

	Precious metals.	Merchandise.	TOTALS.
Brought forward.....\$	36,026,742	26,793,692	62,820,434
Guatemala	168,691	25,020	193,711
Holland		187,932	187,932
Columbia	53,813	3,603	57,416
Nicaragua	4,993	1,297	6,290
San Salvador.....	2,133	2,502	4,635
Russia.....		4,000	4,000
Italy.....		920	920
China		845	845
Costa Rica.....		212	212
Total exportation	\$ 36,256,372	27,020,023	63,276,395

VI

INDUSTRIES.

The organization of the Department of Fomento in the year 1853, inaugurated a new era for the development of the country and the advancement of the national industries. Owing to the extensive repairs on wagon roads throughout the country, and the opening of new ones which facilitated communications between the principal towns of the Republic, trade became possible through channels which hitherto had been closed. The mining industry received a great impetus through the surveys which were made of the mineral districts, the reforms made in the Mining Ordinances, the regulation of the denouncements, possession and working of the mines, as well as the organization of the mining deputations and of practical schools of mining. The general industries of the country were greatly increased by a large number of factories in which yarns and cloth were manufactured both of cotton and wool, substituting modern machinery for the cumbersome and imperfect apparatus which had been used up to that time. Commerce and agriculture were greatly stimulated by the establishment of special schools, whilst the knowledge of national geography took a great step by means of the formation of scientific commissions which undertook explorations of the more interesting parts of the country, in this way preparing it for the establishment of colonies by giving an exact knowledge of its formation and resources.

In spite of all these energetic efforts the want of public tranquillity, as the result of many years of civil wars, opposed its natural resistance to the full developement of these improvements, initiated and placed in practice with the most patriotic intentions. The peace which the Republic now happily enjoys, without the least fear of any disturbance, has been fruitful in good results to the country which now begins to show the advantages of the same in its statistics of progress.

Besides the more important branches of agriculture and mining, many Mexicans find occupation in trade, in arts and in manufacturing industries of all kinds.

Both agriculture and mining provide the manufacturing industries with the raw material which they require, such as cotton, flax, numerous fibres extracted from different plants, amongst which we may mention ixtle and henequen, the hemp and ramie which are so abundantly produced in the country, indigo, saffron, orchilla weed, and other lichens used for dyeing purposes, Campeche wood, Brazil wood and zacatlaxcale; cochineal, barks used in pharmacy and in the tanning of skins, such as oak, cascalote, campeche and huamuchil, zarzaparrilla and many other plants; woods for construction and for cabinet work, reaching in quality from the very finest such as mahogany, ebony, tapinceran, balsam, iron wood, walnut, cedar, cat wood, rosewood and many others, down to the commonest class such as oak, ash, oyamel, and many others of the numerous family of the conifera; oleaginous seeds and plants such as olives, sesame, linseed, peanut, chicalote, cocoanut, oil coco, walnut and castor bean; mucilaginous seeds such as chia; gums and resins such as copal, liquid amber, linoleum, mesquite and pine; animal and vegetable wax; sugar cane; different fruits for the preparation of liquors; animal and vegetable silk, skins, wool, mother of pearl and other shells, pearls and tortoise shell, different minerals, precious stones, rock crystal, building stone and very handsome marbles and

alabaster, amongst which we may mention the beautiful onyx from Tecali and other places.

The manufacturing industries include the making of cotton and woollen cloths, prints, the winding and weaving of silk, the manufacture of china and porcelain, both fine and common, of all kinds of articles of clay, of glass, paper and chemical substances, the manufacture of sugar, syrups and spirits from sugarcane, from fruits and from the maguey plant which produces mezcal and tequila, whilst in a very extensive region of the country it produces the fermented liquor known under the name of pulque. In Parras, Paso del Norte and other places excellent grapes are cultivated which produce very good wine; and in many other parts the quince yields good beer and wine. In other parts there are extensive manufactories of objects of tortoise shell, silver, mother of pearl, bone, henequen, wax, rag, clay and onyx; there are many flour mills and manufactories of starch from wheat and from yuca. In the towns we find carriage and furniture factories of all classes, tan yards and leather workers; cigar factories and hat factories on a large scale. The Mexicans also employ themselves in all the arts, being especially prominent in those of printing, book-binding, cabinet making and carpentry, shoe making and carving in stone or wood.

The manufacturing industries of the country are represented by 93 cotton factories of different classes and 27 woollen factories in the following order:

COTTON FACTORIES.

Federal District.

