veracions. Mang of the chapters
 Magazinc." but every word will bear remading by pleasure or profit serking -tudents.


 lications derigned to set forth the preant rivilization. history. topore
 Lettin Ameriari. It is a worthy sucresion to the previons work of Mr. Exock, entitled "O The Andes and the Amazon," and. like that wolume. contains a sholarly introduction hy Matas Itrate who is editing the series. The story of the conquest of the Incess, with its deeds of shame and wrong, fimishes, of comse, the romatic episodes of the volame: bint it is to be noted that the more or lese extravagant notions, as to the pplendor of Inea civilization as indicated in their road con--tration are entirely diepelled. While the roads were exeellent and shitable for travel, as maderstood in those daves they bear no romparion with modern constrution for moxern meds. On the other hamed, the Otova Ralway is hed inp as an example of andeleions contruction principles. This road is a type of present -lay advancement in Perm. Where grod gowerment and internal development are the main purposes of administration. The fabulous mining wealth of the comutry is disensed with moderation, and note made of the fact that within the lat feans the agricultural remonese are bidding fain to take front rank in the nations eronomic life. These two industrial branches have an ammal valuation of abont \$17.000.000, and are eapabe of erreater development. 'The lack of capital is beimer met loy forrign interests. notably thowe of (ireat Pritain and the Coited states. while the labor ghestion is being solved by the employment of latge colonies of Japaneme.

Many of the Indians orempering the mpland and forest regions. heinge of a hardy constitution, are much employed in miniug industries. but the de-tructive effects of sumish rule greatly redued the native pop-
ulation. In the mad thirst for gold that was the mainspring of the complest. large boties of the Indians were combemed to ermed latrdshifs, oo that the mative pepulation of the Andine regions of the preent dity is something muler two millions. The mining laws of the combtry are liberal. and hate greatly stimulated to revival of in-
 over wiofor,000. and Mr: Exock is of the opinion that in mite of the great extent of mine their output in the past has been equeatly exagerated. The impres of the spanish regine is obervable in the aristocratic beming of tha upper chasen. the romantic beanty of the Woment, and the rigid obervanere of social etiquette, but with the indistrial depopment that hat- marked the last decade. more of an Anglo-staxom tendency in to be remarked. Step bey step the comditions which have matiod the acolation of lern the followed bey the
 soil and people element- of areathes which are being wothily dre veloperd.
"The Brazilian Year Book" for 190 covers in extanstive detail all matters relating to the ecostomic life of the Repmble of Brazil up) to the close of 1906 , with anch supplementary information as wat obs tainable up to the time of its final going to pres in Fehruary. 190s. Its isoname manks an epoch in the compilation amd pulbieation of Brazilian statisties. ats it is the first samdare English ammal of its class. Compiled amd edited by Il. P. Wheman muler the pattronage of the Bazalian (rovernment, it contame a mans of information valuable to investors and business men gemerally. The general comment as to the absence of ally data covering the valorization projed may be explatialble from two stamdpoints: in the first place the agreement in regard to coflece hoddings and valnation entered into between the
 therefore in the latest vear covered in the wolme (190(i) the workings of the projeet were not diseoverable. In the second platere, Mr. Whemas has motil hately ocemped the position of Director of the Brazilian statietieal somice from which he recently resignet, as he considered his govermmental romertions inconsistent with the expression of his opinion concerning this and other mational measures in the "Inazilian Review," of which he is editor. Side from this lack, every matter of Brazilian interest is reported on-historical, geographical, geologieal, statistical, and finameitl. The explanation of the Comversion Lam and of the ohject in establishing the " (abise" " is lucid amd informing, while the section deroted to momicipal issues and stock companies is of noteworthy value. The volnme, which comtains comparative statistics for five years and comparioons. in some
caser, for fifty years, will no dombt become a standard reference leook. and it is promised that future issoes shall be more prompt and extended. Commercial valnes are given in pounds sterling, thans simplifying the comparisons with figures of other comntries.
" The Conited States as a World Power," by Ancmaman Cam Coolnote: (The Xacmillan Company. New York), 190s. In this volume are disentsed many important and urgent asperts of the United states considered as a prominent factor in the world's progress. The writer' was the IIyde lecturer at the sorbonme in the winter of $1906-7$, and it is of the substance of the lectures then delivered that the volume is composed. I large portion of the work covers a critical consideration of the present and posilble status of the mutaal relations of the Vnited States and European nations, and further, of the resultant efferts of the Panama ( $a n a l$ and Latin Smerican relations. In the application of the tenets of the Monroe Doctrine it seens an absurdity to Mr. Coolmode that the Athantic Ocem should be regarded as a matural barrier between peoples to a greater degree than the Pacific, thongh this definition seems to represent the geographical limits of the doctrine as at present comprehended by the American mind. In interesting section is devoted to the policy known as pan- Americanism, which, it is stated, is based on two considerations. The first is a sentimental one, proclaming the natural commonity of ideals and aspirations of the American Republices and the second of a more pracetical natme, having for its object the economice exploitation of American resonres for American needs, which will result in binding the nations of the Western ('ontinent be commercial ties to the advantage of both. The application of the principle as affecting the various comntries of Latin America is considered, as well as the claims of other lands to establish a working theory of pan-Iberianism, pan-Germanism, etce. while the preponderance of German commereial inflnence in Brazil is comprehensively noted.
"'The New Brazil," loy Mame Romason W mant (George Barrie \& Sons). Philadelphia. In this. the second edition of her interesting work on Brazil. Mrs. Whant has revised and entarged the former issme and bronght it up to date. It is stated in the introduction that all eyes are now turning toward south Americal and that there is every reason to believe that the phenomenal growth and progress which marked the history of the United States of America dming the nineteentla century will be duplicated in the next hundred years by her sister Republic and friend-the new Brazil. In many ways this
condition reems to have been already attained and the accounts of the natural, industrial. and commercial resources of the vast comentry demonstrate still greater possibilities. Special importance is given to the assembling of the Pan-American Conference at Rio de Janciro and the visit of the Secretary of State of the United States, while the remarkable canbellishments of the eapital effected within recent times, the larbor improvements at the varions great ports, and the encouragements offered to the development of new indinstries are noted in landatory terms. Of especial interest are the nmmerous and beantifnl illustrations of public buildings, piantations, natural beanties, and indnstrial plants with which the vohme abomeds. P'ortraits of pulblic men and celebrities-literary and professional-put the reader in tonch with the best of Brazilian life.
"The Future of Cacao Planting." ly ILarold Hamel Amitit, editor of "Tropical Life" (John Bale, Aons \& I anilesson, 91 (ireat Titchfield street), London. The book deals with the eacio-planting iudustry in all its branches and includes many valuable snggestions concerning the nse of vacum chambers for drying the beans, the principle of planting belts of rubber and other economic plants around the cacao to distribnte the financial risk, the grafting of trees, improved methods of prouing, and green manturing. It is rather an essaly than an exhanstive treatise, but, as there is an appendix with opinions and criticisms. from some of the leading cacao experts in the West Indies and the (iold Coast, it has been made a valuable handbook of the cacao industry.
". Viva Mexico." by Cifarles Macomb Flandratt (D. Appleton \& Co.), New lork. The entlnsiasm of the writer concerning his topie is evidenced by the book's title, and in his capacity of coffee planter Mr. Flandrac was enabled to come into eloser touch with the national industrial life than most makers of books. Aside from an untechnical and therefore understandable account of the manner of planting, growing, and marketing coffee, many attractive sketches are given of Mexican life and eustoms, while in regard to the popnlar statement that the City of Mexico resmbles the city of laris, the opinion is expressed that the Mexican capital is like nothing but itself and is the better for it. It is wonderful and growing more wonderful every day.
"On the Canal Zone," by Thomas Gramam Grier (press of the Wagner \& Hanson Company), Chicago. This is a record of per-
sonal impresions concerning the conditions of the ('anal Zone in
 tion- on the sulject. $A$ patit from an introuncory sketeh it deals soldy with preent-day erents, and is a valuable exporition of the work acomplithed both in regard to the main objeet of Isthmian life-canal halding-and surh inherent reeninites as sanitation, reereation, fool -mpples, dwellings. and workmen. I variety of halftome illustraten the topies treated and adde finther interest to the book.
" Mexion with Comparisons and Conclusions." by A. A. Gramam. (Cranc \& ('o.) , Topela, Kansas. 'The anthor treats the Mexiem Republice to a staly, in alvancing arale. from the following viewpoints: Phasical, industrial, commereial, religions: political, and, finally and principally, social. In making comparisons, the instifations of the ["nited states are taken ans atamdard in the main. lont those of other combtries are also nised muler certain conditions. While the conclusion- set down were arrived at after at wo monthas -tay in the comutry and might be re-formed after a more intimate knowledge of the subject, many intereting statements are made on the topice disconsed.
"The Jhetice of the Mexican War:" hy Cmaries M. Owon (G. P. Patnams sons). New lourk and London. The aim of the writer of the beok in reference, as stated loy himedf. hats been to sift the evidenee introdnced by historians in regard to the war of ists betwern Mexion and the ['nited statere and to dietingui-h. in the interest of moth, between opinion, asimption, and mistaken reasoning. Is a remilt a valuable hrief for the l'nited states side has been presented to the jucticial eriticism of the world on a case concerning which there has been much differenere of opinion in the past.

Other hooks received lyy the Columbens Memorial Lilmary:

* One Way Romed Fonth America," hy Dahent Swemser Pren-
 tive of thavel throngh interesting lands.
 Topeka. Kamsas. . 1 reeord of a trip made to the lar East, with sturlies of people and anstoms. Illastrated.
" Dockhanis American Trade Reports." Bo:ton. 1!007. (overing textile mannfacture and dry goorls trade and directorice. Forty-first veal.
 Aretict：Omando．Pomandmeo．The volume is an extametive his－ torical ant chronological leview of the port and city of Recife，and a report＂1pon the sanitary conditions of same．


 agricoldural industiee adopted by ereral mations：among which the Enited states，in his oplinion，takes the lead．



## WHAT IS IN THE MAGAZINES

" Leslie": Weekly" for september 17,1908 , publishes one of a series of paperis written by Mrs. C. R. Muter on Latin American topices the one chosen for this issme being a consideration of "What American Capital is Doing for Peaceful Costa Rica." The most noteworthy achievement is the development of the hanama indnstry of the combtry it leing stated that Port Limon, which a few years ago was a tropical swanp, has been transformed into a thriving. healthy town of $\overline{7} .000$ or 8.000 inhabitants, possessing one of the best harbors in Central Imeriea, from which each month from 30.000 to 40.000 bunches of bananas are shipped to the T'nited States. A railroad owned and operated by Americans rins from Port Limon to San José. a distance of 102 miles. Next to bananas, coffee and cacao rank as articles of commercial interest anomg the vegetable productions of the comntry, and both enjoy a high reputation in the worlds markets. Costa Rica was the first Central American country to revise the old spanish laws and to bring her jurisprudence into aceord with that of other advanced nations. The capital is cosmopolitan in its social characteristice, and the Chief Exechtive. Cueto Gonzanes Vierez, is a man of high literary attaimments as well as a statesman of the first rank. He is especially appreciative of the benefits accorning to his comntry throngh the iuvestment of United States capital. English is tanght in the schools, and throngh the efforts of the Minister from Costa Rica in Washington instructoss from the United States have been phaced in charge of certain branches of public instruction and hygiene.
"Van Norden Magazine" for October, 1908, devotes considerable spare to a paper written by Freman Thares on " Urognay-the Oriental," which, thongh the smallest Repulnic in Sonth America, is also proportionately one of the richest and most successful. It mantains its finances on the gold standard, and the capital. Montevideo. is noted for the culture and refinement of its inhabitants. It is calculated that about eom.000 cattle are slanghtered ammally by the Liehig Extract Company, operating at Fray Bentos, and that the live stock in the comutry mumbers 8. 0000000 cattle. horses $(610,000$, and sheep nearly $22,000,000$, while many thomsands of live cattle are ammally driven into brazil from the pastures of its small neighlom. The Montevideo harbor, whene value hats beel greatly injured by the earth and mud bronght down by the River Plate from the interior, is
to be deepened and improved by a French company, at an expenditure of loan. Paysamdu and salto are Uruguay River ports, and to the former ocean-going stemmers can ascend for their cargoes of cored and ramed meats, thongh it is many miles inland. The methods of preparing meat for export are reported as beyond reproach in every way, and this inchatry forms one of the leading sources of wealth to the prosperons. Republic. With an ammal foreign trade valued at nearly $\$ 0.000 .000$, the share taken of the United States is about one-tenth.
." The Bimonthly Bulletin of the American Institnte of Mining Engincers." for september, 1908, has a valuable résmé of the geological distribution of " The silver Mines of Mexico," by Alabert F. J. Bomentr. France. Placing the Republic second as a copper prodncer and seventh as a gold producer, it is accorded front rank in silver production, with a yearly metallic output worth $\$ 160,000,0$ oto (Mexican) and an invested capital of s.on0,000.000, the figure being for $1906-\overline{\text {. }}$. Recorded mining propertios mmber over 20,000 . The yearly silver product ranges between $4,5,000,000$ and $\$ 00,000,000$ gold.

The same issue publishes a consideration of "The Fiuture dold Output of Colombia" and "Cold-Dredging on the Choco River," by Heniry (i. (ibusger, of Cartagema, whose information is collated after a fourteen years residence in the Republic. The mining resources are stated to be as vast and varied as the Cordilleras which bear them, the phatimm deposits being second only to thowe of Rassia and ocenrring nsallay in combination with gold. The prineipal gold region is located on the ereat ridge that separates the (hooo and Antioquia, and the seareely less rich sister range between the waters of the Canca and the Magdalena. Wherever there is gravel, there is gold, and while rarions attempts have been made in past rears to dredge the gold and platimm gravels of the Choco River beds, motern equipment has been backing. Recently, however. a dredge for which the neressary requirements ane claimed has been sent to the Choco, and better rexults are to be expected.
"Scribner"s Magazine" for October has an account of "Diversions in Picturesque Game Lamds," by Winana 'T. Homsabar, who deseribes the liancate region of northwestern Mexion ats its wildest corner. Dracticalty maknown and mexplored, the whole region is lava, with an obvions explanation for the absence of grass and water. But these latels in mo wise diminished the adore and interest of the party, of which the writer was a member. only instead of their
 one of crater hamting. with camerats in addition. The fascinations of the - port are matherastically dereribed. thongh the four-footed animals inhabiting that lata land are loy mo means manerons. The -herep of the perion ane to the \%oologist and sportamen extremely inter-
 American limits.

The " ('ontury " for October. printing the " Experiences of a Naval Attarhé" prepared by Commondore W. II. Bemmer. I. S. Nary.
 Rion de dancilo and hia permitted inspection of brazilian forts atad
 of the spanish war. Ite fomme in some reperts, a better expipment than existed in the lonited stater, hotally in the mattere of torpedo boats. An interesting theore of the de-truction of the drame in the hathor of llamana is abo inclated in the paper.

In its department deroted to foreign comment the "Literary Di-

 parative position orenpied in somth American tade bey the Guited staton and (immany. 'The Monroe Doetrine is eharacterized as a -hewd commereial mowe, its results lefing shown in the fact that

 The firture alone call show whel part of the world is to lenefit most from the indastrial development of international privileges.

The September issime of "' The Imals of the American Academy of Political and social Sicience" is a tarifl-revision mumber. in which, among other paper ley recognizel anthorities are the following on


 Forcign Trale Relations." hy Whana R. Cobimane.
"Shon and Leather Reporter" for teptember $\because 4$, 1908. has a contribution from the Director of the International barean of the Ameri-
 tmities." The writer deprecates the prevailing ignorance as to the
immense commercial posibilities oflered lavitan Amerida and andeavors. by the statement of well-established facts. to aid in dissipating this comdition of affairs.

* The Spice Mill" for september. 1908, continnes the pmblication of its artickes on "'The Coflee Industry of spanish American" this issue being devoted to a com-ideration of Mexico an a somede of wil)ply. The Chiapas variety is considered as the best of the Mexiean -pecies, and several plantations were visited by the writer. Dr. Areisto Rasos. in the interent of the smbject and extensively reported npon.
." The Bankers' Magazine " for september in its Latin-Ameriean section has a statement on "Foreign Capital in Brazil." uotes on " Banking Rates in Colombia," amd meral gemeral paragraphis repro"luced from the Augiot issine of the bialietin.
"Dmis: Review " for september. 1!0s. publishes a eontribntion from Robert $A$. Whason, of sin ledro Sula, concerninge " 'rewent Contitions in Itonduras:" which is an interesting résmé of the economic staths of the Repmblic.



# I R R I G A T I O N I N LATIN AMERICA 

Address lufore the Vationul Irrigation ('ongroses, Illuquerque, New
 Nohn Banirtt. INirector of the Interuational Bureat of the Imerican Repulblies. W'ashinyton, I). ('., and formerly L゙uited States Minister to Argrentinu. P'ancume. "mel C'olombia.

THE remarkable achievements of onr sister Imerican Republies in irrigation and reclamation demonstrate forcibly the importance and progress of these mations. Their far-reaching work, both past and present, in this line of material development of their vast areas and limitless resonves astonishes the average man and is little appreciated thronghout the United States.

What they have done, are doing, and intend to do, rival the most ambitions sehemes of this comtry and make ns admire their enterprise and energy. If the irrigation expert of the United States were to visit and inspect the principal rechamation works between Mexico on the north and Argentina on the far sonth, he wonld return not only with new and valuable impressions which wonld be helpful in extending the work here but with an enthnsiasm for the possibilities of onr Latin American neighbors that would do much to foster closer relations of commerce and comity.

AN INTERNATIONAI, PAN-ANERICAN MRMG.ATION CONGRESS IN 1910.
Right here I want to make a recommendation which may be worthy of your careful consideration. It is that this National Irrigation Congress meeting here in Albuqnerque. New Mexico, in 1!00. take steps toward holding two or three vears from now, or at come date in 1910 or 1911, a great International I'an-American Irrigation Congress, to which each one of the twenty Latin American Republies will be invited to send delegates and experts. Such a proposition carefnlly directed wonld smely meet with favorable response by onr cister nations and wonld be the means of vastly benefiting. by mutnal exchange of views and reports. irrigation molertakings in all America. It wonld be highly advisable that a committee shonld be appointed by this Convention to consider the carrying ont of this, plan and to ask the National Congress at Washington to make a reasonable appropriation to cover the participation of the United States. Such appropriation would give a Govermment sanction and


Old Method of 1rrigation, Mexico.


WAITE-Copynight. 190:
San Renovato Dam, Guanajauto, Mexico.
require the appointment of Government delegates, which would insmre the actual interest and participation of the other American Republies. As a sperial corollary to this main proposition, I wonld snggest further, as a step of international conrtes which wonld please mot only our great and prosperons neighbor, Mexico, but all Latin America, that the national and private imigation interests of Mexico be particularly invited to cooperate with those of the United States in preparing for, and extending invitations to, such a pan-Anerican gathering. With this idea, moreover, goes the highly tempting possibility of holding this International Congress in Mexico City, the great capital of a nation which is second only to the United States in plaming and smpporting the movement for rechamation of arid areas and for the conservation of natural resomees. The years 1910 or 1911 are mentioned, instead of 190 ), because it would be impossible to do the preliminary work nece-sary and secure the acceptance of foreign Govermments prior to 1910.

## hririgation not a new plobley in latin america.

Irrigation in Latin America is no new problem. In fact. there are to be found to-day evidences of great irrigating canals and systems built by the Aztecs of Mexico and the Incas of Pern long before the Spanish Condrest and even the discovery of North America. It is not my purpose in this address, however, to pay more than passing attention to these vast undertakings of the ancients-althongh they are worthy of close and careful consideration-hont a few facts, illustrative of what they had accomplished in the line of irrigation before Emope invaded the New World may be of interest. The stment of the problem of irrigation will find abmendant material in Mexico, Pern, and the Argentine Repnhlie to prove the beneficial work done ly these early peoples.

Let ns look for a moment at Pern. The Incas, the Pernvian aborigines, were thorongh agriculturists, and, althongh much of the comatry along the seacoast siffered from want of water, as little or no rain fell there, many phaces were capable of heing reclaimed, and, indead. needed only to be properly irrigated to be smseeptible of extraordinary production. To these spots water was convered by means of canals and subterraneons aqnedncts. executed on a moble walle. They consisted of large shabs of freastone nieely fitted together without cement, and discharged a whome of water sulficient. leyems of latent durts or slates. to moisten the lands in the lower level throngh which they passed. (l'rescott.)
some of these atqueducts were of great length. One. that traversed the District of Comkenyo, meanmed between fone and five handred


INCA TERRACES IN PERU.


 whitlo were tilleal with earth. Thee terraer were irrighted hy whter thatined from the
 the series of terraters.
miles. They were bronght from some elevated lake or natmral reservoir in the leant of the mombains, and were fed at intervals by other basins which lay in their ronte along the slope of the Nienras. In this descent a passage was sometimes to be opened throngh rocks (without the aid of iron tools), impracticable momatans were to be turned, rivers and marshes to be erossed; in short, the same obstarles were to be encomentere ats in the construction of their mighty roads. Near Caxamarea a thmel is still visible which they excasated in the momutans to give an ontlet to the waters of a lake.

Most of these beneficent works of the Incas were suffered to go to decay by thein Spanish comprerors. In some spots the waters are still left to flow in their silent sulterraneons chamels, whose windings and whose sonres have been alike mexplored. Others, though partially dilapidated and closed up with rubbish, still betray their course. Such remains are fomed in the Valley of Nasea, where the ancient water comses of the Incas, meaming 4 on of feet in depth by :3 in width. amel formed of large blocks of memented masomry, are ronducted from an manown somere.

The greatest care was taken that every oceupant of the lame through which these streams passed should enjoy the benefits of them. The quantity of water was allotted be law. overseres superintended its, distribution and saw that it was appled fathfully to the gromed. The people of the eoast vallers of Rimate and Nasea were of marrelons industrex as is shown in their adhirable setem of irrigation bey means of imdercromud eltamels. Aromat the lomes of the rulers were the fertile valleys, peopled ly industrious cultivators and carefully irrigated. The imgation works constructed in the noper part of the China Valley were astonishing in their magnitude and in the ebgineromg skill with which the were coustructed. In early dars the two valleys of Pinat and (Chirab according to a rensas made for Archbishop Lomya, stpported a popmation of 163,000 , and a simple restoration of the imigation works womld qualmple the productive power of the land. The same remark applies to mearly all the eonst ralleys of Peru. The habitable and cultivable area on the coast was remarkably increased at that time, and in some places these works of the Incas are even to-tay, kept in reparir.

Coming to the Northern Continent, we find again marvelons evidences of reclamation work. The Aztees had a most complete and well-arranged system of irrigation. Ther used water from the momtain streams and had a knowledge of dike building; they surrombled
their fichds with hedges of stone, and directed camals throngh them. They showed also grood judgment in the management of their gromed. When it was exhansted it was permitted to lie fallow, and its extreme dryness was relieved loy camals. with which the land was irrigated. To prevent this dryness there were severe penalties against destroction of woods, with which the commtry was well covered before the Conquest. Around the dity of Mexico the district was checkered with patches of Indian corn and plantations of cacao which required constant imigation. The water was supplied from mmerons canals and reservoirs intersecting these fields so that the comntry could not be traversed withont great diffientty by Cortess horsemen. These irrigation canals nearly proved the rinin of the Spanish Army. The wide plain aromed Cholnlo, at an clevation of f,000 feet above the sea, was fonnd by the conquerors to be cultivated, to nse Cortes's own words, "for avery hand's breadth." The soil everywhere-not an meommon thing in the table-land-was irrigated ly mmerons canals and streams, and many of these ingigating canals can be found in use to-day in Mexico.

I have taken up, in detail what has been accomplished in the past in Pern and Mexico because these two portions of Latin Ameriea show such distinct evidences of engineering skill on irrigation lines, althongh traces of similar works have been fomd in the other areas of the comntries to the sonth of ns.

But what is Latin America doing to-lay to solve this great prob)lem which is attracting the attention of the entire world! surely it is making great strides in this as in all other directions. some of the Republics are so fortmately sitnated that the problem of irrigation is not yet a neressary one. becanse their areas are well blesed with aboudant streams and sullicient rainfall. For the present thein needs are fully met by the matural water supply of the coltivated fields. The que-tions of great. costly irrigating solmemes have not come immediately before them. The rapid progress these comatries are making. howerer, and the steady increase in population, will me donbtedly nere-sitate the same consideration of this prohlem which we are to-day giving it in the C"nited Nates. 'The great majority of om sister mations are reaching practical solutions of the demands of the agriculturists.

A moment ago I spoke of what had leen done by the Aztees in ancient Mexico. Now let ne consider what has been acromplished in moderu Mexioos and what are some of the projects for the future in that comery. Within a few Immered miles of Alburnerghe there is to be found one of the most plendid examples of irrigation is

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PLANTINC SUGAR, SANTO CLARO PERU. (SHOWING IRRIGATION.)
 (Crpyrght-Phatograpt, Un ierwoud a Underwood.)
the world. I refere as yon of comere know, to the reclamation of the Nazas Valley. The great plain of northern Mexieo embraces nearly the whole of the states of Chilutahatand Coahnila. being iomuded east and west hey the Sierras of the Pacifie and Galf eoasts. reepeetively. It consists of two watersherls. that of the laio dramde to the north and the so-called dererts of the Bolsom of Mapimí in the *onth. It is abont foo mike wide log (i00 long. and maintains a general level of abont t.oot feet above the seat The Bolson of Mapimí has much the same formation as the basin of the Great salt Lake. It receives the drainage of all the eastem slopes of the birango Sidras and the western slopes of the Coahnila Ranges. but posemeses 10 ontlet. As a conseguence the rivers rim into broat, shallow lakes, whene the water is gradaally lost beveremation during the dry season. Of these rivers the largest is the Nazaswhich has a comse of nearly : 3 mites from its sontere to where it is dispersed orer the shallows. called on modern maps Lake Mayran. sisty years ago the Nazas dischated its waters into a series of extemsive lagoons, the present fertile lagman distriet of Durango and Coalnila. (Romero.)

FERTLE: WHIDERSESSLS AW:MTMN WATER.
Latcre long-contimed manfall eansed the Nazas to open a new comse and leave the Cayman lagoms:30 miles on one side. These lagoons were comeded into a mergute wilderness. almost dead level. compored of a deposit of the finest detritns. The central depression of this lake bed filled a broad valley rimming morth and sonth. The area thas comprised was abont 20 squme miles of pure vegetable loam, locally known as the " Lake of 'Tlahatialo." This rumern (or bowl) was the spot chosen, abont 1892. for the establishment of a great imigation enterprise.

It had been carly determined that the lamde left dry were of extrat ordinary fertility: and half a century ago these tracts immediately adjarent to the river had been hronght mader irrigation after the rough methods then praticed, so that already $2.50,000$ acres of this land had been reedaimed and the requion was producing the greatest palt of the cotton grown in Mexieo ats well as heary (ropes of corn and wheat ( 1890 ). The Tlahatilo basin was known to be the richest portion of the district, but the :30 miles of sm-baked deert eeparating it from the conne of the river presented an obstacle to milization. In 1ss? a project was formulated for carruing a ditela aross the intervening deserts and conserting the whole area into a hage hacionda.

The lowest level of the basin was 100 feet below the point on the Nazas. Which it wats proposed to dam: the main camat wonld require a development of :39 mile: : the slope of the land within the hasin was surch that 17.5 equare miles ont of the $2 l(0)$ (empensing the hasin


Ia Pres. Dam, San Levis Potnst, Mexico.


Esperanza Dam, Guanajalto, Mexico.
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conld he irrigated. I dam was thrown arons the river where it was 1.500 feet wide at flood. The main line of the canal, 39 miles long. terminated in a distributing tank at the entrance of the irrigathe area where it bifineated.

The rainfall in the Bolson of Mapimí is confine to a few days of heaty showers in Jme and beember. hut in the monntains of $\mathrm{D}_{\mathrm{H}}$ rango the rains are heary and protracted, lanting for several weds at a time. In the 'Tlahatilo basin, a week on ten days of irrigation is all that is needed for the cotton phants during the year. but com and wheat mmst, of comse receive it at each phanting. The distributing of the water is regulated by Govermment sehednle: earh property on the river is allotted its proportion of water and cath eanal is permited to take as many irrigations as it desires dming the season of high water, but in stridt rotation. DIEre is a project rarried ont at onr very door, at a cont of eeveral millions of dollars. The production of cotton alones in the gear 190 . was valued at owe $\$ 10.000 .000$, an increare of sot per cent over the amome grown before the land was irrigated.

## hrigidton Wonk vemr mexion city.

Another example of irrigation in Mexico warranting attention is that near the City of Mexico in the state of IIidalero. In 1900 the drainage system of the Valley of Mexico was completed and a combany was formed to nse for irrigation the waters discharged from the ('ut of 'Teqnisequitace, bemeng them into the Rio Salado. conducting them finally to the Thamaco Dam. Ilere is constructed a canal it miles long. at the end of which there is a fall sulfieient to furni-h $\therefore .0 \%$ hompower for electrical purposes. Snother (amal abont $\because$ miles long follows, which is finally divided into there mondiary canals. This permits irrigation to an area of abont for, (100) aros. The company has extablished a maximm fee of abont ses gold per ade per vear. hat for exates of more than 200 acres the payment is propertionately redaced. A. was natmeal. the valne of the lame rewiving the benefits of irrigation has motiecably increased : land that sold before at s. great has been the alvantage that the income of the fovermment of the State of Ilidalgo has loeen angmented considerables. withont a per capita increase of taxation.

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In Mexieo the Govermment sometimes mulertakes irrigation projects. sometimes grants permits to private associations or individnals, bont control of the waters and prices is retained in Govermment hands. Instances of what has already beed aceomplished in the varions

States may le briefly given. In Sinaloa a modern irrigation plant furmishes water to 88,000 adres. In Puebla 1.5 square miles have recently been bronght nuder irrigation at a cost of $\$ 100.000$. In Guerrero irrigation works have been completed at a cost of \$1.00.000. In Chihahna, Señor Cbewa the distinguished Mexican Imbassador to the Guited States, and Governor of the State of Chihablata, is irrigating one farm of fi.000 adres: Colonel Green and his company are planning large irrigation sytems, and it has heen extimated that $.000,000$ acres are thas served. In Durango a company has recently received permission to nee the waters of the lamillas River. In Chiapas the Sational Secretary of Colonization and Industry has given permission to nse the waters of the River Camalejo, supplying 1.000 gallon, ( 4.000 liters: a secombl. for irrigation. In Ninero Leon, eant of Monterev, there is an irrigation sysem with a reervoir to hold 2.50000000 grallons of watery, which flows throngh fimiles of pipe. The Agricultmal Board of Jalise oflems prizes for wells and for plans for the increased nse of water, and release from taxation irrigation plants and machinery to be need in developing such plants. This same choolatageme is oflered in many instances by the Xational Government. In many of the other States of Mexico vast schemes are meler Way for impating the land, but those which I have taken up may be comedered as ilhatrative ones.

If modern Mexico hows such progress, it is equally the that Pern, Chile, Argentina. Brazil. and. to some extent, the other sections of Latin America are in the van.

Let us consider first the Repullice of l'ern, where many recent important indigation works have been suceessfully carried ont. Worthy of mention is a plant in the Valley of Nasca which, throngh the restomation of an andent canal of the lneas: 30 miles long. fertilizes 25. 000 ateres of land. Thirty-five thomsand aters have been medamed from barremess in the Valley of Lomats. In the Valley of Chita there are $7 \overline{6} .000$ ateres of tillable land. $1(6,000$ of which are now under cultavation. An area very mach larger will be bronght into use by repairing one of the ancient canals. In the Department of Piara an area of from 50.000 to 60.000 acres has been surveyed, and already 1.s.000 arres are irrigated. $A$ contract, it is reported, has been entered into with a cotton planter for irrigating 30,000 acres. In the Department of Limat the arid lands of Noco are being irrigated. In interesting result has been obtained at the port of Mollendo. Water from the aquednet of ledmmato. buit in 1870 for the nse of the malway to Arednipa, has been partly diverted for irrigating purposes. The cost of these works was about $\$ 1,300.000$. The arpuednet has a length of $8 T_{2}^{1}$ miles, divided into $1 t$ sections with intermediate
reservoirs: in Mollendo there are wo other tanks from which the water is immediately distributed. In a recent report of the Minister of Public Works of Pern, mention is made of a newly organized section under this ministry to stirdy the problems of irrigation on the west const. The River Rimac, near Lima, the capital of Pern, is at present hised to imigate seven valleys with about ( 60,000 aleres of lamd.

The lermsian Govermment has, during the past few years. been employing experts from the Cuited States Geological surver and the Rerlamation servier toating the possibilities of irrigation in the Republic. As a result of there investigation-, it is estinated that approximately 2.000 .000 acres of the Perivian coast region are susreptible of irrigation, of which between 800,000 and $1.000,000$ arrew


CHICAMHTA CANAL. PERE
 water only nbout is fer eent of this acrenge is maler enltivationt. Pernvian eapitalisionre buiding irrigating camak through there coastal lambs, which will maturally bring about a ermplete transtormation of this \%one.
are in the valley distriets. As Pern"s leading arops-singald, cotton, and rice-are all irrigation rops. it ran be seen how energetic the Govermment has been in this modertaking.

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In the Argentine lepublic one of the most interesting examples. of irrigation is furni-hed in the eity and neighborhood of Mendoza. This lies at the foot of the Andes and was mulonbtedle orcmpied by the aborigines long before the spaniands came. Mendoza stands in the center of an extremely fertile streteh of teritory. but the verdine
of the city and smrrombling comntry is due to the ingemnity of man. When the sytem of irrigation was begm is not known. bit for the last twenty years the scheme of irrigation has been thoromghly regnlated. The river's Mendoza and 'Tomyan have been dammed at great expense ly the Irrigation Department of the Govermment. Abont 1.100 miles of camals are utilized, and the irrigated surface measmes 1.000 square miles ( $6+0.000$ acres). This is the great wine district of the Aremtine lepmblic. and withont inigation the ind astry conld not thrive.

San Juan. north of Mandoza. hats -plemtiel intigation works. datinge from 1 sis. The city of Cordova, east of sum Jom, is famons for the sytem of ingeation within the town itself and throngh the smromeding combtry, The Dique sin Roppe (dam) of the Rio Primero furnishes water for many leages in the neighborhood and is the largent of the kind in sonth America, if not actually in the world. The lake created loy the dan holds 260,000.000 conbie meters of water (over $68,0100,000.000$ gallons). Which are distribnted over 360 square miles ( 230,400 arres). This irrigation srstem ran into millions of dollars for const ruction, and is noted among engineers for the results accomplished. The Argentine Govermment maintains a service of irrigation in the Depart ment of Public Works with a pay roll amome ing to \$1.stins0 a year. I wish I conld derote more attention to the arcomplishments in the Argentine Repnblic, but there is not time nor tpace.
('HILEAN HECLAMATION AND HBHG,ATION WOLK.
I shonld like to explain in detail the indeation and forestry service proposed by the Govermment of Chile. but 1 shall confine myself to some gemeral observations. Irrigation was practiced by the original inhalsitants of Chile and the remains of their adnednets show extraordinary enterprise and skill. With the intensive agrienltare of to-day, indeed, irrigation is a necessary factor of the suceess secmed loy the farmers and wine growers of the comitry. In the great central valley of the Republic. sonthward from santiago, there are many illnstrations of irrigation sptems in operation. and projects for new plants are constantly matming. Lach rection of the valley is a drained lake. the bed of which is being continnally entiched lye the allhwial deposits of the momatain toments. The water from all these lakes amd rivers is used to fertilize the land and tmon the mills. Where there is no water from surh conres the land is barren, and in passing throngh this central valley therefore from time to time
 obtained, and where the rivers bring down natmal fertilizing matter from the momatans, some of the richest land in Chile is the result.

[^1]SAN ROQUE DAM, CORDOBA RANGE, ARGENTINE REPUBLIC.

The irrigation system is excellent, the water provided is almmdant, and the vegetation therefore is laxmiant and varied. Each finmer or hacendado is a subereriber to an irrigation camal, constructed at considerable expense and regulated by carefully elaborated haws. I (anal is divided into so many regadores, a regador being an ontlet throngh which 83) liters (9 gallons) of water can pass per second. Each farmer can have all the water he subseribes for distributed at his pleame and at the cost of the compang. St the Normal $I$ gricultural schools of the Govermment, of which Chile maintains several, comses on intigation are oflered in quite the same way that viniconlture and fertilization are studied.

I must mention briefly something of what has been undertaken in the largen of the South Ameriem Repullies. Brazil. 'The Commis--ion of Enginerrs in change of irrigation works is investigating diflerent river beds in the regions aflected by dronght in the states of Ceara and Rio (irande do Norte with a view to constrmeting reservoirs. The work of clearing the bed of the Maxarangmape has already been begins, and it is propoed alao to construct dams at Carmbas and Angicor. The Commiscion has plamed the construction of a dam at Santa Amala do láo dow Ferror, which is abont :3:38 miles from Natal. This is an important work. The dam to be bnilt is 10 meters high. and the remervoir will be able to withetand thee shecessive vears of dronght. Many of the large coflee plantations in the States of Náo Panko and Rio de Janeino are muder irrigation, but this has been a matter rather of private enterprise than of National or State initiative. Of comse these are only a few ilhat rations of what is going on in Brazil looking to its proper irrigation. The mighty streams of Brazil have in them ample water for irrigation pmoses, and wherarrerigation may be needed it will be only a question of simple control of this supply.

WTIER COUNTRIE IN LATLN AMERIC.
Other cometries, like Crugnay and Paragnay, are so well watered that there has been no great call for artificial irrigation. In the momatain comtries, however, the rainfall may be great, but the vallegs sometimes need water dming the dry seasom, and consequently the problem of irrigation becomes a practical one.

In Eenador. the Minister of the Interior and Public Works is very active in encomaging all plans for the extension of modern agricmltmal methods wherewer applicable. The water smpply of the cities, at present a vital problem, is receiving particular attention,


but hand in hand with this goes the nee of water for irrigation purposes, and careful study is given to the latter as well as to the former. Near Quito new drain and irrigation pipes have been laid at eomsiderable expense, and in the Province of " El Oro" noticeable progress has Deen made on the rivers Cahbmro. Bnenavista, and Pital.

The traveler in Colombia and Veneznela can not fail to notice the verdme of the landsape at all seasons of the year, although the roads may often be uncomfortably dusty during the dry season. Natural water supply and drainage account for much of this perpetual green, but irrigation by trenches has been practiced for generations. If nature is kimd, man has not forgoten this kinduess, and he takes advantage of every means to supplement it hy the simpler methods of irrigation. In a recent report the Minister of the Treasmy of Co lombia notes the abmudance of water in the cultivated areas, but he also gives careful attention to drainage and irrigation, notieing espedially a project to combine the two aloug the great highway of Cambano.

The area of Bolivia is wonderfally diversified. The mometain regions are dry, rocky, and often sterile. but the plateans to the east and north eontain some of the richest land in sonth America. Here everything will grow, but there are valleys between the momentain peaks where crops and herds conld be much increased if water were more abmudant or better preserved. 'The stuly of these higher vallevs has been carefully mulertaken within the last two years by the Minister of Colonization and Agrienltme with gratifying results. In this ease the Govermment is decidedly in atwance of present demands, for the soil needs agriculturists to till it quite as much as water to nourish it. When, therefore colonization shall have filled the moennpied spaces bolivia will have plans ready to make fertile by irrigation all land settled by the farmer.

Enterprises of this kind are not confined to the larger combtries to which I have called yon attention. For instance, the Dominican Republic, appreciating the valne of irrigations, ath the increased iucone both to the agrioulturist and the dovermuent, bas reedent made an appopriation for irrgating the Monte Cristi Distriet, and the Public 'Treasimy hats appopriated ammally the simu of sin, 000), which is to be expended acerrding to the plans prepared for this purpose by the Ministry of leomotion and lublie Works. The
 within its reach to haten the realization of this important work.

I mast mention the fact that lorto Rioo-amd in many somses of

 the last few dats appropriated by the legishature in pecial sesion.


In conchasion, let me mention a few general facts abont one sister American mations which are primary in their nathre and yet not genemally recosenized hy the arerage citizen of the ['nited states. All Anerica, including the ['nited stater and exchading Canada,
 - phare miles, of which Latin America orcopies nemrly ! 0000,000 , or three-fondths. The total population of the same Pan-Smerica is 160.000.000, of whel $\quad 0.000 .000$ or ahmost half, live in Latin America. The total arerage foreign commerce, exports and imports. of PanAmerices is s.o.000.000.000, of which the share of our little appreciated sister mations is ower \$2.000.000.000. or considerahly more than one-bliret. Latst year the foregn commere of the Arentine Repmblie reathed mearly \$600.000.000. Bumos Lires, the eapital of the Arentine Repulblic. has a popmation of 1.200 .000 and is growing fasere than any rity in the ["nited states after New York and Chi(ago. Rio Janemo, the metropolis of Brazil, has nearly reached the
 area of the lonited states beyderent spare miles to have room ahmost for (ermany in addition. Ont of the Anatan Rivere every day flows fome times an much water as ont of ome mighty Misisippi. And :o I might go on tellinge of this sonthern wonderland of Latin
 with my olliee in Washington, the lnternational burean of American Republes. if gom are to learn the details of the story. logethere with pamplatets. mapls, amed books which will prowe that I have not exaggerated one iota.


## SOUTH AMERICAN EXPORTS TO THE UNITED STATES

IN foreign exports the Vaited states ocoupies a position intermediate to the commories of western Einope on the one hama and the Sonth Smerican Repnhlies on the other, with a comsant and rapid approarlo to the Fimoperan position. It marlis the midille gromad between foreisu trade fommed on exploitation of nathend lesonres and foreign trade resulting from highly sperialized mann$\mathrm{f}^{\prime}$ arturing eflort.


ALIPMCAS. PIERC.
The worl of the alpmea is nearly a fout long, suit, and tine as silk. The great bulk of the pro-
 luitedstates.

Nonth America, the ['nited States, amd western Vmope represent in the immediate present therestess in the world's inderdial progreses. which in conceres is the progress of each particnlar nation of the world. In a new eombtry sum as Amerie: was for more than three
hmulred years after its discowery, and such as the overwhelmingly greater portion of it yet is. indnstry must of necessity first concern itself with the land and the immediate prodnets of the land. $A$ s popnlation and capital increase. more diversified indnstries come into being. The tendency and the desire of every comitry is to attain an industrial position where it is the sole consmmer of its own raw prodncts, which, throngh its own industries and its own factories, are converted into articles of necessity or laximry for the rest of the world. To attain this end. popmlation and industrial capital are nevessary, and to ohtain this each comery monst begin as every eomatry in America. from Canala to the Argentine Republic, has begum-by first exploiting natmal resomes for the nse of foreign comntries.

Popmation and capital have marvelonsly increased on the American continent within the last one handred years, and this indrease is the direct and consequential result of the immense quantities of eotton, wheat, wool, lumber, beef, hides, oil, cacao, asphaltmm, rubber, nitrate, gold, silver, iron, copper. cotlee and sugar which the New World hats prodnced and sold at a profit to the Old World. For America, as a whole, foreign export trade means a trade in food products and raw, or lont slightly mannfactured, material.

The one exception to this rule is the United states. wherein the foreign trade is assming a different character, and where, with much of similitude, there is an important difference between its indenstrial position and that of sonth America in this, that whereas the former is approaching the limit of its capacity to prodnce raw material, the latter is an almont virgin field, whose possibilities are so immense as now to appear almost mimited. In addition, the Colited States is constantly consiming a larger amd larger proportion of its own raw material and food prodncts in home consmmption. In other words, its smphns will constantly decrease, while in Sonth America the surplus will constantly increase.

Every combtry natmally, and by force of circmmstances, engages in that kime of trade which at the time is most profitable to it. It dewote its cherey and its capital to what prownere immediately the greate returns. In a new commery this al ways means the exploitation of natharal remoreses. So long as this fied remains open and poritable, to it will le diveded the prineipal eflomts amd the lomk of the capital of a people. Only when the aremmatater apital has become suflicient for the propere and the presime of an inerasing pmonation so limit of productive eapacity is reached. is it fomed profitable to direct the new (apital amd the new energy into other elammels.

This period may la long or short, manly dae to the climate, area,
 tie portion of the Conted states it was comparatively short: in the
vast area of Brazil. Bolivia, Pern. (Volombia, or the Argentine Republic. with the almost mimited natmal resomedes of these comntries, it will be long.

South America is the world's great storehomes of natmal prodnce which, to develop and make available, will require a capital greater than the acemmated savinge of the world and a population at least ten times greater than it now has.

Its indertrial progrees for the fifty or sixty years following freedom from Enropean political control was comparatively slow, and offers a striking contrast to the rapid progress made ly the Cuited states dming the same periot.


WIE.AT AWAITNG 'TE.INSPORTATION, ARGENTINE REIPGBIC
The production of whent in the Repnblic is abon! five and a half million tons a year, of which over four million toms are exported, mosily to Eurone.
Einopean, and to some extent American, writers have been adenstomed to aseribe this more or less backwardness of the sonth American Republies to a defect in Latin-American character and to mon--table political conditions. Latck of a smstained purpose and revolutions were the reasons given why in wealth and population sonth America was so far ontetripped by the I 'nited Stater.

This view is msombland is fommed in false premises. North Americans and Emropeans who are acquainted with such cities as Bhenos Sires. Rio de Janeiro, and Santiago, and who form their opinions at first hand ber obervation. find no eseential differences in

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industrial capacity, energy, initiative. or even "bnllheadedness," if that be a merit, between the bnsiness men of these eities and those of London, Paris, or New lork; and the immense and rapid progress in wealth. industries, and popmation of these and other south American cities. within the last fifteen or twenty years, proves conclusively that no such differences do exist. Rio de Janeiro with nearly a million, and Buenos. . ires with over a million population, have within this thort period grown with a rapidity outstripping, if possible, the phenomenal growth of some of the cities of the United States.

As regards revolntions, there has been much misstatement and distortion of actual facts. small distmbances which elsewhere sarcely would be dignified with the name of riots are set down as revolutions. As said by a distinguished South American diplomat at the Trans-Mississippi Commercial Congress in Kansas City, "When a dronken soldier discharges his rifle or emits a smbersive yell, lo! on the instant the cable commmicates to the whole world-revolntion in south America! The press makes merry in painting our coumtries under the most ridicnlous phases. On the stage a hundred generals march out in command of a single private, and this is called a South American Army."

The trinth is that for the last half century Sonth America, compared with the rest of the civilized world, has enjoyed more than its proportionate share of peace. There are ten independent Repnblies, comprising, with the Guianas, the whole of the continent. As against these ten it would be difficult, if not impossible, to place ten other countries in which there has not been for the last fifty years, or even from the date of Sonth American independence, say 1820, more of war and revolution. Look at the map of Emrope as it was in 1850 and as it is to-day. With the exception of the British Islands and the Scandinavian and Iberian peninsulas, the political lines of Emrope have been recast so as to render the whole picture imrecognizable. This is the result of war and revolntion in the oldest, most civilized, and presmably most stable section of the . ryan world. The political map of south America, with one exception, remains practically the same now as it was at the date of independence, and that exception, the dissolution of the greater Colombia into the three States of Veneznela, Colombia, and Eenador, was accomplished without war or revolution. The failure of the South American Repnlines since their independence to attain that degree of growth in wealth and population attained by the United states since its entry into the family of nations is due not to any defect in Latin- American character or in any large mensmre to minstable political conditions, but to natural and economic canses.

First, the United States had the start by nearly forty years in the race for Enropean smrphes population and capital. This at a period
when the pressme of population in western Emrope was begimning to be felt and demanding an outlet, and when the accmmataion of (apital was becoming sufficient to warrant foreign investment. For this immigration of men and capital the United States and South America were direct competitors. With the tide turned in its favor for a start of forty years, the United States was able to hold and to increase its first advantage.

Second, in this competition the United States enjoyed a second advantage in that it, like Europe, lies wholly within the Temperate Zone, while the bulk of South America is in the Torrid Zone. The prospective Enropean immigrant would natarally seek that comery


DRYING HIDES, ARGENTINE REPCBIIC.
The export of hides of cattle irom the Argentine Republic is in value about twenty millions of dollars per annum, of which less than one-third goes to the l'nited states.
where the climate, soil, and crops most nearly approached home conditions. Sontl America, with the exception of the sonthern part. presented in climate, soil, and crops conditions more at variance with Enropean conditions.

This rivalry has ceased. The tide of Enropean emigration in men and capital has tmmed toward South America and the C'nited States takes on a new character in the indnstrial work. It is now a rival with Emrope for both the Sonth American export and import trade. It becomes the part of wisclom for it to recognize this changed position and to readjust its relations with sonth America. Both will be the gainer:s by the change, most of all South America, in that it loses


CATTLE ON THE PAMPA IN ARGENTINE REPUBLIC.
an industrial rival and gains an indentrial feoders. Bat the gata is not entirely one-sided: the I'nited states will protit not alone in what it sells to bat also in what it has from sonth Americi. As an inchastrial rival of Emope it must look after its finture supply of raw material. It must be remembered that the gains from the trade in raw material may be as great or even greater to the comatry importing than to the combtry exporting.

To illustrate, take the position of Englamd as to the cotton trale. It imports raw cotton to the valne of abont $\$ 300,000,000$, of which twothirds is from the ['nited states. After smplying its own nede. and it is the largest domestie comsmer of cotton among the mations of Emeore, it exports in cotton yarn and mannfactmes groods to the value at the phace of shipment of orer sinoo.000.000.

As a storehonse of raw material sonth Ameriea is murivaled. To develop this storehomse throngh habor amb eapital means the imblastrial progress of the ten Repmblies, and it also means the industrial adoantage of the comntry smplying the eapital and lamblling the produre of this development.

It has been a ranse of more or less complaint her certain North Smerian writers that the Caited states orempies the position of hoying more from sonth America than it sells to it. This is a shortsighted and mistaken view of the sitnation.

Europe has in the past orrmpied the same position toward the Ituited states that the Genited states now ormpies toward sonth Amerian, amd Emope has not failed to profit be the situations. 'The exports from the Cuited states to sonth Americea are of mamafactured groods, and its imports from the same sertion is in raw material and forel products. If there is one chement more than another enter-
 "pon which the former should be congratulated, it is the fact that it has alreaty acequired so large a shate in exports from someth Amerien. Frome the stampuint of the laited states it in of comere to be regretted that its share of the imports into sonth Americ:a is not greater tham it is, but this regret shomblat be compled with ang wish to limit or antail its shame in the experts from somth Ameriter. Its
 world with mamfatomes, bat also in merning the raw material fom


Ontside of food products. of whid collere the valase of abomt
 the primeipal imperts of the lonited states from Sonth . Dmerica are




cent; bones, horns. ete., one million. 30 per cent; tanning barks and extracts, over one million, 80 per cent; nitrate of soda, fourteen millions, 100 per eent: copper. over five millions, 11 per cent; cablinet woods, two hundred and fifty thonsand, one-half of 1 per cent; vegetable ivory, four hundred thonsand, 85 per cent; asphaltum, nearly two hundred thonsand, 40 per cent.

This list is not inmosing either in length or in amounts, but it tells the tale of the begiming of what is destined to become a great industry in the United states, in fact the industry upon which the future wealth and commercial importance of the comentry must depend, an export trade in groods manufactured from imported crude


CATTLE IN COLOMBIA.
The probluction of cattle is one of the growing industries of colombin. A recent reduction in the export duty from 83 to 81 per hemd ix having a bencticial effert on the trude.
material. Already the United States has reached the point where it imports, of sonte of these products, an amount greater than it reeds for home consmmption, great as this is, and is exporting the surplus as a finished product. For example, it imports crude rubber to the value of sixty millions, 60 per cent from South America, and an additional 6 per cent from Mexico and Central Mexico. Ifter supplying its own needs for home consmmption, which exceeds by double the need of any other conntry in the world, it exports, in finished and partly finished rubler products, to the amoment of seven and one-half million dollars.

The mannfacturers of the United States are familiar with the fiber plants and textile grasses of Emrope. Isia, and North America. They import of Manila hemp eleven millions, of Mexican sisal fifteen millions, and of British Indian jute eight millions of dollars in valne yearly. In addition Italy and Rnssia furnish hemp; Great Britain, Russia, Belgimm, and the Netherlands flax; Mexico istle; Germany, Great Britain, the West Indies, the Dutch East Indies, New Zealand and Africa furnish other varieties of fibers and textile grasses, all to the value of millions of clollars. imported into the United States. From this import there has been built up a large foreign export trade in fabrics. bags, cordage, and twine. Sonth Imerican fibers and textile grasses are practically monown to the mannfactmrers of the United States, the one exception being Pernvian cotton, of which from three to four million pounds are annually imported. With this exception, the valne of all varieties imported for five years is as follows: 1903, \$86; 1904, \$5.615: 1905. \$2,300; 1906, \$..255; 1907. $\$ 2,033$. This is an average of $\$ 3,458$ a year. Brazil or Veneznela either might supply an amount greater than this daily and then not equal one-tenth of the import of sisal grass from Mexico.


HABVESTING IN THE ABGENTINE REPUBHIC.

# A SOCIAL FUNCTION IN HONOR OF LATIN AMERICA 

The Latin-American Delegates to the Thberenlosis Congress were the grnests of the Director of the International Burean of American Republies at dimer in the New Willard Ilotel, on september ej. 1908.

The object of the dimer was to weleome to Wathington such members of the Tuberenlosis Congress as were then in the city representing Latin-Smerican combries, to make them acgmanted with one another and with some of the higher officials of the Department of State. the Latin-American diplonatic corps, and other distingnished gentlemen.

The Director of the Burean was to leave on the efith to attend the National Irrigation Congress to be held in Alhonqergue. New Mexico, where he will read a paper on " Irrigation and Reclamation of Lamd in Latin America." and make other addresses on Latin America at the Chamber of Commere of Las Angeles, California; the Trans-Missisippi Commereial Congress, San Franciseo. California: the Califormia state Cruverity, Berkeley, California: the Chamber of Commeree of Portland. Oreqon, and that of Seattle, Washington, and the Publicity Club of Mimeapoli-, Mimnesota. It was not posible for him to postpone the date when he conld weleome all of the Latin-American representatives, on behalf of the International Burean of American Repmbles, as the Tuberenlosis Congress will have adjommed before his retmo.

The delegations at the dimer were represented as follows: In Entario Laceaia. President of the supreme Board of Health of Mexico, Chairman of the Mexican delegation; Dr. Ferman Rommat ez, Jr., Delegate from the Argentine Repulblic; Dr: J. J. Itaon, Delegate from Costa Rica; Maj. J. R. Kens. Chaiman of the Cuban delegation; Dr. Femanamo Rexsohi, Cuban I)elegate: Dr. (nambes W. Richamsons. Chamman of the delegation from Eamador; Dr: Ramon
 Delegate from Mexico. The Department of State was represented by Mr. A. A. Abee. Acting Secretary of State, and Mr. IIretingon Whans, Thirl Assistant secretary. The Latin-American diplomats present at the dimere were seño Don Jometa Bemamo Cumo, Minister of Costa Rical Señor Don Eiphanio Pomplas. Minister of Argentina; señor I on Lats Toman Ifamamen, Minister of (inate-



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mala; Señor Don Artcro P’apro y Alınema, Chargé d’Affaire: of Cuba; and Mr. J. WV. Baz, Secretary of the Mexican Embassy. Surg. Gen. Walter Wrans. Phblic Mealth and Marine-Iospital Service. Dr. J. S. Fulon, Secretary-General of the Tuberculosis Congress. and Señor Don Francis co J. Vines. Secretary of the International Burean of the American Republics, were also present.

At the proper moment the health of the Iresidents of all the commtries of the three Americas, proposed by the Director of the Burean. was drunk standing. Director Bareett then spoke a few words of welcome to the Delegates on behalf of the International Burean, and introdnced Doctor Futros, the Secretary-General of the Congress, who also welcomed the Delegates and stated that becanse of the increasing knowledge in the United States of the Latin-American comentres and its seientific men. due in a great measmre to the efforts of the International Burean of American Republics, Spanish had been made one of the official langmages of the Conference. Doctor Laceaga. of Mexico, in a felicitons speech of thanks, replied on behalf of the Latin-American Delegates, and also paid a highly gratifying tribute to the International Burean and the work it has accomplished in the lofty task of making all America one common home. one common motherland. Other speakers were Mr. Adee. Acting Secretary of State, who also extended a warm welcome to the Delegates, and wished them success in their noble and hmmatarian mission. Señor Calso, the Corta Rican Minister: Señor Portran, the Argentine Minister, and Doctor Toledo Ilerrarte, Guatemalan Minister, all were happy in their remarks in reference to the great event and the hopes entertained for the success of the Congress. Surgeon-(General Wrans spoke of the wonderful work on samitation done in Mexieo. mainly through the untiring efforts of Doctor Laceaca, and of the greater significance of the work of the Burean. Doctor Richindsons. Chairman of the delegration for Ecmador, and Doctor Revsoli, of the Cuban delegation, showed their enthensiasm for the work to be undertaken, and their keen appreciation of the necessity of fighting the ravages of the white phague relentlessly.


# THE FLAGS AND COATS OF ARMS OF THE AMERICAN REPUBLICS 



## - IRGENTINE REPUBLIC.

TIIE hational banner of the Argentine Republic consists of two kinds, the first being known as the " war bamer " and the second as the "handera menor"" or the flag of peace and commeres. The former is distinguished from the latter in having a golden or vellow representation of the sim in the center of its field: otherwise both flags are identical, and each is so arranged that it contains three horizontal stripes, the first and third being blue, while the second, or central, one is white.

A halo of romance and simgular dramatic interest is attached to the history and origin of the Argentine national banner. It was invented by Gen. Mandel Belgrano in 181:2, and received, the following year, its baptism of fire and blood when Belgrano won a brilliant victory orer the Spaniards on the 20th of February, 1813. The Congress of Tucuman formally recognized it as the official standard of the new Argentine Commonwealth, then officially designated as "The United Provinces of the Rio do la l'lata."

The standard of the Argentine Republic is something more than merely the national flag of the Republic; it is associated, in a large measure, with the glories of Latin America, for, under the consmm-
mate leadership of the two liberators, (ken. Sax Mamis and Gemeral Belgrano, it was destined to wave over Argentine armies that bore freedon and enlightemment over the towering snow-eovered Cordillera of the Andes into Bolivia and Chile. and thence northward into tropical Pern and Eenador.

The Argentine colors, sky ble and white, may be traced back, according to tradition, to the medieval times of Spain, when, during the battle of Roncesvalles, a singular duel occured between a Biscayan soldier and a Frencla color bearer carrying a flag with two blue stripes and one white. The former slew his opponent, and on accoment of his achievement received the title of "Aspiazn."