Names of factories.	Situation.	Number of operatives.	Annual production.	Value of production.
La Horniga.....	San Angel.....	350	Pieces domestic.....	\$ 247,500
Magdalena.....	Contreras.....	400	"	330,000
Compañía Industrial.....	La Teja.....	200	"	210,000
La Victoria.....	La Viga.....	300	"	240,000
La Fama.....	Tlalpam.....	290	"	225,000
San Antonio.....	México.....	700	"	900,000
<i>Coahuila.</i>				
Aurora.....	Saltillo.....	56	Pieces domestic.....	27,500
Buena Fe.....	Monclova.....	.....	" plain cloth.....	90,000
Dávila Hoyos.....	Villa Arteaga.....	56	" imperial and drill.....	27,500
Esmeralda.....	Ramos Arispe.....	28	" domestic.....	13,750
Estrella.....	Parras.....	600	" white cloth.....	450,000
Hibernia.....	Saltillo.....	60	" domestic.....	33,000
Libertad.....	"	70	"	41,250
Labrador.....	"	36	"	19,250
<i>Chihuahua.</i>				
Talamantes.....	Chihuahua.....	220	Pieces domestic.....	55,000

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Colima.

Names of factories.	Situation.	Number of operatives.	Annual production.	Value of production.
Armonía.....	Colima.....	50	Pieces domestic.....	\$ 41,250
Atrevida.....	"	100	"	99,000

Durango.

Belem.....	Pefion Blanco.....	55	Pieces domestic.....	99,000
Constancia.....	Nombre de Dios.....	60	"	33,000
Constancia.....	Mapimí.....	84	" and drill.....	90,000
Providencia.....	Durango.....	70	"	22,000
El Salto.....	Nombre de Dios.....	60	"	33,000
El Tambor.....	Papasquiario.....	55	"	16,500
El Tunal.....	Durango.....	250	"	33,000
Sin Nombre.....	Villa Lerdo.....	50	"	66,000

Guanajuato.

Batanes.....	.....	.....	Pieces domestic.....	33,000
Americana.....	Leon.....	102	Yarn.....	.....
Providencia.....	Chamacuero.....	150	Pieces domestic.....	198,000
Reforma.....	Salvatierra.....	150	"	187,000

Guerrero.

Perseverancia.....	Atoyac de Alvarez.....	100	Pieces domestic.....	66,000
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<i>Hidalgo.</i>				
<u>Names of factories.</u>	<u>Situation.</u>	<u>Number of operatives.</u>	<u>Annual production.</u>	<u>Value of production.</u>
Maravilla.....	.....	60	16,000 Pieces domestic.....	\$ 44,000
<i>Jalisco.</i>				
Cruz de Piedra.....	.....	.....	.....	.....
Atemajac.....	Zapopan.....	170	60,000 Domestic, drill and yarn.....	210,000
Escoba.....	".....	200	50,000 Domestic.....	137,000
Rio Blanco.....	".....	.....	30,000 ".....	82,580
Experiencia.....	".....	.....	Yarn.....	.....
Victoria.....	Lagos.....	.....	40,000 Pieces domestic.....	110,000
<i>México.</i>				
Rio Hondo.....	Tlalnepantla.....	40	40,000 Pieces domestic.....	110,000
Colmena.....	".....	80	72,000 ".....	198,000
Miraflores.....	Chalco.....	86	76,000 ".....	209,000
<i>Michoacan.</i>				
La Paz.....	Morelia.....	176	36,000 Pieces domestic.....	99,000
Providencia.....	Uruapan.....	150	30,000 ".....	82,500

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<i>Nuevo Leon.</i>					
<u>Names of factories.</u>	<u>Situation.</u>	<u>Number of operatives.</u>	<u>Annual production.</u>	<u>Value of production.</u>	
Porvenir.....	Santiago.....	40	40,000 Pieces domestic.....	\$ 110,000	
La Leona.....	Garza García.....	70	20,000 ".....	55,000	.....
Fama.....	Santa Catarina.....	100	20,000 ".....	55,000	.....
<i>Oaxaca.</i>					
Vista Hermosa.....	San Agustín Etla.....	200	24,000 Pieces domestic.....	66,000	.....
San José.....	".....	250	40,000 ".....	110,000	.....
Xica.....	Villa Juárez.....	250	48,000 ".....	132,000	.....
<i>Puebla.</i>					
Patriotismo.....	Puebla.....	460	10,000 Pieces domestic.....	27,500	.....
Constancia.....	".....	280	40,000 Kilograms yarn.....	220,000	.....
Economía.....	".....	220	80,000 Pieces domestic.....	192,500	.....
Independencia.....	".....	95	10,000 Kilograms yarn.....	137,500	.....
Molino de Enmedio.....	".....	190	40,000 Pieces domestic.....	192,500
Mayorazgo.....	".....	140	20,000 Kilograms yarn.....	165,000
	".....		60,000 ".....	

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Puebla.

Names of factories.	Situation.	Number of operatives.	Annual production.	Value of production.
Guadalupe.....	Puebla.....	125	Pieces domestic.....	\$ 82,500
La Luz.....	"	75	"	68,750
San Juan Amatlan.....	"	150	"	165,000
Concepcion.....	"	110	Prints.....	450,000
Carolina.....	Atlixco.....	240	Pieces domestic.....	264,000
Concepcion.....	"	108	"	82,500
Santa Cruz.....	Cholula.....	160	"	192,500
Providencia.....	"	120	"	165,000
Beneficencia.....	"	130	"	165,000

Querétaro.