Dismissing this quaint legend for what it is worth, there can be no donbt that the British invasion of the Rio de la Plata region, or what is now known as "Argentina." in 1806 and 1807 , and the subsequent and mexpected success of the people of Buenos Aires, throngh their own maided eflorts, in routing an army of over 6,000 seasoned British veterans and compelling them to capitulate, in spite of the support of a powerful fleet ( $\mathrm{J}_{n}$ ly 6,1807 ), had considerable influence in inducing the Argentines to adopt ble and white as their mational colors. This grorions " Recongnest." hesides cultivating self-reliance and a national spirit, cansed a large amomat of the spoils of war to fall into the hands of the native Argentine militia, and among thic booty was a large quantity of blue and white cloth. 'The varions IIispanoAmerican corps which fonght against the British wore generally blue and white miforms. Mont potent, however, of all the eamses that led to the final adoption of these colors as those of the new-born Argentine Republic (at first officially designated as "The United Provinces of the Rio de la Plata") was the fact that dmring the popnlar commotion and excitenent on the memorable 2sth of May, 1810, when the last Spanish Viceroy. Casmemos, was still hesitating about bowing to the will of the people of Buenos Aires and resigning his power, one of the popular leaders whose name was Fibencon entered a store and secmed a duantity of white and bhe ribbons which le began distribnting among his followers. This was really a brilliant itea, these colors having become extremely popular since the repelling of the British invasion of 1807 , ats the crack native Argentine regiment, known as the "Patricios," or " P'atriciuns," wore blue and white miforms.

The entire 45,000 inlabitants of Buenos Aires were now fired with enthusiasn, and the Marquis Cisnemos, yielding to the inevitable, resigned the power of Spain into the hands of the new provisional Argentine Republican Govermment. Since that time, in song, poem, and story. in peace and war, the beantiful $\operatorname{Argentine}$ blne and white mational flag has waved trimmphantly, and the centemial of its birth will be celebrated at the opening of the great Argentine Eflucational Exposition, on the 25th of May, 1910.

The national shield or cont of arms of the Argentine Republic, as officially recognized by lereident Alcomstis decree dated May et. 1907 , may be described as follows: Its essential principle is that of an ellipse, divided into two halves by the horizontal diameter of the same. The field of the mper half is sky blue. and that of the lower is white. In the center of the upper section there is a carmine red liberty cappo which is supported loy a vertical golden staff. the latter boing so arranged that one-third of its length lies in the upper or blue field. while the remaining two-thirds are in the lower or white field. The staff is smpported, in its lower extremity. by two clasped hands and arms, which are at an inclination of $45^{\circ}$, and are of natural flesh tint. The circminference of the ellipse is completely euveloped by a crown of two intertwined lamel branches. whose foliage is painted olive ${ }_{\text {green. }}$. It the very apex or zenith of the ellipse there is the representation of a gelden smin, with two eves, and mudulating rays of sellow and brown hes. The lower extrenities of the lamed (rown are tied torether ly a bow of sky-blue riblon.

According to the researehes of Doctor Zebshbos, of Buenos Aires, the details of the $\operatorname{Ir} r$ entine coat of arms may be traced bark to the remotest antiquity. As an emblem of power the sm was depicted by the ancient Egyptians on their momments and in their state reeords. The two clasped hands denote fraternity and mion, while the liberty (ap) was worn in (ireece and Rome ly a slave when his master eman(ipated him and declared him a freedman. It thas became. in the conse of time, the emblem of liberty in general, and, as it were, the inspiring standard of freedom in the sevile insmrections of antiqnity.

A close study of the heraldic arms of the leading families of Spanish mobility proves that the essential design of the Argentine national shicld may be traced back to the remotest epoch of medieval Spain. It was, therefore, perfectly natmal, when the first Apani-h conquerors undertoook to colonize the La Plata or Argentine territory, that they -honld take pride in dixplaying their traditional heraldic shields upon every araikable occasion. There are to this day. many Argentine families of the highest aristorratic Spanish descent whose ancestral coats of arms closely resemble the mational shield of the Argentine Republic.

The cireumstances leading to the adoption of the present Argentine national shicld are of historic and romantic interest. The color-s. blne and white, were adopted, tacitly, as those of the new Argentine flag when. in 1810 ( May $2 . i$ ). the people of Buenos Sires deposed the last spanish Yiecerov, estalblished a provisional republican junta or divectory, and inamgated Argentinås heroic and eventful struggle for independence against the might of Spain. The new bamer was consectated in a baptiom of fire and blood when Gen. Manter Beagrano won a brilliant victory over the spamiards at Salta, on the goth of Febmary, 1813. A little over three years later the famons Con-

gress of Themman, which, on the 9th of July, 1816, had issned the Argentine stirring declanation of independence, enacted on the exth of that month, a law formally recognizing aud sanctioning Belaormoos flage the the mational standard of Argentina.

The cosential features of the Argentine coat of arms were, however, not fully elaborated mat Janmary 1s1\%. when the patriotic ladies of Mendoza City, which lien at the foot of the ematern. or Argentine. shope of the towering Chilo-Argentine Cordillera, decided to present to their distinguished compatriot, (foll. Don dosía de Fis Marríx, a splendid banner. called "The Bumerer of the sum." inst as this celebrated somth American liberator was preparing to condnet a thorongloy equipped and disciplined expedition of $\operatorname{s,000}$ Argentines and Chile:ms west ward aderos the forbidding. smow-eovered. lofty. and almost impassable Andes. into Chile, where he expected to strike a decisive blow againsi the spamands. This banmer wan made entirely by the fair lamds of the Mendoza ladies. It was made of silk, and its entire fiehd was divided. hori\%ontally, into two equal stripes, the upper being white and the lower a light greenish blae. In the center of the flag. colting equally the white and blue stripes, was depieter what. in its main emsentials, is now the elliptical or oval national shield of Argentina. The edges of the banner were richly embroidered with precions stones.
'The new Banmer' of the stun was publicly consecrated in Mendoza City amid the most elaborate religions. military, and divie reremonies, on the sth of Jammary, 1817. Sts the standard was mented to the breeze a salute of twenty-one eamon was fired, after which all the seectators and soldiers shouted: " Long live our Argentine native comntry!" General swx Murix then, holeling aloft the bamer, exchamed, in a vibating voice : " Soldiers ! Swear to mphold this standard. and die, if necessary. in its defense, as I swear to die!" ." We swear to do so!" came the response, amid a thiple discharge of musketry, followed by a salvo of twentr-five camon shots.

Six days later the Banurr of the sum waved over the Army of the Andes as camp was breken and the entire experdition, marehing westward. prepared, with General Six Marríx at its head to brave the aretic terrors of the Chilo-Argentine Cordillera, and rapidly disappeared from view in those fright fu! momatains. This expedition. in the amazingly brief period of twent $\begin{aligned} \text { - four } \\ \text { days, traversed alont }\end{aligned}$ 1.50 miles of the Andean leights, and, descending into Chile, surprised and routed a large Spanish army at the Crest of Chacaboneo. on the 10th of Febrany, 1817. Nlightly ower a year later, at the battle of Maipo. April s. 1818. (Wile was forever liberated from the yoke of Spain and began her career as a prosperons, conlightened, independent republic. From Chile the Argentine-Chilean Liberating
 dor, and partially effected the liberation of those Sonth American

Republics, their complete emancipation. owing to the retirement of General Sas Martis to Emope and private life, being accomplished by General scoke, the great Bolivines second in command, at the crowning victory of Ayacheho, December 9,1824 , fonght in the loftiest Peruvian Andes.

The sacred B'amerr of the s'm, after having trimmphantly waved over liberating armies throngh the now enlightened Republies of Argentina, Chile, and Pern, or very nearly over one-half of South America, found a resting place, after eight vears of battles and storms, in the Government IIonse of Mendoza City, where it was reverently kept as one of the glorious heritages of Latin America.

AUTHORITLES AND BHBLOGRAPLY OF THE NATLONNL BANNFR AND COAT OF ARDS OF THE ARGENTINE REPCBLAC.
The following are among the most anthentic sources of information concerning the national shicld and banner of the Argentine Republic: 1. Aunorio del Ministcrio de Relociomes Lerteriores y Culto de la Repuiblica Argentina, publiato por ordeu y bajo hatección del Exmo. Señor Ministro Dr. E. S. Zeballos por Danifl Antokolet/ (Del Alinisterio). 190s. Buenos $\operatorname{lif}$ es.
A valuable oflicial publication. coutabing leresident Alcorta's decree, dated May 24. 1007. prescribing in detail what the oflicially reqgotized Argentine shield and banmer are. This ammal has a finely colored plate of both the shield and banmer.
2. El Eseudo y los Colores Vaciomales por Estanishao S. Zebadios (Extracto

A carefully prepared essty, by the learned Ioctor Zabalos, Agentine Minister of Foreign Affairs, on the origin and history of Argentine's eoat of arms and hamer.
:3. The hate (ien. Bartolomé Mitre, ex-I'resideut of the Argentine Republic, who has an international reputation as an aceurate historian, gives important and interesting data on the Argentine lammer in his II istorion dre Brgrour, Volmme I, (Chapter X, page 341 et seq.. and relates how the Argentine national colors, sky hhe and white, came to be adopted. In his " History of
 ( $h a p t e r \mathrm{~N} I$ ), the celebrated Argentine and South dmerican liberator, Mitre. gives a very interesting aroont of the famons Bamore of the sum, made by the ladies of Mendoza ('ity, and bome log san Martín in 1817 and smbeduent rears afooss the towering dules, during his military cammaigns for the liberation of Chile and lern.


# THE NATIONAL HOLIDAYS OF THE AMERICAN REPUBLICS $\therefore \therefore \therefore \therefore \therefore \therefore$ 

## ARGENTINE REPUBLIC.

THE one national holiday in the Arqentine Republic, which is there ammally celehrated with all the enthonsiasm of the American Fourth of July, is the 25th of May. becanse, nearly one lamdred years ago, on that date, 1810, the last Spanish Viceroy, (Brasmos, was deposed by the patriots of Bnenos Sires and republican institutions inangurated by a revolntionary junta or provisional directory asming the reins of power until popnar elections conld be held and a deneral constituent congress of the La Plata Provinces, as the Argentine territory was then designated, conld be convoked. In due time this Congress assembled in the pietureque tropienl city of Themman, in northern Argentina, and, on the Oth of July. 1816, issmed, in the mame of the " United Provinces of the Rio de la Plata," a stirring Declaration of Independence.

The history of the birth of representative govermment and repmblican institntions in the Argentine Repmblic is replete with interest. The antecedent canses of the Arqentine Revolntion of May on, 1810, may be traced back to the British invasion of the La Plata region and the temporary occnpation of Buenos Xires (ity in 1806 and 1807, and also to the sulbugation of Spain in 1808 by the French armies of Emperor Naboleon I and the long captivity in France of the legitimate thongh imbecile Spanish sovereign, Fermsanio VII.

Under three centuries of Spanish rule and colonization the Viceroyalty of Buenos Aires had enjoyed a dormant, mprogressive existence antil it was suddenly aroused by the mexpected arrival at the mouth of the Plata River of a British fleet of 6 war ships and 310 grans, on the 10 th of June. 1806 . The eity of Buenos Aires was practically defenseless, and as the Spanish Viceroy Sommante completely lost his head, an improvised defense had to be maintained by a French naval captain, Sistago Laviers, and a young Argentine militia captain, Mantel Belgraxo, who was later to become famons in the amnals of his mative comntry. ITnder these circumstances it was easy for the British Admiral Chames Bemesford to land an attacking force of 1,600 to 1,800 men, and, on the 27 th of June, 1806, to capture Buenos Aires.

The British，left now in madistulned possession，introdnced bene－ fieial reforms．among others．the eathlishment of the first printing press in Argentina．The mative popmlation．however，still rematned loyal to the mother comntre，span，and symptoms of discontent fuickly beran to manifest themselves．A month had not elapsed before a revolt was orqanized by Captains Lavims and Bbabrano； aswistance was seemred fiom Monterider，and，on the 10 th of Angnst， a decisise action was fonght，which proved disastrons to the ibritish． Next day Lavams penetrated into the city，and on the $12 t h$ Admiral Bemstomb was eompelled to make an homorable capitnlation，after having los $: 300$ killed， 1.200 taken prisoners． 3.5 camon，and 1.000 rifles．An Mrgentine heroine，Maxtan La Tucumín，distinguished herself in this battle．

Natmally，when news of this hmiliating disaster reached London， Great Britain，smarting at the thonght that motraned Argentine militia had inflicted such a blow to her prestige，determined to take adequate meanmes to recover what harl promised to berome for her a vahalble sonth American acouisition．Aecordingly，a powerful British fleet transporterl．be way of the Cape of Good Ilope，an experlition of 10.000 veteran troops of the line，under Lient．Gen． Johs Wintelocke．

The fint action on the part of the British，on again entering．from the Atlantice the month of the ethary of the Plata River．Was to beriene Montevideo City，120 miles west of Bumos Aires，which was
 alrady di－patched thither a relieving army of $\because, 000$ ．Is soon，how－
 raged inhabitants．with the cordial eooperation of the Cabildo，or

 mander in rhiof．with Bancienso as his liemtemant．The latter now －howed himodf vere rimergetic and ordered a dromeral enlistment of

 rionns．＂whore white and light－hher miforms were later to shgegest the rolon＇s of Argentians mational bamere

Mamwhike the Britioh，who now hand at their disposal 12．000 tromp of all anms．Were＂plally adive．＇Their rommander．Lienten－
 amd had hi－firet artion with the ．Argentine patriots on the od of

 ar wall ：1－be the blumler－of the Briti－h momander in rhiof．who． in attronpting to take the rity by asmalt，diveded his forme into three detarhment－： 9 preating from the north．sonth．and west to east．＇The
 cerded in penetrating a con-iderable distance into lanemos . Dires, then containing for,000 sonls. The heroie inhabitante mainained a desperate defense. harling down stone and poming boiling water from the that-roofed honse npon the foreign invaders with such effect that the latter were fored to beat a hasty retreat.

The eontest between the contending amies contimed mentil the sth of July. when an homoralble (apitnlation was granted be Gemeral
 prisoners and ahom 2.000 killed and womded. of virtatlly onefourth of the ( $\mathrm{f}, 2(0)$ troop) making the attempt to recapture banos. dires.
 emberipation, with imposing ceremonies, of to negro haves, chosen by lot ont of (est stave who had gallantly aided in the defemse of Buenos Jives.

A new era was dawning upon this La llata region of sonth America. Self-reliance and a latent bet growing feeling of independence were speating among the Argentine patriots. who. left mproteded by spain, had recomed their uative comatry from a most formidable foreign invation and had won the reepeed of the mightiest empire in the world. They were, therefore, in mo mood to aceept tamely the remblt when slow-going saling verels from bimope bromght the news that
 ereign Femmano Vll, amd placed Josem, the brother of N.holeon 1. upon the spanish throne.

For the time being, the Irgentine were content to form argeney, governing nominally in the name of lemonsand VIl. but it som decanme apparent that the old colomial régime mast terminate. With this emd in view, the repmblan minority, hed by bandino, Doetor

 l'atricio and other native pegiments, and, on the éth of May. 1 sio. made a formal writtem demand upon the weak and vadeilating Viceroy
 instantly resign. The latter hesitated for a few honss bats perreiving the uedesoness of all amed eonflid with the emtioe population of the eapital, yideded to the inevitable, and survendered his power into the hames of the new prowisional republiean junta or rommittere of direerors.

On that ampicions day, Argentina began her heroid war for independenere against the might of spain, and tiftern years later, together with her sister Repmblies in Mexioo. (entral Imerien, and someth Anerie: berame free and independent, with foll opportmity to develop along the lines of enlightemment and prosperity:


678 NTERNATHNAL BLREAL OF THE AMERICAN REPGBLICS.
It is no womler. then, that the Argentine Government hat determined to relebrate the eentemial of her hirth as a mation ber holding in buenos Dires a great I'an-Amerian Edncational Exposition. which will be opened on the ézth of May, 1910.

THE NHTH OF JULY-ITS NGXHFICAN(E AS A NATIONAL HOLIDAY IN THE ARGENTINE REDPBLIC.

Two national holidays are ammally celebated in the Argentine Republic-the 2.th of May and the !th of July. On the former date. in the rear 1sho, the patriots of Buenos Airen eompelled the last spanish viceror. ('isamos, to resigu, and established a provisional republican independent government. Then and there Arqentine indepentence was born. hat it was not to be maintained exedet at the ront of a prolonged and sallouinary wat agamed Sbain. The Mrgentines hath. however. the comage of their consictions, and. on the sth day of Jnly, andio. their first National Constithent Congress asembled in the pieturespue city of 'Tindmant, nothern Areentina, and issued at stiring deelaration of independenter, making the following remarkable prophere vonerning the futme proserity and greatness of the Areentine Republie:
$\mathcal{V}$ ast and fortile territorides, varion and hemign climates, abomant means of
 tory, athe line prolnetions of every kind will attrict to our continent immor-
 phace of refuge and exteme al bentioent protertion."

Bearing in mind the circumetanees muler which the Congress of Tucmann is-rned its Argentine Derlaration of Independence. their action was an exhibition of smblime faith and comse. becanse, in 1sili, the fortume of the patriote thronghomt Latin Americt, from Mexico. Venezula, and Coblombia on the north, down to Chile and
 apparently the medi-phted mistress of the sitatation both npon the -eas and on land. Itar lange, veteran, wellempuiped and armed
 the vant continent of Latin American with the exeption of Brazil, which then was a colong of Porthgal. So deperate was the sithation for the patrints that it memed wer donbtal whether the Argentine armies cond sucesesfally proted their native combtre from the ineme -ions of the spaniarls is-ming from the lofty Ambean momatain

[^3]passe: of uprer Pern (now Bolivia) to the north and of Child to the west of the Argentine Repmblic.

There is no donltt that the wiedom. foresight, and comrage of the Argentine atatemen asembled in the (ongreen of 'Tucmman contril)bed powerfully in reacoing the canse of liberty and embightenment in Latin America, when, on the !th of July, 1skti, they adopted the Argentine Declaration of Independence, and proclaimed to the world that $A$ rgentina was to become, in fate ac well as mame, a free. republiean, sovereign mation. The futme brilliant vietories of the great liberators Bonitas. Sis Mastix, amd siote were rendered posible, and nine yeam later, in 18.5 , spain low all of her posest sions in the New World, with the exception of C'uba and l'uerto Rico.

One cant therefore, mulerstand why, thronghont the Irgentine Repmbice the !th of July is relebrated as a great mational holiday.


# BRAZIL'S NATIONAL EXPOSITION 



VERY litale was known of Brazil until the last few years. when, -uddenly, Iike Minerva springing firon the head of Wupiters the catme to take ber phace in the foremost rank among the mations of the world.
In the first few geans of the lepmblic little could be dome for the ageramdizement of the combtry at large. earch State being fully orenpied in adapting herself to the uew form of gevermment ; but even dmeng the revolt of ninetr-there. the only one in the history of ome great Republice a great hupulse was given both to industry and agriconlmes. Showly moty the giant awoke from her sleep! Perhaps the evolution was mot as rapid as that of her great sister Repmblic, thit once haring set her foot nom the mpward mareh she has taken " Exacelsior" for her motos, and thanks to the emergy of a chosen hamd onn comatry ocrupies to-day the place which is hers hy right, in virtne of her size, geograplical position, aud the immmerable riches with which mature hats endowed her.

To commemomate the hmelredth amiversary of the opening of her ports to the commere of the work, which was decreed in the reign


of Joms VI. Brazil wishes to show to all nations the progress she has made in all the arts and industries, and in no better way conld we prove this than by the great exposition which was opened on Angust 11. 1!0s.

The l'raial Vermelha (red beach) one of the most picturesque spots in Rio, had been chowen as the site of the great exhibition after muth


ENTRAN('E TO THE EXPOSITION GROUNDS.
This monumental gateway was designed by Rene Barba. a well-kuown Brazilinn architect.
disension. Many were in favor of more central points. but the Brazilians. ever sentimental. fonmd that the everchanging sea was the most fitting frame for the fair White City. which, in an incredible short space of time, was erected upon the sandy beach.

Night and day thousands of men plied their work with but one thought to animate their brain, to nerve the muscles of their arms-
to show to all the world what Brazil has achieved and what her come can do. . Ill party phint was laid aside, all the twenty-one States of this great Republic worked harmonionsly together. from the giant State of Amazomar to the smallest one. sergipe-e eren the newly acquired territory, Acre joined hands to make the exhibition a great and perfeet shecers.

Nothing ronld be more leantifnl than the chosen epot: in the backgromed the great dark momntains, the Babolonia and Vrea, raise their heads to the sky: the sugar Loaf, of world-wide fame, stands as a sentinel at the entrane of the lay. the wave of the


FEIJERAL DISTRICT BUILDING.
vast Atlantic lap the shore, and dhring the might the searchlight flashes over land and water.
The exposition ocenpies a space of over 200,000 :quare meters.
The mode of ingress for pedestrians is the lange archway, which is lit by thonsands of clectric lights, and when ilhminated by night the myriads of colors give the impression of an enormons rainbow.

As one enters, at the right is a large lmilding in which are exposed the many products of the varions industries of the different States of Brazil. Upon entering the largest room the first thing to strike one's view are the reproductions in miniature of the great In readnoughts which before long will join our Navy. The principal room offers


PANORAMA OF A SECTION OF THE NATIONAL EXPOSITION GROUNDS.
 Building i* in the backromat


THE TEXTILE INDICTRIES B['HLDNG
 - Whomy


THE B.LNGÛ FACTORY BLILDING.
This building was ereeted by the langí Textile lills for the exhibit of ite products.

## 686 INTERNATIONAL BUREAC OF THE AMERICAN REPUBLTCS.

a fairy-like -pectade-thon-and- of diamond-. topazer, rubier, ame-thys-t-s all fomd in our miner. - parkle behind great plates of grass; otlor show canes are filled with mitgre and rare minerals, gold dust, etc.

Among other things worthy of note is a collection of jewelry of great historical value.

Large figure of bronze stand aromad and fine paintings decorate the walls.

Coming into the next rooms one conld fance oneedf in a large



THE EAO l'Al'LO PAVILION
The Säo l'anlo buiding stands next to that of Ninas Geraes, amb rovers an area of 4,503 square feet. It is one of the finest bnilalings of the exposition.
from the danty hat decked with the bright plmmes of Brazilian birds and flowers of home mannfacture to the tiny Lonis XV shoe.

Ihat the male sex has not been forgotten; everything to clothe the lmman form divine is displayed here.

One rection is given np entirely to furniture: the diflerent woods of Brazil are shown here in all their beanty, and great taste has been displayed, and some of it has been purehased by an English nobleman to adorn his castle in old Albion.

It would take too mach space to describe each section in full ; indeed, it were hard to decide to which branch of indnstry to award the palm, where all have done their best.


> restaurant "pão de assucar."

 artiatic buildings. in which. on alternate night-. -mmptions- ball-. concerts. and reeptions are given.

The one of Bahial. althomgh the smallest. is hey means the least beantiful: two winding staise lead up to a spacions torrace from which the view at night is like mento the Arabian nights.

The pavilion of Minas is the highest. with a large tower where thomsand of lamps cast their light wer the whole grommet.
'The bulding in whith fano l'aulo dioplays her vast wealth is of great artictie beantre meminding one of an oriental monge.

the exposition the.ter.

The only foreigu mation represented here is Portngal, the home of onn ancerons. As one enters within the portal of the ". Innex." the name given to one of the Portngeres hililinges. the first thing upon which oness eyes rest is a life-size painting of the murdered Kisa Cambos. The menfomate monareh had acepted the invitation to visit ome exposition. and the thomsants of his subjects living in Brazil hat rejoided in the prospect of seeding their beloved monared in their midet. But, alas, it was not to be! Ilis son. the present King Maxteace sent a picture painted bey the royal hambs of his departed father, a landecaper, a smmer pace in a forest which shows him as much an artist as a king.

'The dife of Porthgiese painters are represoled here: portraits. still life. marine views, are all gromped in artictic conflasions. It scancely needs to peate of the beanty of the silverware made in l'ortugal. only one thing I will mention partionlatly the mansine loving



MBRGTLTIRAL DEPARTMENT BIHAMNG
The vast rooms of the former military achalemy, now trans ferred to the State of Rio Girande do sul, are linng with draperies of silk, linem, and cotton groods of multifarions colors. Nearly evergthing which man needs is to be fonnd within those walls. Seated in one corner, girls are seen stitching cravats; in another, men are weaving
hammocks, here the shomaker plies his trade there the bookbintere binds his hooks: a small world within a large one.

What is this harge white hilding which first strike one view upon entering the gromeds? It is the buikling of the Federal Dintriet, and in size and beanty wonld honor any capital of the world.


THE MINAS GERAES BULLIING.
I stately and solidly constructed building, exprossing the power and woalth of the great contral state. It was dosirned by the limallian arehitect, debecehi.

A building reminding one of a swiss chalet is filled with the flora of Brazil: another is dedicated to piscienlture, and in a large aviary thonsands of birds display their bright phamage: near by the blooded horses of Rio Grande. horned zelons, prize dogs, and fatted sheep are grouped.

Exery ammement is to be fomm within the precinets of the fair. On the batrels of one theater the national drama has its home: : variety show is to be fomed in another we: diflerent cinematographs


POST-OFFICE AND TELEGRATII BUILDING.
amme the crowd. while skating rimk-, merry-go-rounds, etc., are preferred by the many children who daily throng the grounds.

Each week there are three romes: Wermeday afternoon the erite of brazilian eociety. in carriage and anto. drive along the pahm-lined aromer of the Exporition: on other days bievele and horseback ribler- take the same way.


にETACRINT

Worde can not dearebe the fovelinese of the scene when at night all the buildinge are illmminated. when thonsands of Japamese fireworke aremel to the rky and a mombtate of people coming hy land and sea promenade the many aremes. merry childern drive about in wicker carringe. whik military hamls dincomre -weet music. It seems indeed like an endanted dity.


BAHIA BUILDING.




Let us hope that before long onr great stateman, the Baron of Rio Brameo. the elampion of pan- Imericanism, will be able to realize the great desire of the Brazilian people-a vast exposition in these same grounds, in which all American Republice will take part.

Ilembert Moses.
Rio de Janfeimo.


THE PORTCHEESE 1PAV1LION.
This pavilion was erected and offeren hy Brazil th the Portugune hation tor exhabition purposes,

## MESSAGE OF THE PRESIDENT OF MEXICO



 at the preant time.

In regard to foreigur relations the Chiof Execetive saly that the relations with foreigu mations comtimb satisfactory and that there


With repered to the lonited stater. he mily:



 staltes that-















P'ostal comsentions lave been contered into with some of the Central American States, and an extradition treaty has been cond haded with Itondmats.

 the meanines that shond be taken to carry ont the decisions of the there intermational conferences of Smertean states. In dhe time Mexieo will appoint representatioes to the conference to be hedrl in Rio de Janeiro it May. l!o! to draw up code of international law for the nse of the nations of America.

The treaty of arhitration with Italy, signed at The Hagne on October 16. 1906. the supplementary ronvention with (iommany amembling the convention of May ot, 18: tiot

the declaration of laris of $A$ pril 16.1 s.its, with re-pect to maritime law and the abolition of letters of margue. have been promulgated. belegates have beren appointed to attend the diphomatic conference on moternational maritime law to be hekd at bruseds in December. 190s.

The field work for a detailed :mrey of the Valley of El latso. embracing a rathins of some $\because(0)$ kilometers. has been completed by the mixed homblary commis-ion of the ['nited states and Mexico. Spedial Commissioners of the two (iovernments are engenged in insextigating the problem- incolved in the irrigation of the Colorado River Valley. in which both combtries are equally interested.

The sanitary comditions of the coast are excellent, and stringent mearnes have been put in fore to combat dangers from yellow ferer and other contagions dieense throughout the country. In the war againt mallpox. 10.000 persons have been vaceinated. and 6.000


During the fiscal reat an arerage of $4.1: 4$ persons were eared for daily be the charitable institutions of the Republic at a cost of $1.307 .000 \mathrm{prsos}$.

The works for supplying the capital with additional drinking water are well advanced. some of the new water leing already received in the eity, and the construction of additional reservoiss is well mater way.

The construction of 3.360 meters of main sewers in the Colonial de lan Condesa in the capital prepares the way for the sanitation of the suburh of Tacnbaya. More than $\sin (0) 0$ square meters of asphalt, 1., 000 square meters of stone parements. and 10,000 square meters of flagstone sidewalks have been lad during the rear in the capital. and ground costing 22. 2.000 pesos. needed for public improvements, in the ('ity of Mexico. hass been acquired by expropriation proceedings.

The congestion of business in the civil comests of the capital has rendered imperative the establishment of a new civil cont. The commission for the drafting of the federal code of penal procedure has concluded its work, and the Execontive lopes soon to promulgate the new corle.

The transactions entered at the Public Registry of Property of the (appital during the first half of the present vear ageqregated (i69.+3!3.3)( pesens. or more than 400.000 pessos in exess of the transactions for the first half of the previous rear.

A new primary law for the Federal Distrid and teritories has been promulgated. Regntations have been issined for medieal in--pection of schools. and in order to prevent the spread of contagions skin diseases among children it has been decided to create a sperial sehool for children suffering from ringworm in which suitable treatnent will be given to such pupils. There are at present 45.439 chil-


dren of school age in the ('ity of Mexico. -ome of whom do not attend whool, and the (iovermment is taking the neressary measmes to see that all of these receive the proper instretion.

The (iovernnent is giving eperial attention to the operation of hommal mbools. athed has takell meanmes for the areation of mew buildings and the securing of a higher standand of efliciency in the dhacation of teachers of both rexer.

The Ibateriological Instithte contimes to prepare vaceine and - erom, for oweming :matlpox and the phatere for the ne of the superior ibond of Ilealth. The Medical Institute lats commened at -ristematio stuly of the loora and faman of the Valley of Mexico. 'The "duipuent of whools has been imporowe and expecially is this true of the primary and normal schools. the mannal traininge schools. and the wientitie erhools and colleger of the eapital.

The clans of ethoology of the National Masemm has made important expertitions to the states of Tamanlipas and Veracru\% for the purpose of stulying the indigenons laters of thase reaions the dase of areharology of the Masem of Zacatecan has investigated that subject 111 said state. and at group of pmpils in the rieinity of the burning well of I oos Bowas have been sent to observe that phenomenon and the manner of combating it.

A new building has been erected and empipped for the Selool of Arts and 'Trades for W'onem. and the departments of areharology and history in the National Mnsemn are being entarged. The exploration of the pramids of 'Teotilnatem comtimes, and a milway line to hamb away the débris has almost heen completed.

The (iovermment las appointed delegates to the First Pan-Ameri(ann Sicentifie Congres. to be held in santiago. ("hile in December of the present year: as well as delegates to the first International Congrees of Moral amd social 'raining. hedrl in Lenten in september, 190s, and delegates to the International Congress on 'Tuberenlosis, heh in W:ashingtom from sequember $\because 1$ to Oetolere 1:, 1 !90s.

The Execontive has alse appointed delegates to a commitee to make preparations: for the fomblation of an international institute to inquire into the canses and emres of mental diemaere, and as chaimant of the Mexican committer of the First International (ongress of Administrative sedemes, which will be held at limeels in 1910. he has appointed the prement Minister of Finances and will appoint delegates to the 'Third International Congress of Family Edncation, which will meet in Bramels in 1910 .

The Government has acepted an invitation to have an exhibit in the Exposition to be held in Boston from October at to 31.1 190s.

From Janmary to Jmes bens, the Inepartment of Fomento issmed
 the Federal Exchequer 170.392 pesos.

The work of completing atemeral map of the lepulbe is beine encomaged by the Ahminitiation, and the hydrographe map of the state of Nitero Leon, the first of a series which it has been derided


SESEION IIALL OF TIIE MUNICIPAL BTHLDHNG, MEXIOO CITY





(0) prepare with a view to the acquisition of a bettor kow ledge of the rivers of the conntry and the utilization of their waters. hats been fini-heel.

A commision is now rudying the flora amel faman of the Repulace in the state of sam lais Potosi, and will proceed from that state to the States of Ninevo Leon and Veramor.

Networks of meteorological stations have beend otablished in the states of simaloa and sonora, and obervations were taken of the erelipe of the smo on Jme ese last.

The mining titles isoned from Jamary to Jume, 1908, numbered
 is-ned dhring the first half of the fiseal year, make a total of 6.600 tithe deeds. covering 119 , (i3) + hectares.

The (ieological Institnte has made topographical survers of differcont formations of a comsiderable part of the state of (onsaca: has completed an examination of the Penimsula of Vencatan and of the Verde River, in the state of san Lais Potosi ; hat made a hydrographice sturly of the basin of La Lagma, and has made a report that will form the lasis for the construction of a great dam on the Nazas River.

The agricoltural stations at Cindad Juarez and Rio Verde have done important work concerning the improvement of the breeds of domestic amimals and the prodnetion of new crops. I central board of forestry has taken an adive part in the planting of trees in the neighborhood of the eapital, and has stutied a project for the formation of an artificial thme, planted with trees, near the eity of Vera(r11\%.

Stock raising has been encomraged. and concessions have been granted to the Coyocan association to hold perionlical shows for the exhibition of stork. and se.oon pesos has been appropriated for prizes and expenese of cattle amb horse shows.

From Jamary 1 to June : 30 of the present year, 22.5 patents of invention and 10 for industrial designs were granted. The trademanks registered nmmbered inn. commercial annomecments : 3 , and commereial names: $:$ :o.

Waterworks for Coatzacoalcos have been completed, and 8.50.000 cubie meters of earth have been removed from the port by dredging. The port of salina Crimz has been dredged to a depth of 10 meters at low water, and improvements have been made to the dry doeks and drains of the city.

The railways under Federal eontrol nomber 18,800 kilometers which, phes $4 . S t(0)$ kilometers muter the jmiscliction of the states. makes a total of es, (it!) kilometers of ralway in the Repnblie.
 the fiseal year 10, 000.000 pieces of mal matter. ismed ionan..000
 drafto. The total carninge of the post-oflice department for the last fiscal year were $4: 200.000$ pesos.

The total length of the Federal telegraph system is fie.tas kilometers.

The reedipts from datoms dhties for the fiscal year ended Jme :30, 190 s . were a little more than 5.000 .000 peses.s. and the total revemes of the Repolble were 110.000 .000 presox. approximately.

The National Railways of Mexico have indaced the holders of shares and bond- of the National and Contral hailways. to surrender the secmities of those companies which have their domicile in the I ${ }^{\text {I }}$ ited states in exchange for sermities of the new company domiciled in Mexico, and the publice issnes of bonds of the new company have been langely owembecribed in foreign eities where they were offered to the publice.

At the invitation of the (iovermment of the C'nited States, a physician and surgeon has been appointed to attemed the ammal meeting of the Association of American Military smegeons which will take place in Atlanta, (reorgia, in October, 190s.

In conchsion the President says:
What I have told yon will prove that the Exechtive has spared no effort to kerp all the departments of the Administration on the path of progress alome which for yars past they have traveled to the greater welfare of the lieprobiar.
 empoys, and nothing can deprive it of those benefits while that order and peater
 good semse of the Mexican people and the embithemed patriotism of the lagislators, that the prosperity of the Ibepmblie will emdure and wins sreater as the years wo log.


## INTERNATIONAL CENTRAL AMERICAN BUREAU

TIIE International Burean of the American Repultics was informed ons september 15, 1!nos. of the inatumation on that date in the capital of (iatatemalat of the International ('rantral Ameriant Burant. Thio intitution i- man of the prat-

 from the s:miont romatrise of (entral Smeriea the following dele-gatt:-



 which manked the opening of the Bareath amd the oeration was matle one of pmblice rejoicing.






 all that may temd to make it more antive amd profitables amd to ad-
 int the ditherent eretionts of the lapmblice.
()ther impertant fimetions of the Burean are to make miforme


 in the -y
 perially the sanitation of ('entral Smerican ports. :and miformity in the setent of weights and meanmes. will wereive the carefor attention

 a fommation for aredit amd permit the atalblishment of mortgige lamk-. is also one of the important subjects within the seope of the Burem.

The Burean i- compored of the delegate enter from eateh of the Cembal American siatemand is empowered to make all provivion of internal regulation that mas. be emblacive to the porer fallillment of the mi-ron of mantaning and developing the (bontral Ameriean
 -ix monthe the bareath will make a detailed meport to each of the (iovermmont- showing what it has arompli-hed dmong that periots. The help, of the diphomatic and eomentale agente of the eomtracting

 the Burean in the promerotion af it work.
 in conal poportion- ly the signatory power- and the Bumall will
 do all that it may deem proper. withan the seope of its pewers. lowat the development of the mations and interet- of the (ombral Ameri(an Statere. The barean will have an organ of pulbicity in comere
 othere allare of a like nathre and partionlarly with the International Bureat of the American Repulblien Wathingtom. The romention "reating this buran will remain in fore for fiftern ferm from the
 at the will of the contratinge nations.

## PAN-AMERICAN SCIENTIFIC CONGRESS.

Señor Ausero Virtix. of Chile. Pro-seretary of the Committere
 meets in santiago. Chile. on Werember ere next. has an artide on the



## AMERICAN AND EUROPEAN MENTALITY.

The interes growing from day to day which the roming PanAmerican sidentife Congres awakens among thinking men and in puble opinion of the American combrise exeeds gereatly that taken in the brilliant Latin- Imeriean asomble which met in Buenor Aires. Montevideosand Riode daneiro. This greater interest in the Congress which will asomble in onr combtre is due primarily to the new ghes tions to be worked ont on this comtinent. which the Congrese will pre-
 Smericanime given to the Congress lye thereement to invite the United states to take part in the work.

In the congreese of Bueno- Vires. Momteviden and Riod de Jameiro madoubtedly an elevated ppibit of solidarity was dominatnt, since in them partieipated the most cultivated intellects of the Latim-American lepublice ats a crown to whose work an aggregate of prineiples was emmeiated, vital to the political. social, and economic life of these Republio.

The derision by which a Pan-American character has been given to the eoming Congres acepuired publid importance. eecing that this decision will hate its part in cementing. upon the basis of mumal moder:tanding and intellectual commmity. friemblip with the Cuited States-a comblry that now for some time has drawn toward the yomge Ameriean Repulbice not in order to sati-fy hastard ambitions for territorial ammations or any suld like pmeneres. but in order to offer them its aid in sucerofnlly fulfilling the duty of progres lat opon arere nation aspiring to hold a plate in civilization. So, if the
 Congress shall contribute to give th that asembly greater prestige than was enjoyed ber former armblies. or. if it giver greater weight to the wotes and decrisions of the Congres.e all of this will constitute simply a gatin for the American combtries.

In regard to the combrion foreigut tomerica the coming Congress would be remios if it mases not a stambad destimed to mortally wound prejulice and false ideas that have kept us for nearly a century subjeet to an intelledtal havery in which Eurone hat- dominated and inflatered ats with its laws. customs, hisory, and literature. From time to time the voice of some far-seding stateman has been raised on the virgin soil of Americal waming its people of the great danger that would rome to them in areepting blindly this political. social, and eromonic literatme which Europe has dumped upon ns. Useless labor:

Ilere no one lends ear to the warninge of thoes who. apprectating and exteming highly the intellecthal aid which Enrope proflem: ns, wish at the same time to take an inventory of what we are receiving, in order to choose what agrese with us and to refuse what does not areord with our social organization- onn entoms, the traditions which dominate ns: and with ome education which. finally, is the regulatore of progresive capacity.

It was necessary that the American mations sift ont all the solutions which to their political. social. and eronomic organization are offered by the conntries of monarehical institutions. like England: of a great working-rlass element. like France and the exporting eomery par excellence. (Gemany. It was necessary. we say. that these principles emberlied in the institutions of these comntriow shonld have been a complete failure, in order that in the end a way is made for the
idea that America mmet develop it. instimtions in the light of its history and the peculiar comblitions of its social state.

To form an American mentality, to carry to the laws and to the national organism its own breath of life, to trace in the special pecoliantion of ead people that beet for its moral, intellectanl. and mater rial perfectionment-here is the benefient idea which it is propored to make central at the coming Congreos. We are convinced that this, iden mot rule. for it is the only means of accomplishing throngh the adoption of rational laws based on experience. the puritication of omr political and administrative system. and the serming of a fixed economic policy.

At present everything tends to clear the road, in order that the intelligence of the three Americas may join eflonte so as to bring to the solntion of all these problems a eriticism cool, independent. and entirely free from the imposition of a foreign medime.

Once the abowhte supremate of Enropean ideas and raticism in reerard to the interest of the people of cohmulnses world was explieable. The emmities and jealomies which kept these peoples apart, want of rommmication letween them. the diflientey of intellectaal commeres. precemeo of material commereo-all this conjumetion of ciremmetances worked so eflectivel? that Emope was for nearly a centmy the sehoolmistress who gave us her primers on political organzation. her tracts on political eronomes. and her text: on petagogr: Onv peakers in Parliament in enlightening pulblie opinion leaned mpon the anthority of Burvasomb. Stiame Mifl, Abam smitu, and others.

To-day all is changed. Very powerful emrents of cordiality circulate throngh the American organism: thinking men from the sonthern half of the continent draw together with men of the northern half. inspired bey sincere purpere to staly together the ghestions which concern the common comentry. Amerian, mitil now in the grip of prejudices retarding its march toward progres.
'The reation of an Anerican mentality constitntes a menace to no one. nor is it a formmata to bring into being political alliancer formed for agresesive purposes. No: Ameriea arknowledging the merves it has receivel, and is receiving from Enrope. (em do no less than absorb into its nature ideas and opinions which mited to the ideas and opinions gained from ome own leaders of thonght, shall form a borly of doetrine which will more and more elevate us in the world concert. Chile may justly feel prond of the movement she has initiated.

The enlarged Pan-Americanism of the Congress, as also the epecial recommedation involved in the idea that on one continent are a series of problems which can not be solved by the same criterions with which Europe would solve then. are opinions formulated by the

Committer on (organization. It is not. theng an sombe have beliesed, the carrying ont of renolutions agreed non her the late (ongres.

It is very gratifying to take note of the emblasianem with which the [inited states has redeved the idea of the Comgres. That commtry will take part in the arembly, not only repremed hey arge and seled delegation. But with ant active and eulightemed propaganda throngh puldic opinion.

 not to flame the sinister trappings of a condition of armed peatere but in order to give all example to the world that there is no vietory mobler than that ohtamed in subjeding the matmal elements to the (allose of haman progreos.

## TIE YEGETABLE IYORY OF COMMERCE.


 France and spain an (omeot muts and in Colombial as tagna muts.

 meredally for the mantiachare of hathons partienlarly. gaming connt-
 work, for which they are turned or wared.

The Central American hepmblies gemerally grow and export ivory mat-. hat the hasines is particularly important in Colombial Pamama,









The chief perts of shipment are Colon, in Panamas, and Cartagena and Thmaco, in Colombia.

The ehief consmang combtries of this article are France. England. (armany, the Fuited states. Italy. Rasein, and spatin. The port of Catiagena in Colombia alone experted ivory muts in 1 got to the

 ments of Bolivar. Magelalena, and Athantico on the Athantic coast and Cancal on the Patific coast.

## ARGENTINE REPUBLIC

## TRADE DISTRIBUTION. FIRST HALF OF 1908.

In the total formign tembe of the Argentine Republice for the diret

 lealing participating combtio wan an follows:

 mentioned. with the exception of (iermanes. as compared with the correponding period of the prededing fear.

 was aredited to "order,"






 a deedine of neanly str,000.000 and the latter an adrance of orer S.0.000.000 as compared with the same six monthe of 1906 .

## BUENOS AIRES BANKS IN 1908.

The report on the stathe of the banks of buenos Sires on June 30 .


 $\$ 2+48.380 .975$ mational currencry.

## THE MILLING INDUSTRY IN THE REPUBLIC.

The report on the milling industry of the Areentine Repmblic for 1:907. as premented to the Ministry of Sericultimes. shows 330 establishments and !99.f!9 tons of wheat milled. The resultant flomr
 and sino.33st tons retained for home consmption. The by-prodncts manufactured were bran, $165.33: 39$ tons: middlinges. 93,0:38 tons, and pollards. 18.964 toms.

As a reenlt of the motern methode employed in mont of the mills the field of flow has athanced from date per cent in 189.5 to 68.3 per went in 1!0\%. and as the areage of impmerite in the wheat is only
 taken in the selection of wed be the farmers.

Of the total mumber of mills in the cometry, 60 were not in opera-
 power. and :39 mixed.

In the consideration of the eares work it is fomed that erery 100



The location of the raions milling exablishments is as follows:


Drring the year the mmber of mills increased by th. of which ? are eredited to Salta, S to Entre Rios, fito San Jnan, it to La Rioja, $t$ to santa Fe, $f$ to Santiago, and other localities in smaller mmbers.

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MODIFICATION OF CUSTOMS REGULATIONS.
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Article 128 of the Customs Regulations of the Argentine Republic has been modified as regards the allowame for error in deelaring the quantity and quality of imported goods. Prior to the prommenation of this law, in cares where the entoms examination of imported groobs revealed that the articles contained in a patkige were of - merior clase or quality to or prexent in larger quantity than that -et forth in the declanation for deamanee no pematay was impered
provided that the difference in vahe arising therefiom did not exceed $\because$ per cent. or as regards the quantity of thone goods which are datiable bey weight. did not exeed of per eont.

The effect of the alteration now introblaced is to abrogate the tolemner of ${ }^{\circ}$ per cent as regards quantity and to substitute therefor a tolerance of + per tent in the case of the following goods dhtiable by weight: Textile materials and mannfactures thereof: paper and (ardhomrl: chloride of lime : shgar. tolareo in bales: lime in wooden receptacles: ehicory. coffee and eomestibles preserved in salt, in bales or wooden receptacles. All other gooks, without exception, become snbject to the general tolerance of 2 per cent.

## PORT AND MUNICIPAL IMPROVEMENTS AT ROSARIO.

The port improvements. inangurated on a large seale at Rosario will. according to the report of the French company in charge. be completed and officially inamerated by the close of 190 !. The works are sufficiently adranced to provide berths for 15 vessels, and a channel of adefuate breadth along the frontage has been dredged so that resels drawing $2+$ feet may enter and elear with ease. The entire port can provide loading berthe for abont to vessels and for $\because 0$ to en to discharge.

The contract price for constracting the port was fixed at \$13.000.000. but it is eximated that, exclusite of grain devators and other works which the same rompany is molertaking at a cost of abont
 is propered, if the consent of the Argentine (iovermment be obtained. to extend the moles on the north side of the rity ley miting the Xiational and Central Argentine wharfo. thas making the total lengeth of wharfage agrgregate abont :a miles.

In connection with the port works on the somth side a large grain devator, said to be the largen and best equipered in Sonth Americe. has junt been ereeded at a dont of \$1.000.000). Eight large veserss can be berthed alongeside to receive grain in bulk or lage, and 1.000 toms per home can be loaded, while grain can be reeceded from the railway wagons at the rate of sol tons per home. Storage facilities of the beat type and modern methods for handling. clasifying, cleminge drying. and weighing grain have been installerl. The materials med in con--tration have been supplied prine ipally from France. Germany and The Netherlands.

An electrie tram servie is nearing completion in the city. sereral eretions having been opened during $190 \%$. The total extent of trackane is to be is miles. the total wot being se, (600,000.

Wiaterwork and satitary intallations have been qureatly improved mader the direction of a britioh eompany. bat the extension of the town alls: for improved and extemed aberage work-


PATIO, SAN ROQUE HOSPITAL, BUENOS AIRES.




Railway comertion- have been extended ant a route opened up from the eapital via kosario to the northem limits of the Province of Santa Fre. On the Cortuhat and Rosarion line work is progresinger
 will comert the barow-gangersem with the interione making it possible to travel vial lasario. (ortobn, 'Tncoman, ant dujuy to the most morthern Provinces, almost to the Bolivian frontier. A new railway, finamed by a French emmpany, in to tap an important dis-



ROCKING STONE OF T.NEDIL. IRGENTINA.





comnection is to be made between Rasario and Port Belgrano, at which latter point port works are to be erected. Other improvements have been made by the combined ralway companies whose lints connect with Rosario.

The population of the city, according to latest :tatistics, is 160,000 , the Rosario tlistriet ranking to that of Bumos Aires as the destination of immigrants arriving in the emment

Import raluations at the port of Romario for 1007 are given as $\$ 31,957,597$, as compared with $\$ 29,013,667$ in the preceding year, the

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 -pectively. 'The total movement of the trade of the port in 190 is


## IMPORTATION OF RAILWAY MATERIAL.

The ralway material imported into the Arentine Republic during the first half of bow largely dimini-herl, as rompared with that of the same period of the precerling years. The decrease is dewe in part to the fart that there remained mumed at the hegiming of the prevent year an exese of construction material. rolling stock, and railway -npplice importod in fommere yand is pobably only of a tem-
 mamy of the old one improved and extemded. As this material is admitted free of duty. the revemes of the mation have not been athered from this canse. The following values in geld. show the imports of milway material during the firt halves of $190 \mid$ to 190 s .



## HARVESTS OF 1908.


 vear: divided among the Provinces as follows:

|  | l'roviner. | 1907-s. |  |
| :---: | :---: | :---: | :---: |
| Bnemos - ires |  | Tims. 2.0.0.5. 391 | $\begin{gathered} \text { Toms. } \\ 2,3: 30,0 \mathrm{nO} \end{gathered}$ |
| Santa Fe |  | 1,019.20x | (iin3. 378 |
| Corrlobra. |  |  | A9, 326 |
| Fintre Riow |  | - 47.74 | 2611.731 |
| Pampur (entral |  | 207. 471 | 80, 100 |
| Varions..... |  | \%, 610 | 71, (40 |

The value of the santa Fe and Cordolan rops is very evident, the two Provinces acomating for nearly three-fomethe of the million tons increane noterl.

The figure for linsed are ar follows:

|  | I'rovince. | 1907-®. | 1906-\%. |
| :---: | :---: | :---: | :---: |
| Bnemos Aires. |  | Tims. <br> 3:2.306 | Toms. $34 \times, t i 43$ |
| Santa Fic. |  | E11, 734 | 248.920 |
| Corchoba |  | 110, 44 | 66.427 |
| Entre Riow |  | 151,410 | 116.470 |
| lampa Contral |  | 7,012 | $\cdots$ - 000 |
| Viarions |  | 2. $\times 0$ | 2.500 |
| Totat. |  | 1.101. 710 | N2, \% 64 |



## BRANCH LINES TO THE BUENOS AIRES AND WESTERN RAILWAY (LIMITED).

A law has been enacted by the Argentine Congress giving the Buenos Jires and Western Railway (Limited) the right to constract and exploit the following branch lines as a part of its railway somem: An extemsion of approximately 100 kilometers ( $6: 2$ miles) of the railway from Toldos to Roberts and the fifth meridian to the western boundary of the first section of the Central lampa: a branch from Las Toweas station toward the sonth to the western limit of the second section of the Central lampa: a branch from or near Pelamajo station to Tres Lomas, and a branch which. intersed inge the companỵs main line at Mercado (entral de Fritas, terminates at Riachelo. The gange of the branch lines will be the same as that of the main line
 tion of the law referred to, the cencessionaire must sulmit for the approval of the Exechtive power complete plans and extimates of each of the branches, and construction work most be commenced

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within six monthe from the date of the approsal thereof the con-
 struetion work is not finished within the time -peceified.

## EXPLORATIONS IN PATAGONIA.

 a former profesore in the [niversity of Chicago, after a recent exploration trip mate beg him throngh the sonthem part of the sonth Anmerient (ontinent, althongh reporting a manked sameness in the (, mt ward appearance of Patagonia on both tho Argentine and Chilean side of the peninsula as far as the i-hand of Terra del Fuego, never-






 making observations in this newly settled comery:
theles- finds a great many rariations in the geologic structure. flora. and fanma of the combtre $U_{p}$ to the present time baming a few exeptions. only preliminary investigations have been made in these particnlar fields of study. so that. from a sientific point of view. there till remains mach to be done in the examination of this interesting and langely minkown zone of the somthern part of the Weestern Hemisphere. A sperial study has been mate of the fossils of this region, and more or lest conflicting theories have been advanced concerning them.

The Andes in this part of the continent are rich in minerals. Coal is fomme thongh not of a grood quality for fuel. due to the fact that it belongs to a comparatively recent geologic age. Is to the petro-
lemm of Patagonia, it can uot be unfaroraly commented npon, hat, at the same time, no good reasons exist for too highly optimistie liews concerning it.

Doctor bexnests, who is an eminent philologist, regrete that theres is no complete hitory of Patagonian, and epecially that mowiontific -tudy has beem made of the langate of the abortiges. the mare -o when it is borne in mind that some of the tribere erem deatimed to disappear within a few decades. suld. for instance as the Tohnelerdie Indians. In Chile, however, excellent invertigations and thedion have been made of the langmge of the Arameanian Judians be (erman
 world.


TIGRE: HOTLEL. PRUVINCE OF BIENO AHRES.
Little Venioe of Aremtina' is the name given to the country in the viomity of this lootel.
 1 k miles by rabroud from that eity, in the deltatand of the lat lata hiver. Here are the beadquarters of the Tigre Liowing Clib, one of the largent in the world.
As to the importance of Patagonia from an ecomomic standpoint. it is stated that it is the combtry pere exeellenee for the raising of sheep. horses, and cattle, and that not only the fertile valleys of the Ferritories of Rio Negro and Chanbut are sutable for the growing of agricultmal products. but that those of many other distriets of that region are equally well adapted to this purpose. Large portions of Patagonian (an be easily intigated, and a wreat number of valleys at the foot of the Audes Range in that district are covered with luxuriant vegetation.

Ite fomm tha climate of latagonia exedent. notwithetanding the cold nights in winter and the whe winds which ofted blow with ron-
 tically virgin. and mos of the population now there eonsiot- of mom.

Wheremer there is a demamed for labor in latagonia the wage paid are goot-higher wem than the are in other parto of the Argentine
 ansions for the sonstrution of railroals into their rid and mate-
 11 the promotion of ralway (anterpriace in that eretion of the Republic. lont are clamoring for the prompt building of railway lines.







## PUBLIC WORKS FOR THE CENTENNIAL OF 1810.

The Irerident of the Arementine Republic lats recommended that the ('ongrose enat a law proviting for the commemomation of the exelemial of the revolution of May oro. 1sto, which culminated in the


 the ereetion at the embeme of the port of baemos. Xires of a stathe reprementing the Repmblice with the following inceription: • Paner and liberty to all nen who wi-h to inhabit Argentane soil:" the errection in the Plaser dre Ma! of a emmemonative momment to be -elected bey due National (entenary Commision: the eonstruction of a National Pamtheons. or Mansolemm. for the reeption of the athes of the panks of the eapital of stathes of Mabman Momeno. Bmanamen
 . Jose de Flores of a tatile of Pemmane: the ereetion in the Mmicipall latai of the tapital of the Provine of Bmenos Xires of atmome
 the constrate in in the ('rmper de latere of an artificial momal. composed of the soil of that battletield. mixed with earth bronght from
 pilled the momel to be -mrommed bey repremtations of the bravest troops in the War of Indepembere and erowned be an allegorical - eene of the patriot amy vowing the seeds of liberty and haresting the finit- of glory.

## BOLIVIA

## REVENUES COLLECTED IN 1907.

The revemes collerted hy the (iovermment of Bolivia in 1900 . accorting to atatement pmblished by the Department of linance
 (s.5e.000). The principal items showing increases in the amomes. ass otimated in the budget, were consoms duties, consular invoicer. corporations and mining companies, state telegraphs. patente and trade-mank. pow-oflice boxer, stamps. miversity entramere and grarhoating feer. and tax on lignors. The principal items showing a de(rease, as compared with the otimatere of the butget, are tin. copper, bi-muth. gold, rubber, aleohol. mortgige drafte. rubler lamds. mining licenses, sealed paper. docmment stamps. pulbir lando, mining plans. and the (xatequi Rallway. The excess of the buget in 1907 over the


## ANALYSIS OF SARA PETROLEUM.

The Bolivian Minister of Colonization and Xgricultmre, some months ago. sent samples of petrolem from the Province of sara to be analyzed by expert chemists in the L'nited states, who were to report on its chemical eomposition and indnstrial qualities. The report received by the bolivian (xovernment show that the oil is of first-class quality and it is peossible that the petrolemm district of the Republic may become a sonre of national prosperity.

## SANTOS COFFEE STATISTICS.

The coffee market at santos for the twelve months from July 1 . 1907 . to Jume 30.190 . an compared with the preceding fiscal year shows the following mowement :

|  | 1906-7. | 1907-\%. |
| :---: | :---: | :---: |
| Entries | Buts. $15,302,170$ | $\begin{aligned} & \text { lisqg. } \\ & 7,203, \times 09 \end{aligned}$ |
| Shipments | $13,515,914$ |  |
| sule | (14) | 206, $2 \times 5$ |

[^4]

SAN BARTOLOME MOUNTAIN PASS, POTOSI, BOLIVIA,
There are a momber of mathat lasove in the boliviath Andes, most of them at an imposing height, atfording acrese from one wertion of the wommery the other.

In the fonl prineipal foreigin market- the transations of sales and

 (lom. 1.049.(0)0 latur.

## NEW BRAZILIAN LOAN.

In conformity with the law of I eermber :3, lantand the dereer of




 ally in Lomdon. P'aris, and Amstertam on Jamanc̣ 1 and Jnly 1 ol

eath year'. The isone was mate at the rate of e9t per \&ilot of nominal value. The bonds are redeemable in nine veatrs and in nineteen semimonth! drawings.

## STATUS OF THE COFFEE LOAN AND VALORIZATION.

The financial commiten of the Legislatite of the state of situ Panlo has approwed the bill creating an additional dhty of 20 per cent




Following iv a transation of the text of the new sian Pambo lan anthorizing the ine ereate in the surtan on wotler. the limitation of ex-





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 years.
 1:N\%. levied on all coffere experted from the state shall be raised to 5 francs or its ednivalent in comrency, ealemated at the oflicial mate of exchange of the day.

AbT. 3. 'The (iovermment of the state is herelow anthori\%d to proceed at once
 sary for the defense of coffee and to consolitate all loans matertaken for this pirpose.

I'ar. 1. The latil abont to be cemtracted shall, in addition to semeral gimranties. enjoy the collateral gharanties of the eoffere bonght and still held by Gove comment. and the prodict of the surtax referred to in the preceding artiole.


MHNHCHI'AL PALACE, RHO DE JANEHRO.


 district. The exeentive anthority is exereisen by a profect, or mayor, appointed for four years by the President of the Republic.

I'ar. 2. The problict of the sales of coffee belonging to the state, which shall be effected as occasion offers, shall be applied to amortization of the lean comtaiseterl in virthe of this antherizations.
l'ar. : (iowermment shall introflue into the contract the contitions of inter-
 may alerm all ixalde.

Ant. 4. . Ill disumitions the the contrary are herely reword.
The following are the lemeling points of the nessage of the Presi-

'The maximm yiold has now been reathed from the present coftere pantations,

actual state of the plantations, should. on the melrostameling that the law restricting pantation remains in fore , in future years provide an arerage yida

 which is to a certaln extent combinmed ly statisties covering the phat tive years. it may safely be sald that the wodl's ontpht during the next tell years will aremge about $1 \overline{\text { a }}$, onoono hags. It is therefore evident that the erisis the to overpoduction is effectively conguered, as the modnction is positively limiterd to the problecing ealacity of the existing plantations. whereas, on the of her hame, comsmmption is constantly and progressively increasing, and at present there are no intications of a lussible interruption of this favorable reaction, which can only amment as the legithmate fruits of the present vigomons pop arambia rampaign recently intiated in several fomntries. lader these eir-

('ITV OF OCRO 1'RETO, BRAZ1L.

 center of weahh in Brazil. Railromal connection with lio las been esinbli-led, with the result that the old (anpinal is being rapinly transformed innon motern city.
ramstances, ant laving overeome the originating elements of the erisis, it is. however. necessiny to atmit that the sitnation is not what it should be since the value of eolite is malntaned at a basis which does mot remmorate productions and this is manly dhe to the varying output of the phantations, as well as to the smplus storks carried forward fom previons seasoms, and the sreater bat of these at present are held ley the Sion Ianlo forermment.
liom the foregoing smmmary of the sitnation it is evident that two important me:asmes should be adoned and execoted, the first of which comsists in reme

 satisults, When the elearances reach these limits a sutlefently hish tan will be
 mre refers to the convenience of providing the fovermment with ample funds to keeg its stocks out of the market as loner as the eoffere does mot rise in


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that an additional surtax of $2-$ frames should be decreed on all eoffee experted from the state. The present :3 firmes smrtax is not sufticient to cover all expenses in commertion with the staters holdings. As eiremmstimees advise the meressity of keeping the (iovermments stock ont of the market in order to insure sucess, it is ohwions that the Treasury should he furnished with the neressary fumls to ment correspumbing ohligetions with dme pmetnetity, ats Well as to emable the romsalidation of the existing loans which were eontrated

 Which will be sumtated lọ the coffee held bye the finserment and the revenne fortheoning from the athement smotas. (oollections proceding from sales of coffere are to be appled th the amortization of the elebt.