Hercules.....	La Cañada.....	1,000	Pieces domestic.....	467,000
La Purísima.....	"			
San Antonio.....	"			

San Luis Potosí.

El Venado.....	El Venado.....	400	Pieces domestic.....	137,500
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Sinaloa.

Bahía.....	"	9,600	Pieces domestic.....	26,400
Union.....	"	60,000	"	165,000
Coloso.....	Culiacan.....	200	"	33,000

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Sonora.			
Names of factories.	Situation.	Number of operatives.	Value of production.
Industria Sonorense.....	Los Angeles.....	84	12,000
Tepic.			
Jauja.....	Tepic.....	250	40,000
Bellavista.....	"	250	40,000
Santiago.....	Santiago.....	45	9,000
Fábrica del Río.....	Tepic.....	42	10,000
Tlaxcala.			
Alsacia.....	Zacatelco.....	160	15,000
El Valor.....	"	85	40,000
Tlaxcalteca.....	"	150	60,000
Josefina.....	"	200	120,000
San Manuel.....	Santa Cruz.....	200	120,000
Trinidad.....	"	226	90,000
Veracruz.			
Cocolapan.....	Orizaba.....	450	80,000
San Lorenzo.....	Nogales.....	470	100,000
Cerritos.....	Orizaba.....	196	26,000
Industria Jalapeña.....	Jalapa.....	114	50,000
El Molino.....	"	120	35,000

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Veracruz.				Value of production.
Names of factories.	Situation.	Number of operatives.	Annual production.	
Probidad.....	Jalapa.....	85	Pieces domestic.....	\$ 68,750
Lucas Martin.....	Banderilla.....	52	" " " " " "	33,000
Purísima.....	Coatepec.....	5	" " " " " "	33,000
Yucatan.				
Constancia.....	Mérida.....	90	Pieces domestic.....	33,000

The cotton proceeds from the fertile region which extends from Santa Rosalia in Chihuahua, to the Valley of the Nazas in Durango, from the Laguna District in Coahuila and from the coast, especially that of Veracruz, Oaxaca, Guerrero, Colima, and Jalisco. The entire consumption of cotton in the National factories can be estimated at 30,000,000 pounds (13,807,390 kilograms) per annum, the half of which is imported through Veracruz and the custom houses of the Northern Frontier. The average price of the cotton is 20 cents per pound.

WOOLLEN FACTORIES.

		Annual production.
La Minerva.....	Federal District.....	162,000 pieces.
Aguila.....		
De Monnet.....		
La Aurora.....	Aguascalientes.....
La Purísima.....		
San Ignacio.....		
La Industria.....	Chihuahua.....
La Constancia.....	Durango.....
San Fernando.....	Guanajuato.....	100,000 pieces.
Zempoala.....		
Esperanza.....		
Santiago.....	Hidalgo.....	125,000 "
Gayol.....		
El Carmen.....		
Angeles.....	México.....	150,000 "
San Luis.....		
San Ildefonso.....		
Progreso.....	Nuevo Leon.....	20,000 "
San Pedro.....		
Zapayantla.....		
Fronteriza.....	San Luis Potosí.....
San Felipe.....	Puebla.....	550,000 "
Concepcion.....		
San Gregorio.....		
Real del Alto.....	Zacatecas.....
Telaraña.....		
Zacatecana.....		

These factories produce 1,200,000 pieces of very good ker-simeres, counterpanes, serge, sarapes, blankets and other clothing.

PAPER FACTORIES.

Tapalpa and Atemajac, in Jalisco.	In the Federal District.
Cocolapan, in Veracruz.	
Santa Teresa.....	
Peña Pobre.....	
Belem.....	

The raw material used by these factories are rags, linseed straw, waste paper and cotton waste from the factories, the yearly consumption being estimated at 3,000,000 kilograms

The principal glass factories are those of Apizaco and Texcoco, and those of china are situated in the City of Mexico.

The subjects of agriculture and mining are treated of in another chapter.

VII

PUBLIC INSTRUCTION.

○ This interesting department, which is the principal and most solid foundation of the prosperity of nations, has been most highly developed in Mexico through the impetus it daily receives from all the authorities who have anything to do with its management. Moved by a patriotic desire for the advancement of their country, they have done their best to perpetuate the memory of the present administration, by a special attention to public instruction and by opening the greatest number possible of public schools. Outside of the large cities the schools shed the light of civilization on the most isolated villages, excepting only those remote places on the frontier which are at times subject to the invasion of savage Indian tribes. Public and private establishments, libraries, museums and numerous periodical publications contribute to the diffusion of education among the people, giving it at the same time a great onward impetus which is greatly assisted by the authorities and by the numerous societies instituted in the Republic.

The primary instruction is principally taken charge of by the municipalities, although the Federal Government supports some schools either directly or by means of subsidies. Other schools, and not a few are under the care and protection of private individuals and charitable societies.

The principal studies carried on in the primary schools are: reading, writing, grammar, arithmetic, decimal system, princi-