It is reported that the new $\mathfrak{E x , 0 0 0 . 0 0 0}$ eoffee valorization loan has been subseribed as follows: New lork, throngl: the City Bank, is to
 Berlin, and Brissels, E:3,000.000 between them.

## THE PORT OF SANTOS IN 1908.

The santos imports for the five months of 1908 , according to figures of the Brazilian Burean of statistie: for that city, were $\$ 15.401$. )so.
 were:

| Connitrs. | 1907. | 130\%. | Conmers. | 1196. | 1905. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Germany | \$2, 611, 3*9 | S2. $2 \times 1,506$ | France | E1, 105, filt | E9\%\% 1 1\% |
| Aryentime Rejublis | $2,2 \times 3,517$ | 1, 920, 70 | (ireat Britain. | 4, 16:3, dubis | 3, 93: 317 |
| Aswtria-11tmgary | $20.7,746$ | 196, Min | 1 taly | 1, Mi. 164 | 1, 6ink 4n |
| Belpiam | 513, 269 | -46, 037 | 1 lortugal | 43,318 | inil. 213 |
| Cuiterlstat | $2.254,9 \times 3$ | 1,590, 294 | Other commtr | 917.717 | 1,121,671 |

The lows of the United states so far in the year, accordingly, has bean grater than the a verage loss. The imports by principal items: were as follows:

| Artiele: | 190\% | 1:00. | Article. | $190 \%$. | 1! 1 R |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Cotton umb cottong gext-. | S1,159, 482 | 81,139, 3 3i | Jute | S934, 40s | E152, 31 |
| 1 rom ant sterel. manume. |  |  | (\%arl | 731,76 | 492.9 .6 |
| turel aml bot matm- |  |  | Keroset | 354, 36 | 260, 936 |
| firstured. | 1,719,997 | 1, 599. 762 | Rice | 12, (120 | 4,924 |
| Immetrial Mathicuery.... | 219, 9t2 | 517, 512 | Corlfish | 399, illi | 380,801 |
| Agricultaral mathinery . | 73, 171 | 91.5 ¢ | Flour | 1,081,952 | 536, 832 |
| Other mathinery nind |  |  | Whrat | 1,057, 38.9 | 1,332, 304 |
| Ittel-ils................. | 199, 4ini : | 1,133, 62:3 | Win! | 1,310, 175 | 1,10s, 18ti |
| Cheminal mat pharmat |  |  |  | 1.193, $2 \times 12$ | 1,095,472 |
|  | 351.60 | 301.85 | Stomey mul muxte | 214.12 | 9, |
| Lenther- . . . . . | 240, 30, | :100.340 |  |  |  |

The stor of export- is. of comese told in the figmes for colles. The total experts for the period this rear were sog 2 (ots. 5 , as com-



| Coffee | E\{2,911.17] | - $26,016,465$ | Mathabeira rabler.... | $5 \mathrm{Sa}, 015$ | \$16, thi |
| :---: | :---: | :---: | :---: | :---: | :---: |
| salterd hiter. | 73, n, 41 | 5.3336 | 13 cma | 2- 121 | 75, $\mathrm{IN}^{\prime \prime}$ |

The amome of coffee exported from Santos during the period reviewed was 2.(6ã. 411 bage as compared with 4.754 .059 bags in 1907. The exports by comntries were:

| Comintry. | $190 \bar{\circ}$ | 1908. | Country: | 1907. | 190\%. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Germany | S7, 503, 6i6 | 81,592, 138 | France | 87,371. 170 | §2, 416,692 |
| Arsentine Repmbl | 370, 745 | 342, 610 | Great brita | 2,325, 464 | 134,206 |
| Austria-11ntgary | 95\%, 141 | 1,110,953 | Holland | 3,201, 224 | 3, 021,938 |
| Belyium | 9.109, 432 | 1,145,311 | Italy | 212.176 | 2206. $5 \times 9$ |
| ciniterl states | 11, 6i29,522 | 12,675, 105 | Other | +29, 712 | 4 65.016 |

The notable increase in the exports to the I'nited states, in spite of the general decrease in exports and the decreased imports from the Conited states, even greater than the decrease in general. is quite in keeping with the general commercial relations of the two comntries.

The total value of the fo eign commerce of the port of Santos diming the first six monthe of 1908 amomed to siat.998.071.27, of which $\$ 21,015.4$ - 5.31 were imports and $\$ 33.983 .092 .96$ exports.

Among the principal prodnets exported were 3.431 .144 bags of coffee: salted hides, rubber, and bran.

Vessels arrived to the number of Tinl. with a tomage of $1,00,460$. and departimes of $7+3$, with a tomage of $1,7,25.588$.

## THE TEXTILE INDUSTRY.

Figures recently pmblished by the "Iniario Oficial." of Brazil. indicate that substantially one-third of the entire industrial capital of the comentry is invered in cotton mills. while the total ammal ontput of the local mamfactories of all kinds is. less than the imports of foreign groods. While the proportion of the eommereial life of the commtry represented by industrial anterprises is very small. the actual increase in industries shown bey them is notable, and in some lines even remarkable. The "/Vierio oficial "gives as the total mumber of indlustrial enterprises now registered in Brazil (and none can operate withont being registered), together with the number of employees and finameial data, as follows:

| State. | Establishments. | Employees. | Capltal. | Annmal production. |
| :---: | :---: | :---: | :---: | :---: |
| Alagoas | 21 | 3,092 | S2, 010,900 | S2, 260, 800 |
| Amazonas | 7 | $3 \times 2$ | 512, 100 | 914,100 |
| Bahin | 72 | 9,9쓱 | 6, 66\% 2,500 | 7,458,600 |
| Ceara | 1 N | 1,207 | 1,055i,300 | 8 $\times 8,8000$ |
| Federal bistric | $5 \times 4$ | 30.494) | 12,583,000 | 61, 598, 700 |
| Expirito Santo. | 17 | 4. 90 | 3, $75 \times, 7600$ | 173,410 $2.178,900$ |
| Minas (itro | 551 | $8, \times 19$ | $7,453,400$ | 10,49,800 |
| Para | 20 | 1.411 | 2,394,900 | $3,573,300$ |
| Parahylm | 31 | 1,104 | 915,000 | 1,27, 2100 |
| larana. | 79 | 2. 467 | 3,618,900 | 4,532, 100 |
| Perrambireo | 9 | 11, 292 | 16, 28,3,400 | 10, 632, 000 |
| Kio (irande do Nor | 5 | $37 \%$ | 260, 400 | 327, 400 |
| Rio Grande do sul | 212 | 10, 490 | 11, 431,500 | 23, 456, 100 |
| Rio de Janeiro. | 190 | 11.719 | $25,033,200$ | 15, 896,100 |
| Santa Catharina | 125 | 1,642 | $2,181,000$ | 3, 093, 900 |
| Sáo Paulo | 323 | 23,007 | 31, 446, 600 | 35,213, 100 |
| Sergibe. | 21 | 1,563 | 1, (ixis, 100 | 1, 584, ti00 |
| Piailiy. | 3 | 35) | 402, 000 | 364, 500 |
| Total. | 2,292 | 123,9:31 | 162, 818, $=00$ | 1 $166,633,300$ |

[^5]



 the -maller and more common exablinhuents common to any eity.

 ments, embarang all millinery and similar phaces. paper-consmang establishments, printing oflices, antificial flower factories, and the like. sian I'anlo and lion (irambe centain meat and froit packinge extab)-

 in mearly all the states ench small exablishments ats mave reasonably be looked fore bat the only industive that in any measime approathes national importance is that of cotton mamfacturing. The mumber of cotton fiactories in the erveral states, with other datal relating thereto, is givern athe following:
stale.


| Mills. | Vimpluyers. | $\begin{aligned} & \text { C:upifal inn- } \\ & \text { volvedl. } \end{aligned}$ | $\begin{aligned} & \text { l'rulturtiun } \\ & \text { in } 1114 \cdot \mathrm{r} \text {. } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| 11. | $5: 3111$ | $517,100.11 \mathrm{~m}$ | 76, 005), 1410 |
| 1. | 13.104 | 10, M10, (1010 | 4i, 000, (0)0 |
| $\because 7$ | 7.0101 | 39, (100), (14.) | 40). (10), 1170 |
| 313 | 3, 210 | 3,280, (1)0 | 1S,01\%0, (100 |
| 1 | (iv) | 570, (6) 6 ) | \#3.16i 11.010 |
| 1 | : 1 (1) | 210 ( ${ }^{\text {cha }}$ ) | 1, 1i(1), (1)19) |
| 1 | .1:3 | 12, 2100 | $2,9(H),(M H)$ |
| $\because$ | (17) | 1,129, (141) | $4,3.20 .0019$ |
| 5 | $\because, ~!11010$ | 1,590, $14 \ldots 1$ | 22. $21+10,110$ |
| 11 | 1.1511 | 1, if 0,1811 | 29), (190), 1000 |
| 5 | 1. An) | 1.3:30, (1)11 | 1, $20(1,10110$ |
| 19 | 8. 630 | ! ! 5\%, (610 | 1. $\mathrm{CBC},(\mathrm{ClO}$ |
| 1 | : 2111 | . 017,1610 | 1. $3(15), 1610$ |
| 12 | 1.11 | 111.1410 |  |
| 3 | 2 | 13, 5 田 | ! 1. 310 |
| $\because$ | 9.a) | 1.711.0164 | 2.0930 .016 |
| $1: 77$ | 11.111\% |  | $251,119,460$ |

Of the total capital inveated in Brazilian industrial eatablishments. wer :3f per eont is represented by coton factories. In view of the fact that a lange momber of extablishments are included in the list of industrial concerns oriven, which in the [raited states wonld hatrolly be regarded as imhetrial, the actual pereentage of the ind astrial life of Brazil, acoording to Amerie:an stamdards. held lye the cotton industry, is much greater. The cotton mills of Brazil are murnextion-
 mess of any sort in the combterg. Practically all of them are increasing their ont pot and all of them are paying large dividents. Fatetories like the Industrial Mineira of Rio de Jameito the Mageense




MANGO TREES, BOTANICAL GARDEN, RIO DE JANEIRO, BRAZIL.



 ertien it forsersen.

On an arerage. Fxeptional factories like the Progreso of Rio de Jansion pay more, this factory paying abont $2 \underline{2}$ per cent on capital trebled in a few years ont of its eamings. something like fif pere cent on the original capital. Sheh figures are taken at ramem and are characteristic of the hasiness. The entom is to pry the director- of such bisinesest well and to carry large reerve funds. The entire busines of eotton mamfacture rests upon the exceedingly high tarill rates on cotton imports in Brazil, which hate leeen dinensed from time to time in reports from this comsnlate general. In general,


This spacina-arenue is one of many ralinting from the publice sutare of the same mame on the
 lishment of a kepuhlic the hame was changed to Praca da kepuhbica, the square greatly improved, and a syivem oi avenues e-mhlished, alt eomverring to it at a center. Although situated umber the equator, Belem is one of the most beantiml pheces of residence in morthern Brazil, the mean ammal temperature being about so ${ }^{\circ}$ Fabrenheit. Mring the hottest part of the day the eooling seal breaze is strongest.
owner- of industrial property in Brazil demand large returns upon their investments.

## SERICULTURE IN SÃO PAULO.

The Brazilian State of Não Panlo is reported to be making progress in the errowing of mullerey trees and the enlture of the silkwom.
samples of natiore silk of magnifiont textme have been exhibited at local fairs and the state govermment has offered prizes with a view (1) encombang the industry. A silk spiming and weaving mill has been operating successfully for some time at Villa Prudente in the
environs of the city of sino l'anlo. and the high protective duties impored faror the local derelopment of mericulture.

## RAILWAYS IN OPERATION AND UNDER CONSTRUCTION.

Aecording (o statistice of recent isone loy the brazilian Department of Pablie Works, the total length of railways in the Repmblic in
 Conder constraction were 3,312 kilometers, while plans had tren approved for the building of sisiso kiloneters more, making a total of $\because \overline{0}, 09$ 亿 kiloneters.

## PORT WORKS AT PERNAMBUCO.

The contract entered into between the (iovermment and Mesirs.
 provement works at the port of Pernambico was approved by Executive deeree of July $\because, 1!$ ons.

The worke comprise a breakwater to be comstracted on the line of reefs that form the port, 1.14 meters in length, and qutas: with 10 meters depth of water alongeide at low tide. 'The contractor- are
 the valne of the work to be done emimmanally mant be expivalent to onc-tenth of the total rahte of the contrate

The works will be paid according to echedule prices in brazilian
 -perial tan of 2 per cent gold levied on the ollicial valne of imports from forergen comatries in the state of Pernambero. as abow the net revemes of the port and docks themedres. The isone of bonds
 first is-ane immediately now the signing of the cont ract.
 equivalent. is remper of the contractors at the disposition of the Federal Treasme in Lomdon or ebswhere within sixty days of the date of the decrer amthomzing the eontract. in defanlt of which the contract is to be declared mull and roid.

## COLONIZATION IN SÃo PAULO.

The " Thiversal Cooperation Brotherhoocl." of San Francisco, Inited states of America, is in traty with the Siad Panlo state (iovermment for the pmedase of a large tract of land to be devoted to the fommeling of a large colony in the state.

Aecording to its president. Mr. Jons Amemers, the brotherhoor has ahrealy 1.600 members, the majority of whom aro scandinatians, Finns, and (xemans who are di-posed to leave the United States to
 work. ant whal right- whe protit-



 :ally comfort- 10 lead a pracefal life.

After the stipulated time of promal arrier hat herem eompletert
 :lllillill.



## THE STAIE OF BAHIA AND THE MINING INDUSTRY.

The state of Bahnat, which is hae richest of lamailian states in

 promaldgation of there deequtations the state (iovermment made liberal provision for the right- of tandownero, hat at the salle time frot vided the mex-and impetar for the exploitation of the mineral we-




 it- peribilition int there lines.


 value of thene artiolde- mined and experterl.

## JAPANESE COLONIZATION IN THE REPUBLIC.

The firet lot of Japane-o immigrant-arriving in larazil mater the










immigramt- are expected regularly matil the total will reach well into

 the formation of atonth Ameriann anociation with a very wide field of emterprive. the promere of which is the prometion of "ommer rial. indmatrial. and social intereome between Japan and the tiate of sonth Smerica.


## FOREIGN COMMERCE FIRST HALF OF 1908.

The foreige commeree of the lepallite of chile for the first half


 ('hilean resess of the imports and exports in detail:

| . Whimal sulsathere- | 8,607. . 519 |
| :---: | :---: |
|  | 11. 7 (10), $7: 3$ |
| Minteral smbstamers | 2-7, mat, 760 |
|  | :0, ¢ ו! |
|  | ㄹ.. |
|  | 1. 1110 \%, 17\% |
|  | 1. $7: 35.8 .7$ |
|  | $2.015 .18 \%$ |
|  |  |
| Arms. ammminitioll, alme explusives | 1.040.1:3: |
| Miscollallemos- | N(11\% ! ! \% |
|  | 1:3\% 171\%. 120 |

1: N1OHIN.







$115.1: 31 . \pi=1$
'Tha foregong fignen do not include the export- throngh Pimen Aremis.

## RECEIPTS AND EXPENDITURES FIRST HALF OF 1908.

The revenues of the Republic of Chile during the first half of 1908
 the expenditures for the same period amomited to $143.2 .83 .4 ., 1 .(6$.$) pesos$

 During the six monthes refermed to the receipts from chstom-honser, posts and telegraphs, mintage. treamion, ralways, and special entries



HOME OF THE MMERICAN ©ONSLLAR MCENT, MCNTA ARESMS, (IHLE.
lunta Arenas, the sonthermono city in the world, is situated on the manland of Sonth Amerien nearly midway betwern the Athatic and batotic oreans. lis importance as a port of call for resels passing through the Strait of Magellat is further enhane by serving ans distributing point for the sonthern lart of Chile. It is lighted by electrjeity and has public waterworks, two plazas, a hospital, two theaters, and several schorils

## SAVINGS BANK DEPOSITS FIRST HALF OF 1908.

On December 31. 1907, there were 174.791 persons with deposits in the savings banks of Chile, representing stio.oficiotit.in. while on June 30, 190S. the number of depositors had risen to 198.419 and the deposits to $\$ 22.876 .1+1.6$. or an increase dming the first six monthes of 1908 of 23.628 depositors and 2.9093 (i7.04 in the amome of the deposits. The following table shows the depositors and deposits in detail on December 31, 1907, and June 30, 1908:


## NATURAL GAS AND PETROLEUM DISCOVERED.

Petrolemm and natnral gats lan ve been discovered in the township of Carelmapu, in the Province of Llanquihne. Chile, abont 500 miles south of Valparaiso.

Enongh gas presimre has been secured to rmn a cook stove, a heating stove, and two gas jets at one time. Somudings lave been made to the depth of so0 feet with good results. It is proposed to pht down a well to the depth of 3,000 feet in order to determine what may be expected. This discovery is made in the vicints of a fairly rich goldmining district, and not very firl from the site of the extensive steel works being lnilt nean Corral.

## STOCK RAISING IN THE TERRITORY OF MAGELLAN.

The Territory of Magellan, Chile, the sonthermmost political division of the Repnblic, is an excellent field for stock breeding. This extensive Territory, comprising alont one-fonth of the total areal of Chile, contains, approximately, $48,000.000$ acres of land, and owes its present prosperity principally to sheep breeding and the working of its placer mines.

The climate of the Territory of Magellan varies greatly, being cold in the far sonth, and temperate and invigorating in its middle and northern zones. Parts of the Territory, epecially the sonthern portions, are heavily wooded, and the damp and limmid clinate of this part of Chile produces an abmodant, vigorous, and luxuriant vegetation, and canses the formation at some places on the coast of considerable deposits of turf. The sonthernmost points of Chile, with the exception of some dry lands near the frontier of the Argentine Republic, is unsuited for stock raising, but the sonthern, middle, and northern sections of the mainland of the 'Territory' of Magellan are well adapted to the raising of stock.
The breeding of sheep, which is now the largest and most prosperons industry of the Territory, dates back to 1876, when Governor Debié deafina bronght from the Falkland Islands the first consignment


 mixing in the Territory of Magellan, this industry was som (etah) lished on a firm footing. and has been increasing by leaps and bomeds from that date to the preant time.

In 1 sist the ( owermment conceived the plan of leasing to privath




 were dispoed of in this part of Chile to be need in the stoek-raining indastry. In $1!90$ a law was paced permitting the sale of (xovernment lands in the Territory of Magellan, and the first sale at pulblic


 heremes ( $4.3+1.000$ ances) and which weresold at public anction from $190+$ to 1906 , were disposed of at an areage of 7.27 peros. ( per hectane ( 2.418 areses).

It is extimated that there were 1.578 .309 head of sheep, $37.80+$ head
 groat: in the Territory of Magellan in 1907. The exports of wool

 pared with $\quad$, 4 ! 5,190 kilograms ( $16,000,000$ pomels), valued at
 hides hipped from somthern (hale in 1 gof went to Cerat Britain. Germany, and belgimm, the former combtre receiving aboni fomrfifthe of the entire ont put of thee two prodnats.
 ing are at prosent being exploited in the Territery of Magellan. In 190) there were sem tallow fatorie in the aforeait Territore hat-

 phant- in the Temitory. The one at Rio serohats a capital of 1..500.000


 (atablishment now in operation in the 'roritery. The capital invested
 calted moat. ame ham factoriow in the Ternitory.

The elimate is es mild and the temperature eo eren in the stockgrowing section of Magellan that the herds can remain day and night






 Chile when it is remembered that perome emgatige in thi- orenpation


 Magerlan. The Chilean lomere is a dememdant of the Andalusian beed.
 doing more work on lese food and with lase (ane than the Emoperan or Ancrican hores. Chikem cavalre homes are tanght to lie down at
 rithe. the animals remaining motionless matil after the firing is wer and rising again to their feet at the word of command. Becantor of
 service of the armies of motern times. In Chile a yomg hored of


 proved be the introchetion of tallions from England. Germany and France.

## SHOE AND LEATHER INDUSTRY.

'The manu facture of shoe in (hile he madnemery is increasing lapridly. I Shot time ago the firet sho factory employing madhemer

 lange proventage of the tho machinery in tre in Chile is from the Gobited states. France come next. followed loy Eagland.

There are still in the rombtry al later momber of shoe shope where from ten to a dozen men ate emploged making show bey hand. 'The


Practically all the chatere thoes worn in Chate are made in the
 Cally worn bex the working elas and famero. Shoes vetal at from
 native leather for dress shoe from se..50 to s.e. in. Then cone thome with imported mpers and mation soler. Whel is a very good shos. 'The upers will generally wear ont wo or there soles. Pom the sole leather is of an inforion quality. This grade of hoer reails at st to $\$ 1 . \pi$.

Shom were imported during the year 1907 to the valne of $\$ 120.609$,
 England. Ses, 617 for France and $\$ 17.218$ for (rermany.

## CONCEPCION TO TALCAHUANO ELECTRIC RAILWAY.

The electrice railway from Concepeion to 'Talcahnano. Chile, has been completed. and was opened to publie traflic in July of the present yeall.
 near the (iovermment of the Gated states, in repreentation of their reepertive combtries. signed, in the eity of Washington, a treaty of amity, commerce, and navigation, subject to approval in due form bey the (iovermmente of the conntries in interest. The treaty is signed in duplicate in Spanish. Japanere and English, and in case of differences of interpretation, the English text is to govern.

## MEASURES OF THE CONGRESS OF 1908.

The Colombian Congress adjomming in Angust has isued a statement relating that Colombia has adopted a treaty of friendship and commere with Japan, another with Switzerland, a commereial and industrial treaty with Great Britain, and a fiscal comvention with the Ifoly soe. There has been approved also a sanitary convention with the Cnited States, a customs tariff for the Repmblic, and a projeet that the mational assembly meet every twelve months.

## APPROVAL OF BOUNDARY TREATY BETWEEN COLOMBIA AND ECUADOR.

The additional convention to the boundary treaty between Colombia and Eenador of May -2 . 1908 , signed on Jnly $\because 1$ of that cear by the representatives of the two comntries, was approved on Angenst 14, 1008. ley the Congress of Colombia, and was duly promulgated by the President of the Republic on that date.

## NEW POLITICAL DIVISIONS.

A law promulgated on August 11. 190s-effective Jamary 1, 190:-abolishes the present political divisions of Colombia. and di-
vides the Republic into thirty-four Departments, each of which, when the law beeomes operative, must pay its revemes into the Federal Treasme. The law almoprovides for the distribntion of the property of the extinguished politieal entities among the monicipalities of the new Departments. The Federal District. in which the capital of the Republic is situated, is not afleeted by this law.

FOREIGN RELATIONS OF THE REPUBLIC, JULY, 1908.
 ter of Foreign Relations, to the National Congress asombled in Bogota, the Minister calls attention to the able manner in which Señor Don Exacte Comtes. Envoy Extraordinary and Minister


CHAMPAN ON THE MAGDALENA RIVER, COLOMBIA.
This craft is in use on the npper saghalena kiver. The champans sometimes travere the entire length of the Magdalem from lone , town tom milew inham, to harramailla, near the river's month. These boats are long and narrow, with a mmboo covering, eirenhrin form, atiorling proteetion from sma and rain. From 15 to 18 men are rednired to phsh one of these erafts against the stremm.

Plenipotentiary of Colombia near the Government of the United States in Wianington, has filled the delicate duties of his post, relating to many of the most important international questions of Colombia, by fostering and maintaining the most cordial and amicable relations between the Govermments of the two commeries. The report states that the Legation in Washington has instructions to endeavor to include in a new treaty to be negotiated with the United States. the most favorable conditions posible, in so far as concerns the interest of Colombia, with respect to traftie throngh the Panama Canal when that great artery of international trade is opened to the commeree of the world.

Mention is mate of the valuable cooperation of Mr. Elamu Root, secetary of state of the [aited states. in obtaining the retmrn to Colombia of the smm referred to in anticle 2 of the contract concerning the concemion for the opering of a camal thengh the Isthmes of I'anama, celdhated on Manch 20 . 1sis. betweren the Republic of Colombia and Mr. L. B. Wrse. The amome in question wats deposited in Lomdon, and netted the (iovermment of Colombias. after deducting the part cormeponding to the new canal eompange fel. 000 . The matmal spirit of sood will manifered by the representatives of both Govermments dhring the progrees of the negotiations is referred to bey the Minister of Foreign Relations in his report to the Congress.

Refering to the resolntions of the second and Third Pan-Ameriran Conferences, hedd in Mexico and hio do Janeiro, respectively, the Minister recommende the ratification by the Congress of the following conventions. signed by the delegates of Colombia at the Third International Conference of American States: On peemiary clam: : on extablishing the staths of maturalized citizens who again take up their residence in the comentry of their origin, and the convention relating to patents of invention, drawing- and industrial model., thade-marks. and literary amd artistic property.

The convention on international law, adopted by the Rio Conferener. hat been appowed by the Goverment of Colombia, and the latter. in conformity with the terms of that convention. intents: to sembla alelegate of the Republie to Rio de Janeiro on May 10, 1009, for the propose, in conjunction with the other delegates of the signatory powers, of forming a Code of International Smerican Law.

One of the revolntions of the Third Pan- American Conferemed held in Riod de Janeiro in 190f, recomments the appointment. be the re--pertive Govermments, of Pan-Ameriean committees, under the direetion of the Department of Foreign A fitars, and in areorlanere with this recommendation the (iovermment has appointed senor V'izetez Cobso, ex-Minister of Foreign Relations of the Republice and Int. [ mase [rase. one of the delegates of Colombia at the Third International Congrees of Ameriem States.

Referring to the International ['nion of American Repmblics, the Minister salys that-

The International lbueth of tho Americen Repmblics, which is to-day something more than a commission ehargen with sorvine as a permanent lomd between the meetings of the different Americall eonferemors anmestly devotes
 only in the arement of pasi conferemes. but also in the possible lathor of finture conferences.

## EXPORTS OF PRECIOUS METALS.

The precions metals exported from the I Department of Intionnia, Colombiar via Cartagena, in 1907, aggregated 7.301 kilogramis ( 16,095
pomeds), of which 2.081 kilograms consisted of gold bullion and tai kilograms of platimm, and the balance of silver and gold in other forms. The exports of precions metals throngh lanrancuilla during the same period agegreated fi,010 kilograms ( 13.22 .2 ponds). The values of these metals sent to the diflerent comentres were as follows:



## RAILWAYS OF THE REPUBLIC.

 esting report to the Congress of Colombia, mender date of July 20 , 190s. gives the following information concerning the railways of the leppulic:
 in suflicient quantity to meet the demands of tratice. It is under the direetion of the central lank, which looks after the serviere and attends to the peserva-
 revenne to the (iovermment.
 fember, 1ant, in aroordane with the confraet made with the Gevermment, it has berem mader the direction of an Eaglish company. Nowotiations are now under was looking to the salle of the road.
 in the hamds of the Cobombian Northom Latheng (Limited), an Emstish combatys hat vint ofleces in the caphat, and which has compled with the terms of
 tion of the Cobmuian (entral liallway (ompany (Limital). Work hats beron



Giadrat Ratarty.-'The dovermment has shown barticular interest in this
 neressity of this line to the material development ot the interion of the lidublice The roatd is in expoitation from dirardot to dal llospieto, and the line is being extemeded to faratativa. The eonstruetion company promises to complete the work to the latter pace lig the elese of the present veals.





 tember of that vear.

 Lailwas, so that in a short time it will be possible to travel leg tran from bogotil to a point on the Magelalema liver, amb from thener down that strem bug loat to the coast.
 that it will be completed to lapagayeros in berember, 10Ms, and to Cali on July : 0 (1, 1!10.
 bern eompleted. Doney is boing rased for floe construction of the line and

## 740 INTERNATIONAL BUREAL OF THE AMERICAN REPUBLICS.

 the milding of the road.

 rapidly as the avalable fomds will allows. lob to the present time the cowern-
 completion of the line to Medeltin ats simm as presible.
 Way aheady comstrmeted and the extemsion of the line to lort lamen, the ter-
 Lialway (ommbuy (Limited). which is an linglish eorporation. The section onen to tratlie is an miles lomg. The Gowemment is nowtiating with the eombamy fon the eonstrmetion of branch lines to difterent bathan phantations, and


ROAD TO SANTASDER, COLOMBIA.
smandare the capital oi the prowime of the same name is sitnated in the table-mads of colom-
 is maintained with surronmang eiticesad provinees by earavans of pack horess wheh follow the narrow Irifichlirning the extremely riggen enuntry.
is ableaboring to abtain the lowest freight mates possible for the transportation of that fionit.

Tundmut Railurall-Whe option on the railway contract mate by the govermment with 'romas (i. lamox in Femmary, 190t, expired in Ausust last.
 lave been in operation for several vears. have contimued to be expoited in accordathe with the varions contracts and comessions under which they were constrineterl. The preservation of the line of each of these rallways hats been properly attended to.

## COFFEE CULTURE IN THE REPUBLIC.

Coffee prodnction in Colombia averages abont ( 600,000 bags annually, of which 67 per cent is shipped to the United States. The
principal districts where its cultivation is carried on are: The bepartment of Cudinamarea. which proxlaces the remowned Bogota hrame ; the Department of santander in the ()emas, Cuchtat, and Bucaramanga distriets, and in the 'Tolimat and the smaller valleys of the Cordilleras.

Colombian coftees are known as " Bogota," " Bacarananga," " ("nuca," " Jerico," "Antioqnia-Merlillin," " Ocana," anl "simna Marta," the bulk of which are shipped muter the name of " bogata." The bem is variable in size and the roasted prodedet not wo bight as Gamemala, Mexiem, or Caracas eoflees. but the flavor is rich and delicions and blends well with that of other eatablished ratieties. In the region aromod Buearamanga, a wofee which nearly approaches Java and other East Indian varieties is grown and properly blended it is difficult to distingruish it from those lramels.

Bogrota and Bucaramanga are on the west slope of the eastern Cordilleras and Merlellin on the west slope of the central Cordilleras. the sections providing the proper climatic conditions for arowing fine coffers. In fact, the bean may be grown in almost all parts of the Republic where the temperature varien from abont $29^{\circ}$ to $77^{\circ} \mathrm{F}$. In the hotter climate, the bean is larger bint requires shading, while in colder regions a smaller hean is prodnced with less care.

Abont 2., 000 hags of Colombian coffee is retained for home consmmption, the remainder going to Emrope and the United states and commanding a constantly growing apprectation.

## MEDAL COMMEMORATIVE OF NATIONAL INDEPENDENCE.

The Congress of the Repmblic of Colombia has decereed the coining of a medal to commemorate the first centemial of the proclamation of the independence of the hepmblic, and has anthorized the l'resident to select the material of which it is to be made. preseribe its form, and the manner of distributing the same.

## INTERNAL REVENUE RECEIPTS IN 1907.

The internal revenue receipts of Colombia in 1907 aggregated



 rellaneons. \$17s.s09.01.

Duties on merehandise imported for the nes of industrial, railway. and mavigation companies, in aceordanere with their respective contracts and the laws in fore on the subject, were remitted in 1907 to the amount of $\$ 2.27 .213 .38$.

## CONDITION OF PUBLIC BUILDINGS.

The improvement of (obombian pullice Buildinge during President Revesis arministration hat been mont motable. In bogota the large





 Work hats been bergm on the repair of the (apitol, in aceorlance with the recommendations of at commis-aton of aggineres. The aredite of this edifier hats onbmited plans for the completion of the building. The old Military Itoppital hat been repaired amd turned into a hospital for the ins:ane. Other necessary repais: to meatly all of the principal adifier of the capitall hate been made and erperially to the



 graphing Building. Sin Francioco, Santo Domingo. tho (Qninta do

 inges ontside the rapital: 'The reeonstraction of the Burnaverntara


 quilla emstom-homer: preliminary work in the ronstrution of the Sinta Marta ('mstom-honse: barracks at Cali and Barranquilla, and mamy other Government Inilding* thronghont the Republic.

## ATTENDANCE AT THE PUBLIC SCHOOLS IN 1907 AND 1908.

The number of pupils attemding the pulblice selools of Colombia dur-
 for the same period in 1908 . For the purpose of improving the schools of the Republice, the Government proposes, in 1909, to send at commission aborod to investigate the edneational systems of foreign conntries, amb repectally concerning the organzation of primary schools, sehools of commeree, and miversities.

## EXPORT DUTY ON CATTLE.

For the propose of increasing the exports of cattle, and in complamere with the reguest of matuy petitions addressed to the Government of Colombia soliciting the reduction of the expert duties on that
important aticle of expertatom, the daty on male amimals experted was redneed, on June head on female animals exported remaining in force.

## VALUE OF SALT MINED IN 1907.

The erross value of the salt produced lye the salt mines of the Gor-


 compared with a met production of $5=20.3: 37.69$ from the same sonnce during the dirst half of 1 !ows.

## INTERNAL FLOATING DEBT, 1908.





 Repulatie on the date mentioned.

## SANITATION OF CARTAGENA.

Tho govermment of the Department of Cartagena. Colombia. has :1ppropriated $\$+2.60$ for the samitation of the city of ( 'artapena. The money berame available ou september 1, 190)s, at which time the work of anitation was commener hy the mmicipal anthorities.

## POSTAL AND TELEGRAPH SERVICE.

The (iovermment of Colombia hatememraged the betterment of the postal and telegraph service of the Repmble to suche a degree that during the last few years the mail servere has been greatly enlarged and inproved. and the telegraph system largely extemded thronghont the entice comatry.

The momber of pieces of foreign and domestic mail handled dur-
 of $+19, s s$ s. Danger the first half of 1908 the total mmber of pieces of math hatled in the Repmbla was $340.2+0$. consisting of $83 . \overline{6}(02$ pieces of foreign mail, and 30., wise pieces of domestic mail. or an inerease in 1908 of almost 100 per rent as compared with the mmber of piefes of mail matter lamdled in 190t. The comventions of the last Poxal Congres held in Rome have lreen ratified by Colombia, and a division has been extablished in the Department of Poste to carry ont the provisions of the same relating to the exchange of forcign mail with the Republic.

 1.sso kilometers ( 1.16 (is miles) of telegraph wires have been stmag. making the total extent of the teleoraph sixtem of (oolombia on July


The paid telegrams forwarded and received wer the telegraphers tem of the Republice of Colombia in 1900 numbered $\cong .0$ oss. $17 \%$, and
 franked of oflicial meseage hantled during the same perioni was
 and prodiced grom remeipts to the value of sis. 712.14 gold.

Wireles telegraphy is daily coming into more extended nose in Colombia. Succesfal wirelest experiment stations have been eatab lished on the Magdalena River at Mompos. Vati, and Buenavista. By means of the latter sation direet commmatation now exists between Bogota and Santa Marta. On the lower Magdalena River the witeles sotem is taking the place of the smblluvial cables. The Ingere wireles apparathes is being introdnced into the combtre and a solhool has been eatablished for the purpore of giving instructions in the nese of this instrment. An oflicial telegraph map of the Republic has been prepared, athe will som be ready for distribution.

## GOLD AND PLATINUM DREDGING IN THE QUITO RIVER.

The "licurio (oficial" of the Repullie of Colombia. in its issme of July 15, 190s. contains the full text of an inportant concersion granted bev the Colombian (iovernment to Antonio Olano anthorizing him to extract lọ dredging. or low any other process. gold, phatimm, or other metals fomed in the bed of the Quito River firm its conflaence with the Atrato River to the place where it is now or may be made navigalble for steam lanneles. The same privilege is granted with respect to the beds of the navigalde stremms of the alluente of the Quito River, as far as they are now havigale or may be mate batigable for stean lamehes, the coneesion not to interfere in either instance with tho rights of third parties. The concessionaine agrees to pay to the ( bermment in per rent of the value of the gross output of the gold, platimmen, and other precions metals fomm in the beds of the aforeatid rivers, this prament to be in lien of any expert tases on the metals which are subjed of this comtract. The is pere cont will be dedncted bey the ( boverment from the valne of the metals exported. the calenlations being mate on the London market prices prevailing two months before the metals are exported from Colombia.

## COAL AND OIL DEPOSITS.

United State Consinl Isate A. Manange of Cartagena, advises that recent reports from the Colombian reagions about the Gulf of

Iraba, between the rivers Jato and Leon, bring the news that valmable coal deposits have been diecovered there: aleo that a spring has been entomntered which flows abont a pint of ernde petrolenm per hour. Withont dombt this is an extemsion of the coal amd oil belt, heretofore known to exist, reaching from near Cartagena to the Valley of the sims River.

## COMMERCIAL STATISTICS FOR 1907.

Aceording to information furnished to his Home Govermment by the British Consml, Mr. F. N. Cox, the total foreign trade of the Republic of Costa Rica for the year 1907 agegregated $\$ 16,905.000$,
 compared with the preceding year, imports show an increase of 1.04 per cent and exports an increase of 3.30 per cent.


な. B .
Banamas form the most vahable export item, shipment of 10.1 (6.n.t.on bunches, valned at $\$ 1.864,000$, being reported, an increase of wer 50.000 bmehes as compared with 1906 . The next item in point of ralue was coflece of which 281,137 bags, with a weight of 16,320 metric tons, were sent aboad between October 1. 1900; and September 30,1907 , with a total valation of $\$ 3,419,000$. (rold and silver bullion ranks next in importance for \$asis.000. followed ly wood (prin(ipally vedar) and cacao to the amomen of ets metric tons, worth $\$ 9,000$. Other shipments comprise rnbber, hides, tortoise shell, mother-of-pearl, and specie.

In imports, the bulk of receipts is covered by general merchandise to the value of $\$ 0.6 \pm 2,000$, comprising textiles and articles of domestic
use mainly. Over ssit00.000 in reheduled for cattle imports, principally from Nicaragua. Ilomduras. and Venezmela.

The United States takes practically all of the bananas exported, figmeng for 7.030 .080 buncher, the remainder going to Great Britain. The latter country alooreceised nearly thres-fourthe of the coffee, the remaining fomrth being sent to the Vnited states and Gemmany in nearly egnal proportions, and France and other conntries receive inconsiderable shipments.

Thongh it is sated that the plains of Sarapiqui and San Carlos possess excellent rubber lands, hat small platations have been laid out, producing. however, notable wesults.

Cacao shipments nearly doubled in quantity as compared with 1906, and the fine prices realized have greatly stimulated ite culture.

The United states still leads other nations as a supplier of imports, farnishing $+4 .!9$ per cent, while (ireat britain and her colonies increased their exports to Costa Riea by o. (i, per cent. The SpanishAmerican Republics advanced their proportions of shipments from 1.62 per cent to 3.0 .2 per cent, mamle attributable to cattle. Foodstnff. railway material, and hardware form the bolk of V'nited States exports to the Republic.
 1906. France furnishing over :31 per cent: ( 3 ermany. 29.73; the United states, 19.71, and Great Britain. 13.87 per cent.

Pablic health statistics show a generally satisfactory condition for the year and the estimated pepulation at the close of $1!90$ was $3: 31.176$.

A pmotual weekly steamship serviee is maintamed between Limon and Manchester and a fortnightly one between Limon and Bristol for the tramsport of hanamas, and the Royal Mail Netem Packet ('ompany rums a monthly eargo stemer to Limon. Other lines calling regnlarly at Limon are the Ilamburg. American Steamship) ('ompany, weekly, with the Atlas service to New Vork and monthly boats for
 (French), amd a monthly service from both spain and laly. 'The banama steamers of the U Wited Fruit Company sat from Limon three times a week bomed for Boston. Mobile. New Orleans. and Philadelphia. At Panta Arenas the Pacific Mail steamship Company (alls thee times a month on the vorage from San Francisco to lanama, and thrice monthly on the retmen vorages, while the Fosmos liners call once a month on their sontherly vogage from san Francisco. Total tomange of ressels entering limon during 190 ageregated 909.00s, the number of vessels, being 609. hoth sail and steam, while clearances are reported of (610) vesiels. with a total of ! 915.9ss $\frac{1}{2}$ tons.
 being reported cleared dhring the year.

The Northern Railway Company of lboston, managers of the Costa Rica Railway Companys lines under a working agreement, have extended varions branch lines for the service of the banama industry and have carried ont important improvements, notalby the remorleling of the limon freight yard and varions sectional developments. The rolling stock hats also been inereased by seren new $\overline{6}$-ton engines and 200 freight cans.

The mileage of open lines on these railways, whose terminus is Limon, is as follows: Costa Rica Ralway, main line, 137.47 miles: braneles and sidings. 6:3.36 miles: Nothern Railway, main line, 43.4 s miles: branches and sidings, 87.34 miles.
On the I Pacific Railway construction work has been carried to Lass Ituacas, a point 11 miles beyond Santo Domingo de San Mateo in the direction of Panta Arenas. and an anthoritative survey has been completed of the comntry which has to be erosised in order to comnect the Pacitic Railway, mming from אan José to Las llameas, with the Phata Arenas-Esparta line. The distance between the two milways. measined along the ronte adopted, is abont 11 miles and the estimatex cost for eompleting the constraction is abont $\$(000,000$.

The Abangares Mining Company, the Lisperanza, and the Colbomm mine have been in operation thronghont the year. and development work is proceeding at the Montemma mine in the Barranca district. and at Machaca and $\backslash$ genacate mines in the $\Lambda$ gemate district.

The service of the extermal debt remained stationary dhring the vear and the intemal debt increased be s.at.000, amomenting on Mard

 9.191.449 colowes ( 4.398 .000 ), the deficit being occasioned by suth extrordinary expenses as were cansed by railway eonstruction, construction of publice buildings. and the extablishment of the liquor monopoly by the (iovermment.

## BUDGET FOR 1908-9.

The Congress of the Repmblie of Costa Rica has fixed the expenses of the Government for the fincal year $1908-9$ at $7.3 .59,003.93$ retomes (s.3.4.8.730). To cover these expenses, the revemes from all sonres,
 as follows: From chstoms dhties. 4 diano.000: from consular fees, 120.000: from liquors, 1.850,000: from sealed paper, so.000: from tamps. 85,000: from Government lands. 15,000: from the Pacific Railway, 300.000 : from posts and telegraphe, 300.000 : from Government Printing Office. . 5 o,000: from public registrations, 35,000. and from simdry other somrees. 150.000.

## SURCHARGE ON IMPORT DUTIES.

The British Comsul in Costa Rica has reported to his Itome (iovermment that the fees charged aborod for Cowa Rican ronsmlar in-
 the amomet of import duty levied on merehandise. and is collected by the cistom-hones of the Repullice.

## REGULATION OF CATTLE AND FEED DUTIES.

The ( (overmment of Corta Rical hats dereed that on and after September 15, 1!0s, all cattle imported into the leppublice with the exception of sleek or fat eattle, shall be free of duty. sleek or fat


In futme the state will pay wo bomty on cows or heifers bronght into the Repmblic. Snt matil December, 1911. the Government of Costa Rica will pay the manitime freight to Cowta Rica, and land freight in the Repulitic, on blooded cattle, male or female, bronght from Emrope or the ['nited States.

Work oxem imported. wen thongh they are fat or sleek, are not smbject to import duties, but work oxen exported are subject to a daty of 10 colones (

Blooded cattle exported are subject to a duty of $2 \boldsymbol{2}$ coloues (\$11.62) per head, but if the blooded animal was bronght into the commtry and the freight on the same was paid by the Government, the exporter shall retmen the amonnt of said freight to the Govermment.

The free admission of foreign grains, in areordanere with deeree of November 26, 1902, and the lop-prodnets of gratins referred to in artiele 3 of the law of $A$ ngust $\because 0,1903$, is made applicable to hay in balles.

The law of Angust 1, 1900, articles $1, \underline{2}$, and $t$ of the law of Angnst - $0.190 \%$, the law of July $\because 8,1!04$, and the rule and regnlations of september 10 of the same year. have been repealed.


FOREIGN COMMERCE, 1907-8.
Fignres compiled by the Statistical Barean of the Culban Government report total imports by the Republic during the fiscal year $1907-8$ at $\$ 96.993 .13+$ and exports at $\$ 07.449 .917$ a total trade value of $\$ 194.4+3,0 \div 1$ being thens indieated. For the preceding fiscal year $1906-\bar{i}$. imports and exports figured for $\$ 96.668 .859$ and $\$ 110.66+.937$, respectively.


COLUMBUS PARK, HAVANA, CUBA.


The value fomished amd received by the rations combtrese engraged in commere with (ybla for the two perionlo muder comparion were ar follow:

| (ombtrios. | Imports. |  | Expurts. |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 190\%-s. | 194\%-\%. | 1!07\%-s. | 190\%-8. |
| Uniterl stater. | S $16.470,368$ | Str, 192, (6\%) | 681, 3:35, 327 | S9\%, 141,012 |
| Other North mblsumth . ${ }_{\text {an }}$ | 8,316, 912 | 9, $2000,26 \%$ | $\cdots, 726,016$ | 2, 211,501 |
| Gernminy | 7,762, 751 | 6, 433, 968 | 3. 734,394 | 3,130,737 |
| Spain... | $8.316,910$ | $8, \cdots 6,973$ | 1,006, 029 | 413,305 |
| Frnine | 5, 人54, 474 | 5, 2 Al , bios | 1,93\%, 4.2 | 1,002, 3 : 21 |
| Conited Kingrlons | 14, 30.912 | 13, (i3:3, 130 | 5, 143,581 | $4,416,2 \pm 3$ |
| Other Eurome. | 3,52s, 5*0 | 3, 434, 555 | Nis. 179 | S21, 6i\% |
| ()ther conintrie | 1.163, 768 | 1,394, 396 | (692,9x1 | 59\%,135 |



Specide import: for 1907-8 are reported ans \$1.83:5, 88 against



## CONTRACT FOR THE CIENFUEGOS WATERWORKS.

The amended eontract entered into between the Cuban (bovermment and the Reilly Company on Angnst 10. 190s. for the building of the Cienfuges waterworks, fixes the date of completion of the system at two years from the date of the contrade
(iovermment supervision of the work is provided for and the Department of lablic Work- is anthorized to make the neressary leases. purchasen, and condemmation- of private property for the construction. maintenance and operation of the same.

Authority is given for the use of public highway: for the neeres sities of the undertaking and for the utilization of the I Amabanilla

River. The Secretary of Pablic Worls- is anthorized to inchade in the eontract water and sewer connections with private honses at the expense of the property owners.

Bonds of the city of Cienfuegos are to be acepted by the Government for the reimbinsement of three-fourths of the cost of the works. the remainder of the expenditure being provided for by certain pecified collections of rentals and charges.

## CUSTOMS MODIFICATIONS.

 of Cubat amending the costoms tarifl provides that article 286 of the contoms tariff in foree be amended as follows:
(offere chicory roots, mind chicory-

Circular No. t!), of June :3, 1908, aseseng with duty zine plater for protecting stemmship boilers, states that zine plates with a hole in the center only to be ned for protecting steam:hip boilers, shall not be regarded as acessory parts of boilers and shall be elased in tariff No. $\because 204$ and not in No. $74 f$.

DOMINICAN REPUBLIC
)

## DRAFT OF NEW CONSTITUTION.

The "Gercete Oficial" of the Dominicen Repmblic. in its issmes of Angust 15 and 19. 1908, contains the fall text of the proposed new Constitntion which was summitted to the consideration of the Congress on December 18, 1907. 'The Constitntion now in force after hatwing been revised by the Lecgislatme of the lominican lepublic in 180\%, was promulgated by the President on June 20 of the same year.


MESSAGE OF THE PRESIDENT.
 mesange to the National Congress of Edatho at its regular sersion in Quito. stating that the (iovermment had taken epecial pains to cultivate. strengthen, and extend the cordial relations of the lepublie now obtaining with other powers, and calling attention to the fact that the strongent ties of friemdehip and enod will contime to exist between Eenador and the combtries of Emope and Ameriea. Ite referred to the satisfactory serviee remered abroad by the able diehomatic corps of the Repulbic, and sated that he had cooperated in every way posible to the end that the arbital award of the bomdary frestion with Pern be pronomued ly the King of span at the earliest date practicable. The Irmesdent expresed the belief that the bomdary diepute with Colombia would be settled byy the amicable and direed negotiations of the two Republices, and informed the Congrese that a treaty relating to that suljeect would be sulmitted for consideration by the Minister of Foreign Relations. l'resident Ahrano expresed his sympathe with the plan of confederation with Colombia, so strongly and ably adrocated by President Raves in a recent messige to the Congress of Colombia.

The revemen of the Repmblic for the fiscal year 1907 were 12.6 - - ,


 operating expenses of the Government were, however, in 190 $\overline{7}$, only

 on aceount of the Southern Railway.

The receipts from matitime and land constom-honses for the fiscal

 ceipts of the former year over those of the latter of $1,670,321.3 \%$ surves ( $\$ 835.160 .67$ ), due largely to the increased facilities of the railways for the hamdliner of traffic.

The revennes from salt in 1907 amomed to $490,413.19$ surves



 as companed with e.it, $161.1+$ suches ( $\$ 12 \overline{6} .080 .50$ ) in 190.5 , or an excess in the receipts of the former over those of the latter year of e.s.0.091.06 sucres (

In order to meet the deficit for the fiscal year 1907 , a loan of


Concerning the railway from (ampacuil to Quito, the President surs:
The 'Trams-andime lailway--the surest fommation for the promess of the mation-has at last arriven at Quito. The camest wishes of a patriotic perple and my most fervent desimes have heron realized, but this gigante mudertaking has cost us immmerable saterifes, fasmurh as the govermment has had to wereme many ditlientias in order to prevent our hopes from being shattered
 message, an acemme in detail of this trmly regomating work-a work we can mot how appreciate in all its matminde. All that was presible and neressary to do to crown with sucess such a groat madertaking has been done, and the efforts and salorities of the administration have received the appowal of the whole nation.

On Augnst (i, 1008, preliminary work was begun on the railway from Inaigra to Cuenca, and the contractor promises to have trains rmming into the rich mining and agricultural districts of sonthern Edmador within the next twenty-eight months. Construction on the railway from Bahia to Quito will soon be commenced. The President adrocates the extension of the Gnayaquil and Quito Railway to Ibarra and Tulean, thas placing the principal port of the Republic in rapid commmieation with the rich and fertile Provinces of Imbabora and Carchi. The buikling of the proposed railway to Curaray is likewise recommended.

There has been a notable improvement in the publice sehool systent of the nation, and the modern methods adopted have produced satisfactory results. The establishment of seientific and industrial sehools, and especially of an agricultural college. is eamestly recommended.

In regard to colonization and immigration, the Execontive farors liberal laws, such as will eneonrage the coming of immigrants. becanse it is throngh proper immigration that new nations develop and reach the pinnacle of their wealth and greatness.

The (rovermment will celebrate the hamdredth anniversary of its independence by holding a National Exposition in (2nito in honor of the politieal heroes of the emancipation period of the conntrys history, in which a number of nations have already decided to participate.

The Exechtive calls attention to the needs of the charitable institheions of the comintry and earnestly recommends them to the faroralble consideration of the Congrest. As a means of obtaining funds
the fresdent sugge-ts that lamds held in mortmain be leased or administered by the State. and that the proceeds thereof be applied to the mantenature of elemominary institntions.

## INDUSTRIES OF THE DEPARTMENT OF GUAYAS.

An interesting report of the (iovernor of the bepartment of Gayats to the Miniter of the luteriar of the lepmblie of Eemador :alls that the domestic indu-tries of that bepartment, the capital of which is (imayaquil. continne to increase and develop in at sativactory manner, int rexommends. in order to stimulate and angment the home industries of the Department and of the Repmblic to a still greater de-



PLNEAPILLE PLANTATION IN ECUAIOOR,

fertive mamer by -afliciently potecting the domestic mannfacturers of the combtry against the competition of foreign mamfacturers engraged in producing the same class of articles. According to the report referred to, the principal industries of Guryaquil that have been established for a long time cover such important articles of eonsmmption as vermicelli. chocolate, biscnits, beer, ice, soap, camelles. liguor, ete., while the newer industries comsist in the manfacture of bagr, wafers, coton fabrics, mosaics, and a well-equipped timnery. The mamfacture of matches has been particnlarly suceessful in the Republic, and the quality and price of this product compare most
favorably with matches of foreigh manimeture. The report epefatly recommends all domentic industries that have to import raw materials for the mannfacture of the fini-hed produet to the consid(ration and protertion of the Fealeral (iovermment. and shagent the
 regn anticlen coming in competition with merchandiee mannufactured therefiom.

## PUBLIC INSTRUCTION IN THE REPUBLIC.

The value attached by the Guatemalan Govermment to public instruction has been amply : mpported by the present l'resident. M.ntera Estraba Cabreba. The higher edncational institutions are ertabli-hed at (inatemala City and Quezaltenamgo and inchade schools of law, medicine, surgery. dontistry, pharmacy, and commerce. These sehook, particularly that of medicine. mender the anspices of which the l'an-American Medical Congress was recently held, enjoy a high repnataion in all Latin Anerica and attract many sudents from neighboring republice. There are also night sehools for antisans and workmen. the pupils of which are exempt from military service.

The secondary comrse of instruction, establi-hed at (inatemalal City, Quezaltenamgo, and Chiquimula, is muder the direction of belgian profesors, as is one of the nommal schools. The United states has aboo contributed an eflicient corps of men and women teachers, and no expenditure has been spared to make the conse of study practical and thorongh. 'The Minister of Instruction has as secial portfolio in the President's Cabinet, and many Guatemalan youths are edncated abroad at Govermment expense.

The country maintains a mational conservatory of music and a school of fine arts. in both of which the instructors are largely Emropean and American artists, while the Govermment especially encourages the mannal and mechanical arts. One of the features of the entertainments of the Pan-American Medical Congress was a fine prodnction of the opera ". Aida" on a high plane of artistic merit.

The school year ends with October with appropriate festivition held in the beantiful "Temple of Minerva." constructed for the celebration of seientific and scholastic ceremonials.

R.AILWAY STATION, HORT AU PRINCE, HAIT1,

Port an l'rince is connected by rail with l'Etang-sammatre and lake Asuci. A railway is also ander constriction between the city and Gonaives. Other lines bnilding will join the capital with Cape llaitien and lerrin.

## COMMERCIAL CONVENTION WITH GERMANY.

The Itaitian and German Goverments, desirons of increasing the trade relations between the two comentries, have conchuded a commercial convention which was signed July 29. 1908, and promnlgated August 2.5, 1908.
According to this convention the following IIaitian products will, upon their importation into Germany, pay the minimum cuntoms duties: Cabinet and dye woods, cacao. cottee, was. and honey. while the following German prodncts imported into Itaiti will enjog a reduction of 2.) per cent on all the principal duties and on those collected for docking, weighing, visé, as well as on the surtax of 50 and $33!$ per cent inscribed in the Itaitian minimum tariff: Stockings; and socks of all kinds and grades, matches, tin and enameled ware, cement. rope, faisuce, and twine.

FOREIGN COMMERCE. 1907-8.
Fignres issned by the statistical bivision of the Treasmry Department of the Mexican Govermment place the total valne of the

 (s.20.103, 000 gold) in the preceding yeat:





A deeline is thas indieated in the later period in both branchen



On the import liet, the only item for which a notable increate is dited is chassified mader textiles and mamafactures thereof, in which
 While minerals and metals as a whole doreaned in innowt valne log
 irom and steel for building and indenstrial pmones. showed an ad-



 shber (




The balanee of trade in faver of the liepmblice as imdicatced bey the execs of exports ower importa in which is a farorable showing as compared with the preceding fiseal year. When the trade balaner figured for shaiss.tise silver ( $\mathrm{S}-\mathrm{F} .84 .200$ ).

The business crisis which ocemred diming the year natmally af. fected the demand for raw materials aborad. and as this clase forms the bulk of Mexicm exports the explanation of the deeline in the -hipment of national prodnets is fumished. It the same time fewer sales nece-sitate fewer purchates on the part of the prodncer. so that

$$
\text { Kinoi-liull. 4, lit } 1-05-10
$$

## 758

in the eronomic consideration of the matter the reares report $i$-. in the main, fatomal) to Mexieos commereial staths.

A lowering of the price of some of the commodities exported accomits in sonte degree for the decline in export valnes, thans henedren was really hipped in larger phantity during the vear 190--8 than in 190ti-7. Dut a derline in price caned a correponding dectine in valnation to the amonnt of w.t.20.90. silver (s.2.210.400). In addition to the coflee and rubber increase noted above tobaceo shipments show an increased valuation of site. 911 silver ( native products. such as cotton, wheat, rice. corn. and beans. were sul)ject to greater domestic demand. thans necessitating a cutting off of export-.
1.1PORTs.
| Silver valuttion, 1

| Artioler. | 1997-8. | 190\%-i. |
| :---: | :---: | :---: |
| Animal subtancer: Live animal-. | $\begin{gathered} P(3) s \\ 2,364,413.3 \mathrm{~s} \end{gathered}$ | It cose <br> 3, $\times \mathbf{3} 3,71.05$ |
| Br-promlucts of animal- |  |  |
| Found. | 369, 319.04 | 383, 112.62 |
| ludiririal. | 1.246.614.26, | 1, 114.467 .24 |
| Medicimal. | 16, 31515.42 | 4.704.42 |
|  | 1,732.245.72 | 1. 5 \% 91 , 5\%4. 25 |
| Animal proclucts- |  |  |
| Fixиi...................................................... 6, 60.08 .388 .16 . $6.376,011.66$ |  |  |
|  |  |  |
|  |  |  |
|  | 7,162, 580.64 | 7,391, 340. 46 |
| Mammacturedarticles- |  |  |
|  | 1,910,993, \% 5 | 1,999, 057.332 |
|  |  |  |
|  |  |  |
|  | 6, 106, 369.2m | 6. $1482 \times 2 \times 89.94$ |
| Total amimal prownets | 17, 2tis, 792.122 |  |
| Vepetable proxacts: |  |  |
| Textile tilker- |  | 1, Aint, otis. ${ }^{\text {a }}$ |
| Fruits numl grimin- |  |  |
| Forel. | 5, 994, 335. 66 | 9,541,536. 76 |
| Mcelicinal. | 12, 6in5. 51 | 13, 754.46 |
| Live plants aniol | 24,028 | -63. 17.26 .32 |
|  | 6\%,304,346.98 | $9,832,4179.99$ |
| Smindry vegetable substanees | 1, (446, 52, 4.48 | $2,(065) .450 .04$ |
| Miserellateons segetable products- |  |  |
|  | 2, 211, 736.89 | 1,903. 920.28 |
| Werlicinal | $\begin{aligned} & 24,8 v 0.78 \\ & 3, \text { tik } 6, \text { 609. } 68 \end{aligned}$ | $\begin{aligned} & 223,37.05 \\ & 2, \times 5, \times 24.09 \end{aligned}$ |
|  | 6, 166, 2.26 .55 | 4.973, 176.42 |
| Whorls. | 7,2then, 518.30 | 6,912, 745.91 |
| Mamufactures of vegetable substances- |  |  |
| Of lumber. | 564, 619.03 | 523, 491.76 |
|  | 2, 120, 378, 13 | 1,916.933. 48 |
|  | 2, 202, 2246.83 | 2, 0166 , 742.51 |
| Furniture $\begin{aligned} & \text { Of } \\ & \text { Ondry } \\ & \text { vegetable }\end{aligned}$ | 2,330, 4.49 .33 | 2. 108.2080 |
|  | T, T 22T, 103.332 | 6.5.545, 437.45 |
| Total vegetable substances | 30, 631, 463, 115 | 31.75, 861.60 |



[^6]1.M1'ollits continued.


IM1PoRTS-Continued.

| Ariteles. | 1907-s. | 190\%-\%. |
| :---: | :---: | :---: |
| Chemical ami pharmacentionl products | Proms. <br> $10,350,904,51$ | $\begin{aligned} & \text { I'esos. } \\ & 9.41: 3,002.93 \end{aligned}$ |
| -pirituons. fermented, and matural heverage | 7. $1633,9300.41$ | 7, 2946, 23i4. 31 |
|  |  |  |
| Wasternd poly for paper mannfacture. | 922,125.75 | $1,046 i, 230.31$ |
| paper and 'ardhomal | 1.211,010,73 | $1,215.271 .78$ |
| Datmfactured paqer.. | 1, fi42, $736, \kappa$ к <br> -3.310. 9ti) 60 | $1,51,59.82$ |
| Artictes mate of paper |  |  |
| Total puper and paper products | fi, 1 fti, \ggitio.02 | ti, 012, 467. 39 |
| Machinery and appmatos |  |  |
| Probles | $7.356,060 \text {, } 1 \overline{7}$ | $9,1413,3 \leq 4.21$ |
| Srmand explosive | $3,15.00,313,77$ $10,170,110,03$ | 3. $417,802.89$ |
| Miscellameors. | 10, 175, 110, 03, | 9, $32202,32.31$ |
| Total imports | 221, 535, 4013, 32 |  |

Countries of origin for imports were as follow:

|  | Countries. | 1907-8. | 1906\%- |
| :---: | :---: | :---: | :---: |
| Giermany | fi-mopes. | Pexos. <br> 24.347, tiki. 78 | $\begin{aligned} & p_{1}^{2} \times 1 \text { N: } \\ & 21,0316,924,13 \end{aligned}$ |
| dintriat-llimgary |  | 1.626, tinl. 19 | 1,315, 15\%...s |
| Brlarimm....... |  | 3. $2377,5 \% 1.31$ | 3, 127.6301.92 |
| Spain |  | 7,609, 92 4.55 | 7, 037,974. 31 |
| Frathee |  | 19,946, 727.16 | 17.317.613. 73 |
| (ireat liritails |  | 32, $870,327.42$ |  |
| Holhand |  | $579,1 \times 2.67$ | 56\%3. 724.03 |
| Itals. |  | 1,922, 2tss. 3 s | 1,761. 179.19 |
| Хorway |  | $33^{2}-2,26.70$ | 35is, inctix |
| I'urtugal |  | $142,10.42$ | 306, 56in. 08 |
| linsiat |  | 407, 707.64 | 22s, $2 \times 2.71$ |
| sworlen |  | $5 \times 1.161 .04$ | $571,4 i 2.37$ |
| swizerland |  | 1,410,391. | 94, $0,873.24$ |
| )ther countries. |  | 91, 205, 72 | 119. W26. 0 S |
|  |  | 90, 710, 297, 81 | N2, 194, [4-5.81 |
|  | As1.1. |  |  |
| Clinam..... |  | 1, $2321,470.019 .57$ |  |
| Japath.... |  | 1,020,983. ${ }^{2}$ | 1. $157,53.36 .90$ |
| bither commin |  | 5s, 51.71 | 71.549 .54 |
|  |  | $2,264,040.11$ | $2.211 .017 . \times 6$ |
| Erypt |  | 21.2 8.91.01 | 904, 650.07 |
| Wher comitries |  | 12, 7\%) 26 | 26, 547, 3 |
|  |  | $225,6060.27$ | 2.3ti, 197.90 |
|  | Hitu AmERH |  |  |
| (amman ${ }^{\text {chio. }}$ |  | s17, 5in. 18 <br> 117. 235, 14. 144 | $417,156.6$ <br> 16 |
|  |  | 118, 0552.741 .07 |  |
|  | Stral amer |  |  |
| Guatemala |  | 9.346.98 |  |
| Ihonduras. |  | 17,915. 19 |  |
| 1) ther comntries |  | 88, 175. 18 | 16.680. 35 |
|  |  | $115,473.35$ | 39, 3i\%3. 79 |
|  | H'TH AMERIC |  |  |
| Brazil |  | 11,970.03 | 9,013. 38 |
| Colombint |  | $33,649.64$ | 16, 405. 00 |
| Chile. |  | к, 139.50 | 160, 831.79 |
| Ecimator |  | 14.451 .62 | 95,976. $3 \times$ |
| Panama. | . | 12.97 | 700.00 |


| （romutrics． | 191\％ー． | 1：0i－7． |
| :---: | :---: | :---: |
| sotth amenher－amatimed． | Itats． | Prsin． |
| P＇ern | 14i，\％6－3i | $15.16 .13$ |
| Arsentine liopublic． | 349 62\％ 010 | 19．306，隹 |
| Ventzhelar ．．．．．．．． | $17,31-10$ | 2h，－11．做 |
| Other combtries．．． | 1．710．90 | 6．3．33． 3 |
|  | （6i5）， 213.50 | 34：3， 5336.70 |
|  |  |  |
| （：ula | 1536，946， 71 | 175，562． 5 |
| Other commers | 5，971．74 | 9．940．91 |
|  | 112.918 .53 | 15\％．16．3．34 |
| 0．T．ans． |  |  |
| Australia | 300，3－5，2m | （ia）仿1． 36 |
| Other comintries． | ：38，354． 110 | 35.4 Witio．th |
|  |  | 103．947， 36 |
| Europe | 99， 119,297 | N2，191．4in Al |
| Asia．．． | $20 \% 60.170 .11$ | $-2,211.017 .01$ |
| Africa |  | $23 t, 197.90$ |
| Curth Anmrioz．． | 118， 050.711 .07 | 146， 816.015 |
| sunth Amerjon． |  | 3－3， 3 36， 70 |
| West lndies．． | 112，915． 53 |  |
| Oecania．．． | 3350，730．24 | 103．917．84 |
|  | $294.535,4433.32$ | 232，2r90， 575.68 |

ジズいだル。

| Articles． | 1！6゙にち． | 1900－7． |
| :---: | :---: | :---: |
| Mineral prodnct－ Gold coin，tlexicm | Preos． |  |
| fink com，foreigri． | 5，046，593．54 | 10．0．0．00 |
| tiold in lurs． | 23，097，909．34 | 18， 4 H5， 616.16 |
| fiold in other forms | 3． 776.816 .39 | $4.922 \times .007 .54$ |
| Total gold． | 31，921， 119.27 | $23.873,713.94$ |
| Silver coin，Dlexiram | 10，671，274．00 | $24,521.421 .04$ |
| silver coin，foreigh | $16.9,037.00$ | $161, * 29.10$ |
| Silver in far＊ | 69．173， 111.04 | $6 \text { 6, } 191,2 \mathrm{~L}, 1 \mathrm{~s}$ |
| ：ilverin otherform－ | $13,122,3: 38,54$ |  |
| Total silver | 93， $03.4 .4,70.80$ | 99，881， 790.06 |
| Total silver and gold | 124，25，769．75 | 123， 733 s ，504．（0） |
| Antimony | 1． 699 ，1si．（k） | $1,12, \pm 21,00$ |
| Copper．．．．．．．．．．．． | $\begin{array}{r} 24 . \times 34,04 \times .11 \\ 346 .(123.06) \end{array}$ | $2 x, 7 \times 2 \times 20$ |
| Plamdagho． | 61，37i． 40 | 1：34．33i－，00 |
| Lead． | 5，311， 5 21． 56 | 3，644，738． 56 |
| Zinle | 884．14． 10 | 2，010． 1118.12 |
| Other minurals | 616，115． 3 | 419，014． 11 |
| Total minerals． | 158．430， 125.37 | 140， $2410,004,10$ |
| Vegetable products： |  |  |
| Cotton，raw（entrorra）． | 41.312 .00 | 505.154 .00 |
| Cotton，raw（＊）rama） | 1，－\％．1：Mi． 00 | 3， $62505,325.60$ |
| Cottom，uncleatral | 13．746． 7.5 | 169，inis． 00 |
| Coffee． |  | 7，23\％，5！？ 31 |
| Cosablote smal taming hark | $13,061.09$ $\times$ | 8．269．00 |
| Robther <br> chicle． | $8.401 .+84.30$ | 6，67－92960 |
| Oil of aboers | $-2016,72.00$ | 2，14． 97.21 .0610 |
| Beans． | $548,183.00$ | 862．695．00 |
| Fresh | $3 \sim 5.899 .08$ | 3329，940．is |
| leas | 3.118 .550 | $4,004,521.00$ |
| Gingynle | 1，252， 634.00 | （11．23－20） 00 |
| Horve beanco | 1．96\％．00 | 2，550．00 |
| Henequill | 2\％，019，310．0t | 31．440， 24.76 |
| Wxter | $\cdots$ | $3,813.176 .00$ |
| Шоня＊． | $2,159,715.14$ | 2，169，768，50 |

## EXPORT:-Acontinued.

| Arlieles. | 190\%-s. | 1914-7. |
| :---: | :---: | :---: |
| Veredable proklucts- Continuerl. <br> ('ortI. | ITM6S. <br> 6, 31li, 11 | Pexow. $\cdots, n i n, \times 0$ |
| Nulberry loge | 83, 2411.141 | 91. 725 |
| tyeworels. | $633,194.110$ | 739.810 .12 |
| Fiombler... | 39, 804.71 | 23.7.93\% (4) |
| Bresill rewt | 2,317, 6991, (k) | 1, $\times 1,217$. (k) |
| Lexai mbares | $2,437,742.83$ | 1, $114,30.35$ |
| Vontila | 1,911,061.010 | 2, bite |
| Sarvipurilha. | İ, 14is.00 | 121.5120 .00 |
|  | 1. $457,227.40$ | M13). $17 \%$ |
| Total vegenthle prownets | 70.1*), 9x | 71, 510.374 .51 |
| Animat proclucts: |  |  |
| 11192......... | 101, ¢1. 40 | 96, 1-1, 00 |
| Horns: | 13, 150).00 | 59, 2iss. (1) |
| (:nttle | $2,237,115.00$ | 1, 500.30 .00 |
| Вони" | 43, 023.00 | 11, 7:1.00 |
| Ilomey | 159, 393. 6i. | 113, 121. ${ }^{\text {cix }}$ |
| Inried flies -...... |  |  |
| Whuranimal jren | , 271, 537.75 | , 3i4, -3\%.31 |
| Tound animal jorchuret | $3,4694.7 \mathrm{~m} .72$ | 11, 151, (12) - (2) |
| Mathinctured jroalmets: |  |  |
| Sugar .......... |  |  |
|  | $\frac{2.41}{201}$ | $\begin{array}{r} 1.1: 120.10 \\ 1(i, 20.20) \end{array}$ |
| Flon11, cotton1-sted dakes, alul harino |  |  |
| Shцar loafo. | 23, $31 . \mathrm{Ma}$ | 21, 612.00 |
| Brant. | 17.071 .0 m | (11, 3ic). 00 |
| -triw lats | 139, 137.2] | 633], -21<. 80 |
| Tolvareo, manufactured. | . $0101,1831.17$ | 198, 2028.100 |
| Other manufactured produ | 3000, 15.59 .10 | 507,450 |
| Total mannfaturex | 3,014, 02 s .7 s | 3.76ti.443. 72 |
| Miserlaneous. | 1, 415. Am0. itic | 1.013, 2103.63 |
| Total exports: |  |  |
| Preeions metals | 121.9.05, 76, 87 | 123,735, 204.00 |
| otherarticles. | 117, \%-3. 1:h\% | 121.2s2, 506.00 |
| Total. |  | $215.01 \times .010 .00$ |

The dextimations of exports were as follows:



## CONSTRUCTION OF THE NAZAS RIVER DAM.

Contrants have ben entered into between the Mexican (iovernment and the representative of the compmy of S. Peatsox \& Sox, for the preparation of plans for the propeset dan at Cañon de Fernandez, in the state of Darango, for the storage of the waters of the Nazas Riser. The rontract also provitles for the preparation of plans by the same compally covering the necessary works for distributing water throughont the Laguna district.

## IRRIGATION IN THE COTTON DISTRICT.

One of the immediate benefits to be derived from the construction of the Nazas River dann at San Fernander will be an immensely in(reased eotton yielt in the Laguna district. This section of Mexieo is a level hasin with wonderfally fertile lants suitable for the eulture of cotton. The district is thoted with factorios ant traversed by railroads for the tramsort of both raw and mannfactured products. while the surromeding momtains are impregnated with rich metal deposits.

It present the mineral production is the leading sonree of reveme to Ierdo. Gomez Palacio, and Torreon, the centers of industrial life in the district, but it is anticipated that the proper distribution of
the Nazas water supply will not only double the output of cotton bit also give immense impetns to other agricultural enterprises.

Experts of Emrope clam that the Lagman cotton is of remarkably strong filer and of excellent textme and color. The total erop of the Republic for 1907 was 80.000 bales, and ans the consmmption in the mills. was about 1arion hales, large quantitien are imported to meet locell demand. The imports of textile fibers ly Mexieo for the fiscal fear 1907-8 were nearly donble in value those reported for the preceding sear, the ammal imports from the Inited states being estimated at about 50,000 bales.


1N THE LA BORDI GARDENS, CLERNAVMCA, MEXICO.

 riold verdure of a moltitule of tropiod and subtropiral trees and phats, is the ratigation of a miners dreman of faryland. This veritable paralise was a favorite spot of the unfortmmete Carlotha, Empress uf the ill-fated Maxinilian.

In 1906, the cotton yield was far in excess of the demand, and Bo,000 hales were shipped to Enrope, but, lacking sufficient and regnlar water supply, the growers are unable to acembately gange the ontpht from year to year. This uncertanty will be overcome by the agency of the San Fernande\% dam.

## COMMERCIAL VALUE OF GUAYULE.

In connection with the increased shipments of guayule from Mexico during the fiseal year ending Jume 30,1908 , when the valuation was given as over 500.000 in excess of the preceding year, it is significant
that receipts of roblere in the lonted states from Mexiro, mainly gutanle. are steadily on the increase.

From damaty to December: 1907. total exports of gatanle agere-
 World." ! 9.400 .000 were rent to the ['nited states and the remainder
 to the ameamt of s. 910.000 pommes. of which ( 6.9 so 0,000 pommes were

()f total rubler imports. amoming to (ix.2:3.3.1(0) pommis. by the



THE PALO COLORADO AS A RUBBER PRODUCER.
Fince the exploitation of the graynule business. with its attembant finame ial maces. propectors have been inverigating other plants and tree in Mexico in the hope of meeting with similar good fortille.

The invertigators confidently expect to more than dhplicate what has been achieved with the gutymbe plant by utilizing the palo colorado. They claim that the sap from the palo colorado tree contains over :3:3 per cent of pure canotchonc: several tons of sap have been gathered and is being experimented mon. The results of the experiments have not been made public. but the fact of bonding large tracts of lamd would indicate that the promoters have great confidence in the ultimate outcome.

The palo colorado cmenacho tree grows failly abmelantly on the Pacifie slope of the Sierma Madre Momentans at an elevation of from g.n00 to 4.000 feet abose sea level, and it forms in many places the line of demarcation between the pine and oak timber.

The largen and most thrifty growth is to be fomm in the shatly places-that is , in the shate of other trees of a larger growth or in the mometain ravines where the emon shines little. The tree attains an a verage height of $2+1$ feet. and in diancter is from 8 to $1 t$ inches.
'The leaves are large, oval in shape, nsmally three on atem. sometimes five, the leaf stem being abont 6 inches in length and the size of a lead pencil. A perwon handling the lawes experiences the same rensations as in handling netter. The tree bears a large white hos--om, commencing to flower in May and contiming in flower motil late in Angust. The bark is a dark reddish gray in color, very soft and thin. It is tapped in the same mamer as the true rubber tree. and when tapped there exmes a thick white sap which, as it is exposed to the air. becomes semisolid. The pans ned in collecting are wet to prevent the sap from adhering. The maton for sap gathering rontinues throughout the whole year. When tapped the larger trees
 ! Wo days run the ent is closed with clay to allow the tree to regain its vitality.

The guranle, or rubler substitute. five veare ago was practically moknown as a comenercial factor. In the vear 1 !on there was exported to the United states nearly slos,000 worth: with the rear cuding June :30. 190) the exportations of the problact of this plant amomed to over s.2.20, 000 from the consmar distriet of lanango alone. The entavile business hats grown to one employing sereal thonsand men and capitalized to the extent of over a million dollars.

BANKING INSTITUTION FOR AGRICULTURAL AND IRRIGATION PROMOTION.

The eoncession authorizing the establishment of a banking instithtion in the Mexiean capital to serve as an aid to agriculture and to irrigation enterprises in the Republie wats signed by the Minister of Fomento on September :3, 1!08. the concessionnaires being representatives of the following banks: The National Bank of Mexico. the bank of London and Mexico, the Mexican Central Bank, and the Mexiem Bank of Commerce and Industry. The primary pmopere of the institution is to furnish funds on long time and at moderate interest to national irrigation, agricultural, and stock-raising concerns. and, in a supplementary maner. for the exploitation of mineral. fuel, and metallurgical works.

The initial capital is pladerl at a minimmon of $\$ 10,0(0), 000)$ Mexican and the Federal Govermment binds itself to grarantere both as to principal and interest, the bonds or obligations which the bank is to issue in order to acomplish the purposes of its being. sulbeet to the following conditions:
(1) The total nominal value of the bonds or obligations shall not. for the present, exeed \$.0.000,000 Mexican, or the equivalent of that shm in foreign eoin. This amomint may not be exereded without anthorization by the Federal Congress and mess the bank capital be increased in such proportion that it shall never be less than onefifth of the amomit of the bonds or obligations graranteed by the nation.
(2) The rate of interest, the rate of issme of the bonds or obligat tions, and the conditions for their anortization will be deeded in every ease with the approval of the Department of Finance.

A report and balance sheet covering the status of the institution shall be presented semiammally to the (eovermment, the partionlars of which shall be published in the " Ihiernio Oficiml."

The terms of the loans to be made bey the bank shatl not exeeed fifteen rears on mortgage seedrities. and in other (ases the daration
is limited to three years. On meither shall the rate of interest exeerd 7 per welt, sate beperial permit of the Department of Finame and Pablic Credit. The rate may also be ordered deereased by the same Department when the bank, by means of Federal gramanties. is cuabled to secmre finnds at an actual interest disbursement of less than $\therefore$ per cent per ammm.

Lomats on motgages shall not exced co per cent of the value of the property atfected, appratisememt being matle either in adeordanere with the opinion of specially appointed experts or with the taritl for the sale of vacant lands in force at the time of the proposed transacetion.

The incorporation of the lank is to take place by public deed bey November :3, and one month thereafter is assigned as the time limit
 holders. beth deed and stathese to be subject to approval by the Departme of Finance and Public (reedia.

The life of the company is fixed at fifty vears, mentess it be extemed by an act of the Federal Congress and by virtne of a resolntion of the shareholders.

Thor limit of the operations of the bank is set forth in article :3 of the roncession.

## CUSTOMS RECEIPTS. JULY, 1908.

Fignres covering the chstom: receipts at the varions ports of the



## THE SALTILLO WHEAT CROP.

It is reported that the wheat erop in the Saltillo district of Mexieo has proved to be even smaller thath earlier extimates indieatede and the supply of native wheat will not last the mills longer than september if they are run teatily. I petition hats been forwarded to the Foteral (iovermment asking for the removal of daties on importer wheat. Without wating for the abolition or reduction of import duties one miller of saltillo has already ordered ten carlonds of wheat from the Conited States.
 (anrency per 100 pomats. The import duty is abont se.25 per 100 polinds.

## DEVELOPMENT OF OIL FIELDS.

Inited States Consul Widdinm W. Caxid.i, of Veracmz, reports that there has been great activity in different parts of Mexico in prospeeting for amd developing oil lands, and a monler of American sondiontes are sald to have obtained options on extemsive tracts of land in the states of Tamaulipas. Veracruza and Chiapas.

A lagge momber of deals have recently beron cloned, and the necessaly drilling ontits have been bronght from the Guited states. Tent borings are taking place in every direction. and reports of new wells. -trinck are of freduent occurrence.

The Inasteca Petrolem Company has been granted a very favorable concesion for the exploitation of oil lands in the northeastern part of the state of Veracraz. Machinery, tankage, and mpplies for this venture may come free of duty and are aloo exempt firon Federal taxation for a term of years. The company has a capital of \$.50.000 grold and is organized muder the haw of Mexico. Arrangements are muder way for the construction of a pipe line to Mexico ("ity.

In the Pidelucalco district. in the state of Chiapas, the Anglo-Mexican Oil Fields (Limited) is putting down a momber of wells and is said to have struck agool flow of oil near Ell Chapapote at a depth of only sereral hundred feet. The same company is opening up a new field on the San Cartos haciemia, near El Cambe.

## STOCK AND AGRICULTURAL FAIR AT COYOACAN.

The Mexican (iovermment has granted a ronersion for the cetab-li-hment of a stock and agricultaral fair at Coyoacan, a suburb of the capital of the Repmblic. Exhibits of cattle, fowls, dometic antmals, agricultumal prodncts, machinery, and tools will be made at stated intervals, and prizes will be given to the exhibitors making the bext displays. The (iovermuent agrees to make an ammal appropriation of $2 \overline{2} .000$ peses.s ( $\$ 13.200$ ) as a prize fimed. to be a warded to exhibitors either in moner, medals, diplomats, ette., atud to pay the eompany an
 tion and repair of buildings. expensen of admintistation, and other necesiany ontays. Should the company decide to mell its property the Government retains the right to acquile it, should it deeire to do -o. in preference to any other purdtaser. With the consent of the Government, other fairs and expositions may be ledd in the buiklings and on the gromuds of the company, provided they do not inter fere with the stock and agricultural faise refered to in the concersion. The contract will remain in foree for five vears from Angust 10,1 ! 0 s.

## CONCESSION FOR THE STORAGE AND SALE OF COAL AT MAN-

 ZANILLO.The Mexican (iovermment has anthorized Edgan K. Smoot to con--truct a building or buildings at Manzanillo. State of Colima, Mexico. for the storage and sale of coal at that port. The plans of the buildings, wharves, and railway terminal facilities of the coaling station must be sulmitted to and receive the approval of the Government within twelve months from Augnst 13, 1908. The concession is for a period of thirty-five years.

## CAPITAL OF THE BANKS OF THE REPUBLIC.

On Jamary :31. 1908, the capital of the lamke of the Repnblic aggre-

 (S.2.20.000) dirring the period referred to.

## WATER POWER IN THE GUADALAJARA DISTRICT,

An extimate prepared for the Mexican Central Railway in regard to the water power alvalable in the eity and tribntary torritory of Gamdalajara shows the emomoms total of 200.000 homspower.

Aceording to a conmative eatmate. the Bermejillo concession at Jnanamatlan, with 15,000 liters of water pere second and 56 meters of fall. has a theoretical power of 11.400 horser: the Mamel Cuesta (iallardo concesion, with 15.000 liters of water per seond and 2.00 meters of fall, covers a oono horsepower: the French or Nequete concession, with 1. 000 liters of water per second and 110 meters of fall, 12.000 horsepower: the Peroz-V:spe\%-Rogers concession, with 15,000 liters of water per secomed and 210 meters of fall. $4 \geq .000$ horsepower. This wives a total theoretical power of 115.000 horsepower leaving still mapplied narly 100.000 horepower avaibable for industrial pmrpoese for delivery in Gatalajara.

The concesiont mentioned control the Santiago River from Lake Chapala to a point 2 kilometers bolow san Cristobal. covering a total distane of abont !ol kilometers, the river forming a semicircle aromed (intalalayjara.

Lower down on the river additional power agregating abont 100,000 horsepower is obtainable, the total amome locing within miles of the city.

The companies operating concessions in the vieinity are importing much new machinery and the owner of one of the most valnable has: recently secmed the rights covering the lighting and power sys tem of Gnadalajara,


## THE MINING INDUSTRY IN THE REPUBLIC.

An extended review of the mineral indnstry of Nicaragna, furni:hed from Bhefields to the "Mining Jonrnal" (London) for Angust 2.2 reports gold shipments from the Dtantic coast of the Repmblic dmring 190 (fiscal year) to the valne of $\$ 800.000$. For the year ending June 30,1908 , the general decline as compared with
the figures for the preceding vear amomed to abont sion,000, of which sin0.000 is aredited to exports from Bhefields. For 1900 the



Exports do not represent the entire production of the Repnblice as a pertion of the ontput is made up into native jewelly: some goes into the interior of the combtre and to Ilonduras, and part of it taken from the combtry as contraband. Theee supplementary portions were selleduled in 1907 at may be figured at $\mathrm{sl} .000,000$.

Dnties on gold are paid in expert honde. in the absence of which a sureharge of so per cent is made. Abont 100 stuare miles of fine mining property are held hy the La Villebemure eoneresion, while the United States and Nicaragnan Company have property righte in several thomsand square miles of mining gromm, railroad and telegraphs, river narigation. etc.. having epent $\$ 1.000,000$ in developing their concestion. Another company operating mulder the name of the Nignia Mining Company holds minemat rights: of 1 s.ono hece tares (about to, 000 a ares) : also concessions for dredging the three small rivers between Bhefields and (irevtown, along which the lands lie.

EXPORTS FROM BLUEFIELDS, FISCAL YEAR 1908.
The gross valne, in gold, of merehandise shipped from Bhnefields to the I'nited states for the rear ending Jme $30,190 \mathrm{~s}$, as reported bẹ Mr. MI. J. Chaver, United Stater Vice-(Consml at that port. Was as follows:



 experner.
 turtle thell- is controlled beg coneersions.

## CONCESSION FOR ASIATIC IMMIGRATION.

 the Nicaragnath (iovermment has given a fiverear concemion to a Mexiceall, granting the right to introdnee Chinese and dapanese int
 with phantations and othe industries in the combtry. This comere--ion. howerer, is comblitoned on the exablishment bey thences -ionaire within the ferion of one vear, of a line of stemers from
 Contral American ports, inchding Corinto and San Juan del Sur.


## MESSAGE OF THE PRESIDENT.

 10) the Congres of the lepmblie of lamamat assembled in requlan' oresion, on september 1. 190) stated that the Repnblice contimes (0) mainain amicable and friendly relations with all the mations of the world. as i : shown hey the cordial treatment of the diplomatio representatives of l'antamal in the New and in the Old World, ame bey
 States and to -ome of the citice of Emope.

The Rephblice of Pamama was represented at the Secomed Interpattional Peace (onforeme hed at The llagues and will semd deleqate(o) the laternational Commission of Jurist- that will meet in the capital of brazil in compliance with a reahtion of the 'Third Pan-
 $1!0 \%$.

Referring to telegraph construction. the lereident recommends a comsidecalble incerase in that iten of the butget, in order that telegraph lines may be extended to all the important districts and settloments of the combtry. some parts of which are at present withont this neeful and rap id means of commmication.

The foreign postal service is being operated in a satisfactory manner and in accordance with the provisions of the Universal Postal [nion. Panamal has celebrated, from time to time a mmber of postal combentions with different commere of Emope and America. Internal postal commmication amswers the present local wants, but the lresident recommends the enactment of mearmes for the extenfion and betterment of the service to meet the growing demands of the mation, and sugge the employment of a larger momber of women in that branch of the public service.

Regarding the finances of the nation, it is intereating to note that the cash balance on Febmany 20. 1904. when Prevident Germmero


ANCIENT TOWER OF THE OLD CITY OF PANAMA.
This old tower, overgrown with vines and woetation, marks the site of the origimal eity of lamama, founded ${ }^{5}$ miles inlathl from the present city in 1515. It flourished until 1671, when it Was wantonly aleatroved by Morgan, the bucanter.
became the Chief Executive of the Republic, was $\$ 3,149.7$, which amomit, phas $\$ 10.000,000$ received from the Panama Canal negotiations, made a total of $\$ 10.003 .149 . \overline{\mathrm{T}}$. Dnring the present administration $\$ 206.469 .40$ was paid out of the aforesald $: m m$ on accomnt of loans made by the Provisional Govermment Board and snbsequently to defray expenses incurred ly order of the said board; \$3,200.000 have been invested in pulblic works of manestioned utility to the commery. Notwithstanding these onthays. the credit balance of the Republic on June 30, 1908, consisted of \$8.860.69).,68, represented by deposits and mortgages in the United States, $\$ 250,000$ on deposit

$$
56 \pi 07-\text { Bull, } 4 \text {, pt } 1-0 S-11
$$

 dario), and cath on hand in the (emeral Treasary of the nation to the amome of se:3, tim, making the total arailable areets at the time mentioned ss.14.16:9.68. Inring the fome vears of the present adminitration the ontay of the (iovermment for phble inprowe
 receipts from the regular somede of reveme which exees representnerfinl and sub)etantial improwements made thronghont the entire comintry.

The reveme serem of the Republie is fomeded on import duties on foredgn merelandise and intermal taxe on lignors. 'The Peresident recommends that the eomeres of reveme be preered and that prostedion be given to eome of the new indurtries recontly entabli-hed in the liepmblic. the principal one of which is the rearing of sork. and sugge-ts that the bomity sytem be carefully :thedied in order to see if it wonld be of benefit to adapt it in some case in the deronragement and development of some of the newer indnetries of the combtre.

The Preeident manifeste a keen interes in the camee of public edncation, and tates that there hat been considerable growth amd imporement in prinary instruction in Pamama. There has been establi-hed in the capital a selool of Are and 'raders, which promise to become one of the most nsefnl and salntary in-titntions of the country. The (apital also has a primary training sehool to sup)ply teachers for the edncation of the aborigines of the combtre.

Searly all the pulble works commenced mader the present administration have becn snecessfully terminated. Among these the most worthy of mention are the Govermment Palace and the National Theater. Thee two buildings were erected at a cost of a little ower sion.000. the (iowerment Palace being now in nee, and the theater soon to be opened to public service. Many other public works, meln as the construction of buildings, bridges, whares, and the opening, improvement, and extension of roads, have been undertaken and completed during President (idememoss administration.

Anotiner important event which has ocenred dhring the prevent adminitration has been the enconragement to stemm natigation in the constwise trate of the Republic. The dovermment has subventioned a maritime company, and a satisfactory coastwise service has been eetablished for the I acifie const region, and the benefits derived from this sure and convenient mode of commmication are already being felt all over the commtry.

The charitable institutions of the country have receivel the special attention and encomagement of the administration, the Santo Tomas Itospial having been completely renovated and placed in first-class condition. The mmber of patients treated in this institntion in 1 ! 107 was t.316, the death mate being les than s per went. The other pin-
cipal cleemo-yater intitutions of the capital are the Lating-in llowpital and the Bolivar A-ymm. the first hamed having treated $10: 3$ eases doring the last serenteen monthes and the latter hating been of great bencfit to the mformmate pore of the Repmblic.

The Prexident dowe his mexage bey strongly rerommending meatmes that will temd to attract currents of immigration to Pamama, calls attention to the favomble sanitary comdition of the comatry at the fremelt time. to its atety as an abode for immigrante, and to the bondit- agricultmal immigrant- wonld lend to the development and material progrese of the lepmbic.


OLD SEI WALL AN1) WATCll TOWER OF THE ClTY OF PANAMA.
When thene fortifieations were erected they were mong the most formidable in the world, and

 of which lizarro fitterl out hivexperdition for the eompuest of ferm.

## FINANCIAL STATUS IN 1908.

The report issued by the Secretary of the Treasury of the Republic of Panama for the six months ending June 30. 1908, shows dredit balance of the Govermment on that date as si.860.696.68. Of this, $\$ 6,000,000$ gold is repremented by first mortgages on real-estate hold-
 tion, $\$ 1,505,307.03$ is on deposit ans acconnt emment in the same city.

National receipts dming the six months covered by the report amomed to slas.int.15, from the following somese: Liquor tas,



A balance after paying the expelase of the (ioverment for the six months to the amome of s10.0.307.0:3 was thened inte the Treasmore and for emrent expenditures there were at the end of dine.



FRANCHISES FOR THE MEAT INDUSTRY.
The President of Paraguay promulgated on July 7.1904 a ageneral law governing the granting of franchises, valid mal December 31. 1935.) to meat extact and raming companies organized in acoordance with its provisions. Cuder the terms of this law any eompany debibing to engage in the industry of extracting and caming meats is allowed to import. free of dhty the material and machinery necessaly for the erection of the factory and the installation of the machatere wogether with other whplies and substancer. such as patcking looxes and material and machinery for their mannfacture reguired in the preparation of the ontput of the phant. Coal for fuel may abo be imported without the payment of daty.

The free importation of eattle is permitted from the Argentine Republic and the State of Matto (irosso, Brazil, if there is no epi\%ootic at the places where the shipments originate, and provided the sanitary laws and customs regulations of the Republic of Paragmay are complied with. No export duty will be levied on the products and beprocluets of the indhstry, but lighterage and storage charges will be eollected if ne is made of the equipment. aranes, and stevedoves of the Federal castom-honee, but should the company use its, own wharf in loding and moading, it shall be exempt from the aforesaid charges.

The Executive reserves the right to specify the minimm mmmber of amimals that shall be shanghtered ammally in the establishment operating meler this law, and should the company fail for a period of twelse consechtive months to slanghter said minimmom nomber, this omission, ipso farto, shall work a forfeiture of the concession, moness such failne was due to an act of God or mavoidable ciremmstances. The Executive will also appoint an inspector to garard the interests of the State and to see that ouly healthy amimals are slanghtered. the salary of said official to be paid by the eompany.

The President will decide ammally, and in each particular case. after having received the report of the customs administrator, based upon the importance of the output of the factories, concerning the merchandise that may be imported free of duty in accordance with the provisions of this law. Meat extract and camning factories shall only pay a Federal tax of 20 cents gold for each mimal slanghtered in lien of an export dnty on lides.

All articles imported or exported by the concessionaires in violation of the provisions of this law are subject to confiscation by the state and to the forfeiture of the concession. The compamies organized moler this law must have their legal domicile in the Repnblic and keep their accomets in Spanish.

No more farorable concesions than those provided for under this law shall be granted to any meat extract or caming company withont also applying to the companies organized muler the provisions of this atct.

## LIVE-STOCK CONVENTION WITH THE ARGENTINE REPUBLIC.

On July 16,1908 , the Govermment of P'aragnay approved the conbention signed at Buenos Lires on May : 30, 190s, between the reprerentatives of Paraguay and the Argentine Republic, regulating the interechange of stock between the two nations.


MINERAL RESOURCES AND MINING LAWS.
An exhanstive consideration of the resources and mining laws of the Republic of Pem has been fimmished the - Mexican Mining Wommal " by the Minister of Fomento of the Permian Government, who states that if matme has favored the cometry with great riches in all departments of the vegetable kingdom it has been even more prodigal with its grifts in the mineral kingrlom. As its fertility is extraordinary as its vegetation is exmberant, and its flora rare and raried, the cometry is even richer in the great abmendane and variety of its minerals. The resonces of the combtry in this line include gold, silser, copper, leat, mereluy, tin. bismuth, zine, iron, colalt, molyblemm, arsenic, wolfram, vanadimm, antimony, mica, manganese, ahmimm, graphite, potash, sola, silica, salts, sulphur, bithminons coal, peat, asphalt, piteh, petrolemm, ete.

The discovery and exploitation of the prineipal mining districts of Peru constitute an interesting chapter in the history of the period.

The natural develophent of the industry was hated at the begiming of the eighteenth erentury, primarily eaned by Indian rebellioms. which were followed by the long wars for independemes so that in 1 set. when Pernachieved her inderendence, the mining indhetry had fallen into decely. During the firet vears of independence the established Govermment combld do bat little to promote the progress of the industry, and the lack of capitalists and practical mining operator's militated againat its development. With the eatablis-hment of the school of Mines in 1 siti and the enactment of the mining law of $18{ }^{-7}$ the rehabilitation of the mining industry was initiated.

The prommlgation of a new mining coole in Jannary, leon, gave new impulse to mineral development and it is to the judicion and




liberal legislation on the part of the (iovermment that the progress noted in reecent years is due. This code facilitater to the greatest extent the adernisition of claims and permite the greate freedom in working the properties while gharantecing aboohte protection to the rights acepuired. Mining rights are free to all mationalities, the only requirement being the payment of a remiammal tax of 15. soles (:abont si.50) per pertemencia. Furthermore a special law pasiod in 18t: provides that matil 1915 it will not be possible to burden the mining industry nor the export- of the prodnets thereof with ang new tas.

The nemal dimensions of a pertenencia are 200 lon 100 meters, lant for coal and oil, as well as for placers of silver, tim. etc.. it has the
form of a square, 200 meters to the side. The number of pertenencias that may be demomed is practically mimited, thongh the law provides that the maximmon of contignoms pertenenciat shall not exceed
 petition of demonnememt. Which is the only fee impored on the transaction. whether the demomerement corer 1 or fopertenencias.

The National (iovermment, thengh the Departnent of Fomento. diecetly supervise the adjudication of mining concessions of all classes. 'The Nlinister of Fomento hass in his change the formation of the "P'eltron dirmerul de Mimes," which is the oflicial register for the inseription of all concersions.

The importation of mathinery, supplies, tools, ete., for use in mining operations is exempt from dution, the same being trate as regats coal, lmmber, dyamite, meremry, and all material necersary for the comstruction and operation of raihoads.

The Corpo of Mining Engineers. created in 1902, has for its object the further development of l'ernvim mines by exploring and making known by means of commissions new mineral districts. dereribing also the geological formations and magnitude of the lands explored. 'The remble of thee important works are published in epectal panphlete, profusely ilhetrated with photographes and maps.
The influence and participation of C'nited states cappal have been prominent factors in the reedent evolntion of Pernvian mines. many sureesfinl enterprise having been mudertaken, while othere are in procest of organization. The Ceroo de Paseo Company and the hea Minisg Company are epecially noteworthy examples.

 While coppere mantains the firet ramk, with s.ats, (68), the value is almost donble the figures cited for 1906 , when $\$ 1.980 .2$-. repreented the value of the ontpont. Silver, the next ranking iteme was prodnced
 Whereas gold declined from sion.atis to \$tth.1tis. Other minerals, with the exception of coal, increased the valne of their output.

The incerased mmber of peritions for demomements of mining properties is practical evidence of the growth of the indretry, it being fated that the adjudicated daime duringe the firse half of 1 :00 exreeded those of the preceding half year ley 3.3:3) A. Acording to the
 mining purposes in the Republic aggregated 71.000 hectares (about 275 spate miles).

The developments in copper mining are partionlanly numerons and important. 'The United states company now operating at Corro de Paseo procheces approximately to tons of copper daily, or an ammal


Pisco, ete., will greatly angment the eopper prodnetion, and the development of large deposits lately discovered at Inaylay, Quirnvila, Ipiacamcha, Cachi-Cachi. and elsewhere have proven very valnable. so that it is estimated that within a short time Pernis ammal shipments will amomet to $\therefore 0,000$ toms, thens bringing the comentry third only to the Gnited states and Mexioo as a protheer.

Nilver is fombl diseminated throngh all the Indean region. commonly asociated with lead or copper and frequently with both. " ('Isect jo," a mineral withont metallie brilliancy and of a reddish color, due to its proportion of iron oxide, is a silver-learing mineral peculiar to Pern, and, with copper. forms the great deposit of the Cerro de laseo district. The beet known silver dietricts in the north are Dnlgayoc. Aalpo, and Callejon de Ithaylas: in the center are Catajambo, Ilatrochiri, Yanle. Cerro de Paco. Intallanca, Castrovire yna. and in the sonth. Lacanas, Cailloma. Lampan, and Pimo.


Copper distrilntion is common hoth separately and in combination thronghont practically all of the lepublic. Veins, chiefly of copper containing a small portion of silver and traces of gold, abomed on the coast in Chimbote. I an, and Lomats. The sulphnides, areenical and antomoniacal ores are fomm in great abmadance in the Andean comtry, and are the oljects of considerable exploitation in the mining camps of Cerro de Pasco, lianli, and Ancaho. The famons ore borlies of Cerro de Paso are sitnated in the mion formed by the Cordilleras of the east and west Andes, at the bottom of a valley sumrombled by " cerros" of slight elevation. This deposit is a great ore body of copper, silver, gold, and lead, with several other minerals in a less scale, among which is vanadimm.

Gold is fomd in veins of fermginous quartz in the spurs of the western Cordilleras and in the same form in the rest of the Andes
region, ascociated generally with other metals, as silver and copper. and in the form of seattering flakes it is fomed in the alluvial deposits amb also in the sands that are washed ofl the mometans dining the freshets. On the coast the richest gold zone is that of Nasea and Camana; in the Andean region, those of Intameo, Dymares, Catabambas, Pataz, and Quispicanchi, and in the Montaña those of Sandia and Carabiya, that of Marañon, and varions others.

Lead abounds principally in the form of argentiferons galena, and the famons historical mine of Santa Barbara, celebrated for its merchry in colonial times, is located in the Department of Huancavelica. (inmabar is fomd in the vicinity. Notwithstanding the abmolance of tin in the Andes contignons to the I Bolivian border, it has been


太.NTO HoMINGO MLNE, PROV゙N(CE (HF C.IRABAYA, JERE,
 of lemasylvana conpitalists.
fomed in Pern only in the Provinces adjacent to that Repnblic. such as Inancame, Department of Pano, but withont economic importance. Iron is of common oecmrence, but has not as yet been the subject of (xploitation.
l'ern contains immense coal heds, anthracite being fonnd in the (himbote and IHarez districts, in the Provinces of Otnzco. Hnamadneco, and other places. Bitnminons coal is found in the Departments of Cajamarca, Ancahe. Jmin, Ica, Arequipa, Pmo, and Moopregna. There are a mumber of deposits that might be exploited with profit. the most valnable under working being in the vicinity of Cerro de Pasco.

Petrolemin is fomed in the neighborlow of ('himbete, in the Calaveras Monntains of the Province of (amsma, in the distride of Palpar.
 Department of Pmo, great deposits of petrolemm have been developed bedrilling, and it has been located in many other sedions. The disoorery of new peteolenn deposits in sonthern Pern near Lake Titicaca will add conviderably to Pern"s supply of this combutible.

The motallurgical plants now in operation manber s! of which 19 are for amalgamation, BD for lixiviation, 23 smelters, and 12 conrentrating with lixiviation and other procesere. Thare are also $\because$ petrolemm refineries and 1 for sulphar. . Thont 13,000 persons are employed in the exploitation of the varions mining developments of the Repulblic.

## DEVELOPIMENT OF COMMUNICATION FACILITIES.

Many motable pmblic improvements have been malertaken dming the able administration of President Josté Pamo, who was inangutated as the Chief Execntive of Pern ons sepember 언, 190t. Some of theee works have already been completed. while others are still in prorese of construetion. The following is a lint of some of the most important of these enterpriese:

## H11HW:MY.

One of the most inmpertant hational highways of the Repulbie is that now mader construetion between I'ancartambe and the Mardre de Dios River, a distane of :00) kilometers (12.5 miles), the extimater
 (0) trallice two large bridges, (o)-ting flt.ion, will have to be ron--trated over the lini and Tono rivers. Whan this highway is completed and after the railway rearhe Cuzor, the trip from Mollemed to the Palotoad River (an be mate in five days. viz: One-half day by rail from Mollendo to Aregnipa: one-half day hey rail from Arequipa (o) ('aycay: one day on horsoblack firm C'ayeny to Pancartambo: one and one-half days from lanceartanlon to A-macion: one day by horsabatek from Sancion to Palotom, and one-half day on the l'alotoa River to Mann. Navigation from I'alotoa is made withont ang risk whaterer.

The road from Cajanarea vial Chathapoyas to Moyobamban, and from the latter place to Balza lenerto and linemagnas, is another public highasy that is deatined to berome an important factor in the material development of the northern part of Perin. The lengeth of this road is about di00 kilometer- ( $: 3: 3$ milen) , and the (ant of con-
 miles) of this hishwity have bern cometrated.
 from Remay to Caraz via Carhatz and Vimgay, 101 kilometers (6is) miles), and other roads in the Department of Ancash, are being impowed and extented.

The Atoghaneo pass of the pulbice road from Cerro de Paseo to finamaco is being prepared for the reception of a substantial bridge that is to be erected at that phace. Four survess have been made of the road between Itammo and the Mozon Momatains. and plan: have been made to buide and improve mang other roads in the Republic.


THE STONE BRUDGE, LIMA, JERIN.
The first brigge acros the Rimate hiver was a women structare bath in lind. Fifty-six years later it was rephecel by a stome bridere, which lus withstood the ravages of time, and is ti-day the principend highway connecting the banks of the river.

A valuable improvement to the submils of the eapital is the construction of a beantiful a veme between Miraflores and El Mar, estab)lishing in this manner direet commmication between Lima and the places mentioned.

## BRIDGES.

Bridges are being constructed over the Cresnejas, Cumbil. Pativilea, and santa rivers, and at different places in the Republic, such as Quiroz, Recnay, Lambayeque, Atoghareo, Chalhanca, Inaroronto. Iharancalta, and Challa. Arvangements have been made to ronstruct bridges at Tambo, Majes, Piahnasi, Rams, Tono, and Piñi

Pinio, and bridges are being hnilt or repaired at Qupnijana, Hnaripampa, Llocllapampa, and llaapuillas.

## R.MILW.MYS.

At the end of september, 190t, there were $1, \bar{t}+1$ kilometers (1,0 2 miles) of rallways in operation in the Repmblie and 10 k kilometers ( 66 miles) in comstruction. Since that time ost kilometers ( 17 fis miles) of railway have been completed, sis kiloneters ( 2 minles) are now under construction and will be fintished by the end of the present year, and 2.010 kilometers ( $1.2+6$ miles) have been surveyed and steps taken toward their comstrmetion.

## COTTON GROWING IN THE REPUBLIC.


The general conditions for the cultivation of cotton in the valleys and lowlands of the west coast of Pern are excedingly farorable to the growth and development of this important fiber-producing plant. and insure a long and prosperous life to this branch of the agriculthral wealth of the mation. Considerable variations in the manner of cultivating cotton in different parts of the Pacific coast of the Repub)lic exist. due largely to the sithation and productiveness of the land the water available for irrigation purposes, the abmadane or sareity of labor in the different eotton-growing sections, and above all to the effect of the climate npon the growth of the plant and the quality of the prodnct.

There are large tracts of land sultable for the cultivation of cotton avalable on the west coast in the valleys of the rivers and stremms that flow down from the Andes Monntains to the Pacific ()cean. The soil of the parts of the valleys adapted to the cultivation of cotton is formed of surcessive layers of allurial deposits, and, muler the stimnlas of proper irrigation. is rembered exeedingly productive. In the famons cotton-prolucing departments of lambayeque and limia the valleys near the sea spread ont into considerable plains of monnpassed fertility, and the slope of the land toward the ocean is, generally speaking. such that irrigation along the monntain streams and rivers is rembered inexpensive. easy, and profitable. Wiater is most abmdant in the smmer montlis at the time regetation is most vigorons and when the coton plants require the greatest moisture for their proper growth and development. Sometimes the streams, fed by the melting snows and copions rains of the mper Andes, slightly overfow the plains and deposit thereon a rich sediment of allurinm which fertilizes and stimulates the growth of the cotton plant.

Cotton is a surer and more snitable crop to eultivate in this part of Peru than shgar cane, since the latter neds water all the year
romel. while the former reguire- relatively, but little water for its development and thrives with intermittent periods of moisture and irrigation. Climate, ail and facility of irrigation make the coltivation of cotton in many of the valleys of Pern similan to that followed in the noted cotton belt of Eigypt. and the quality and exedlence of Pemvian cotton have long been celebrated in the cotton matrkets of the world.

In northern Peru. Paita is the chief port for the export of cotton, while Pinra is the center of its prolnction and preparation for the manket. In the latter Department, five good crops, the first in the same vear it is planted. and two crops ammally during the two suc-


CONCEDCION MARKET, LIMA, PERE.
Lima hats four market places, this being the principal one. It ocenpies both floors of the building, which covers an entire bloek, It is well ventilated und equiped and is supplied with a great varicty of ments, birds, fish, vegetables, and fritits.
ceeding years, may be obtained from one planting, the first crop being somewhat light, the second fair, the third of greatest abmadance, and the two remaining erops yielding a diminishing return as compared with the third or maximmon crop. Coton from the Department of Piura is nsmally clased as " rongh P'eruvian." notwithstanding the fact that it variec greatly in cuality. length of staple and color, and close resemblance of the fiber of some grades to wool, so much so that It has been called "regetable wool." This kind of cotton is in great demand by manufacturers of ladies fine merino underwear and howiery.

A fiedd of fully developed l'ernvian cotton is most beantiful to behold. the plant containing at one time the flawer. the boll, and the open cotton rearly for the pieker. Pinra cotton has never been shecessfally grown in ally other part of the workl. dhe. probably. to the pernliar climate and woil required for its development and growth. and to the periotie semerer raine for which this narow belt of the coat land of Pern is noted.

There is annighe varicty of lemvian cotton of at delicately brownish tint. the fiber of which rembles wool. that is much songht for in comburce. ina-much as it requires no dreing to prepare it for a popular color of moderwear and hosiery that is in great demand in the U'nited states and Enope. This cotom has rather a lomer fiber, and is ased sometime hey Enropean mannfarturers in the adnlteration of certain grades of wilk fabrics.


FOREIGN TRADE. FIRST QUARTER OF 1908.
Official statistics of salvator show that the total exports for the first quarter of 1908 were valued at s.0.940.535, of which cotfer
 (indigo) were the only other exports of any consequence, amonnting to sin. 8.5 and \$to.0st. respectivels.

The exports to the principal comutries were as follows during the


 constituted nearly the whole exports to these combries, with the exreption of the United States. for which destination the exports of


## PROPOSED RAILWAY FROM SANTA ANA TO AHUACHAPAN.

The " Inicriou Oficial" of salvador publishes in its issue of Angust 10. 1908, a contract which the Government of that Repnblic propoes to make with the Salvador Railway Company (Limited), of Lomelon, for the extension of the railway from santa Ina to Ahachapan, via Chalehmpa and Atignizayar. Aecording to the terms of the proposed contract. on the completion of the railway and the opening of the same to traflic. one tran a day at least most be mom in cach direction betwern the terminal stations. The Gowernment is to grant to the constuction company a right of way of at least 20 meters wide, ant


such other gromads as may be needed for the stations, witches. ott.. free of charge to the companys exept in case of the lands of private persons, in which instance the compally mat reimbire the (fowernment at the rate of 1.200 pexts ( 8 tion) per kilometere ( 0.621 mile).
 pheted and opened to trathic within two gears from that date. The
 for a pertod of thity-five vears, or during the life of the proposed contract.

## COMMERCIAL TREATY WITH GERMANY.

By the terme of the commereial treaty between the Republice of salvador and (iedmany. condeladed in $\Lambda$ pril. 1 ! 00 s, the contrationg parties agree to areord to one another mot-farored-nation treatment in commercial. maritime and continlar matters. It is. however, stipmlated that any right, faror, or immmity which salvader has already granted on may hereafter grant to any on all of the other Central American Republics may not be clamed by (Germany muleos such right, favor. or immmity le extemded to some combtry other than the Central American Repmblics.

The treaty becomes effective upon the exchange of ratifieations. and is to remain in fore for ten years. and mates denomed one yan before the expiration of that perion it whall contime in fore for another vear, renewable by yearly periods motil one year after denombernent.


## INSURANCE REGULATIONS IN THE REPUBLIC.

In Jnly. 100s, the time limit accorted by the Uringityan Government to insorrance companies operating in the Republic for compliance with the provisions of the law of ommary 18, 1908, in regarel to the deposit of gmaranties and the payment of a tax on the preminn income expired.

The law in reference, as previonsly recorded in the Budeman. requires foreign companies to put up a guranty of \$30.000 gold if fire insinane is covered and $\$ 0.000$ if marine: while if both branche are served. the deposit is ase bere noted for fire and somen for marine. The preminum tax is 5 per cent for fire and 4 per cent for marine.

National eompanies pay half the above gramanties and pay a tax of $\because$ per cent on both clases of in-mance. It is provided that foreign companies may qualify as national companies if they inver \$150,000 eodd in real extate or bombs, or deposit this amomet in bank, not io ber tonched by the company holding it. Several forcign eompanies have complied with the latter condition, and are operating an mational organizations.

('ENTRAL RALLWAV' STATGON. MONTEVLDEO, VRUGUAY.
The ralway syatems of l'mgay have a length of alout 1,500 milec, and represent, including the
 guaranter of 3 per cent interest. Iruguayan railroadsare exempe from trade and ham taxes, as well ax from maport Aluties om constraction material.

## MUNICIPAL STATISTICS OF MONTEVIDEO.

The population of Monteviden on June 30, 1908, is given as 312,946, at against 308.0.) 6 on the same date of the preceding year. 'Tramway

 fignes for the corresponding period of 1907 being $\overline{7} .482 .270$ and $12,076,69 \%$, re-pectively.

The electric light company supplying the city shows profits from the operations for the year ending Jme 30 of $\$ 146 . \pi 86.80$ gold, an advance over the previons year of $\$ 2.000$. Private lighting increaser ley 10.t:3 incaudescent lampes and ois are lamps.

$$
5607-13111.4, \text { it } 1-04-12
$$

## CUSTOMS REVENUES, JULY, 1908.

Customs receipts of the [rughay han Remblic for July, 1008. and for the seven months of the vear embing with that month aggereated \$1.107.11:3.91 and s.040.0.2. repectivels. For the seven months'
 pertion of the pereding year, wherens in comparimon with the month of July. 190)
 from exports at $\$ 103,025 .+3$, while the Department eximate is


## NATURALIZATION CONVENTION WITH THE UNITED STATES.

 bepartment that he hats signed with the Vrognayan (fovermment a naturalization convention between the two conntrien. The comvention now gres to the [aited states for ratifuation.


## STATE BOUNTY FOR THE CULTIVATION OF RICE.

For the propere of stimnlating the entivation of rice the governor of the state of Zalial. Venc\%nela. hat been anthorized bey the state Legislatime to offer prizes or bometies aggregating a total of
 in protheing wertain quantitien and qualities of this nsefnl ereal. The first wo prizes are for 1.000 botions (s.00) eatch. to be awarded to the planters who produce, in the harest of laos the larges quantity of rice of a good qualite. the quantity to be at least loo funerges (240 bushels) of this cereall. Another prize of goo botions ( $\$ 120$ ) is oflered to the agrioulturist who contimes to baise the largest quantity of a grool quality of rice. provided the prodnetion deres not fall below 100 forne!ges ( 160 lmishels). Smaller prizes are offered ons similar comditions 10 other planter- who prodnce smaller flantities of a good quality of rice. The prizes are to be awarded on October $\leq 8$, 1909, by a board appointed by the Governor for that purpose.

PORT OF GUANTA, VENEZUELA.


## COALING OF VESSELS AT THE PORT OF LA VELA.

 -resed that foreign vescels desining to coal at the port of lat Vela are exempt feom the payment of the port dares fixed by the Code of


PACK MCLES IN VENEKI ELA.




Finame on the entrance and dearance of ressels, and that such ressels will he provided with all the aswistane posible in the operation of taking on coal. The price of coal at La Vela is fixed at ti. a ton.


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 mational service appeals to them. The mounts are of smah stature, strong, hardy, and high spirited, but very tractable.


LEZAMA PARK, BUENOS AIRES.
This is one of the popular parks of the city. Its koeation on a beantifut hill is pieturesque, from whieh can be seell the surrounding suburbs of La Bocat and Barracta, and a long stretch of La Plata River. The Russian chureh is shown in the background of this vew.


POST-OFFICE AND TELEGRAPH BUILDING, LIMA, PERU.
Notwithstanding the grat physionl obstacles encountered, bern's ponal and telegraph serviees have reached 11 high state of etherienes. The former has been more than relf-sastatning ior several years, and there are and pot-othoes in the Repmblie. The telograph system has a mileage of 3,200 , all bit 20 ler rent of wheh is operated lig the Government.


SCENE, ISLAND OF TIERRA DEL FUEGO, ARGENTINE REPUBLIC.

museum, la plata, argentine republic.
This institution was founded in $1 \times 4 \mathrm{by}$ its present Direetor, Frumcisoo I'. Noreno, and is situated ill the suburbs of La Plata, if what is known as the La Phata Forest. It coutains the largest rollection of American fossils in existence.

statue of general paez, caracas, venezuela.


 himself by enpturing a flect of spanioh transport vessels with a foree of ion trongers, the only recorded instance of the captare of a fleet by eavalry.


> ALAMEDA, SANTIAGO, CHILE.

и яи!


PUBLIC PARK, SĀO PAULO, BRAZIL.




## church of san francisco, lima, peru. <br> 



OVERLOOKING THE OLD TOWN OF SANTA MARTA, COLOMBIA
Santa Marta, founder in 1525, was the first settlement of the Spaniurds on the torthern const of what is now ('olonbia. In 1533 an expediton from this settlement hombted the near-by city of Curtagena, and three years later sent forth the expedition the city. At the present time simia Marta is a formishing trade cemter for the export of babanas and other frnits, being the terminal of a railroal and ashipping part for the stenmers of the Vhited Fruit Company

river san jose, at its junction with the tuy and stramina rivers, state of burmudez, venezuela.



SUBTROPICAL GARDENS OF LOTA, CHILE.
This gatk was the gift of Don buis Consiño, who, in 1siz, purchased the property whieh has developerd into the wonlerfully rich cond



GOVERNMENT ROAD FROM TEGUCIGALPA, HONDURAS, TO THE COAST.





TEMPLE OF MINERVA, AMATITLAN, GUATEMALA.
On October 28, 1899, President Manuel Estrada published a deeree setting apart the Inst Sunday in Oetober of each year as a national holiday to celebrate the benetits of public instruction. The exerelses and festivities are partieipated in by teachers, pupils, and the general publie, and are held in temples erected and dedicated to this purpose.


[^0]:    While the utmost care is taken to 'rsure accuracy in the publications of the International Bureau of the American Republics, no responsibility is assumed on account of errors or inaccuracies which may occur therein.

[^1]:    

[^2]:     Chairman, Cuban Delegation
    how. hun tington wilson, Dr.

    SR. Dov J. W. BAR
    Mexican Embasy.
    Dr. F. Roprigert hijo.
    Delegate from Atrentina.
    

[^3]:     sistemetia abmudintes. montes de oro i piata em estemsion interminable, prodnc-
    
     protección benélieat.

[^4]:    ${ }^{a}$ Not availably.

[^5]:    

[^6]:    
    SAN RAFAEL MINING WORKS, PACHUCA DISTRICT, HIDALGO, MEXICO.

