## PICTURESQUE MEXICO <br> 

8
保



n

$$
\begin{equation*}
-1 \tag{4}
\end{equation*}
$$

1

41
11
$\qquad$
$\pm$
1

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```

```
```

                    號
    ```
```


$-$
$\qquad$
18
1
$-1-2+2-5$


-
星
$=0=$
； ${ }_{0}=$
號

$=$
4
$=$
Ins
（1）

$\square$


## ORBISTERRARUMSERIES

Alread, published:
Volume 1. PICTURESQUE ITAL.
Volume II PICTCLRESQUL NORTH AFRIC.

In preparatuen:
Volume IV: PICTURESOUE PALESTINE AND ARABIA

# PICTURESQUE M 

THE COUNTRY. THE PEOPLE AND THE ARCHITECTURE

JARROLDS Publishers LONDON
Limited, 10 and II W'arivick Lane


```
1,., 215, 21;, 2-1, 22f, 227, 249, 2j", 2;2, 2;`, 2;9, 242, 24;, 245-247 an1 252
```



```
Maler, Li murap wal Museum, Berlm. All the others by Hugo Brelmme, Mexiko
```


## Digitized by the Internet Archive in 2011

Mexico is one of the richest countries in the world. Nowhere else do we find over such an extensive area equally favourable conditions for the formation and enrichment of ores. Nowhere else is there such fertility of soil coupled with such possibilities of crop cultivation as in the wedge-shaped southern end of the North American continent. The United States of Mexico do not represent a physical unity with their two million square kilometres. The Isthmus of Tehuantepec separates the States of Chiapas, Tabasco, Campeche and lucatan from the northern part of the country. In their geological structure, climate, regetation and fauna they belong to Central America.

The country to the north of the Isthmus is chiefly a high plateau. Along the Rio Grande del Norte it is merely the continuation of the stone and wastedeserts of Arizona and New Mexico with their wide table-mountains. To the south of the $28^{\circ}$ latitude the grouping of the mountain ranges becomes clearly evident. The high plateau or Mesa Central is limited in the west by the Sierra Madre Occidental with its wealth of recent volcanic extrusions, and in the east by the folded chains of the Sierra Madre Oriental, chiefly built up of limestone and flattening out northward to the "Llanos estacados" of Texas. Steep slopes deeply-incised by mountain torrents, the beds of which are dry during most of the year, give both of the bordering ranges a young and wild appearance. In its northern part, the Mesa Central is an enormous broad folded basin-area consisting of waste-plains, without exterior drainage, showing in the Bolsón of Mapimé an altitude lower than a thousand metres above sea-level. This steppelike boundary district was once the battle-field of nomadic Indian tribes against whose attack's European settlers had long to defend themselves.

Between the $25^{\circ}$ and $19^{\circ}$ latitude the high plateau rises again to 1.800 and 2,000 metres, and is divided up into several broad and fertile vallevs, separated by ridges or timbered mountain ranges, running as a rule parallel to the edge of the plateau, but in places with a somewhat oblique trend.

Further to the south the country rises to the zone of high rolcanos where lava-streams have blocked the ralleys in which, as in the valley of Mexico and further west in the states of Michoacan and Jalisco. great lakes were formed, most of which were salty. These parts of the country have long been densely populated. The strata of the soil show the remains of at least three preSpanish cultures superimposed one on the other: here on the surface we set foot on historic ground full of memories of recent Aztec or Spanish times. The highest volcanoes are the Pic of Orizaba (Citlaltepetl. Star Mountain). $j .594$ metres: Popocatepetl (the Smoking Mountain), j,4j2 metres (which after
a lons period of repose suddenly became active again in 1920), and Iztaccihuatl (the White Woman) 5.286 metres. Only these volcanoes are clad in everlasting smow: The present snow-line lies at about 4.500 metres Other well-known rolcanoss are the Nevada de Toluca (Xinantecatl) 4.578 metres, and in the State of Jalisco. the Nevada de Colima (,+ 378 metres), with its side cone thrown up in 1860. All these volcanoes are formed of andesitic lava and ashes. A weano built up in historic times is the 1,700 feet high basaltic cone of Mt. Jorullo in the state of.Michoacan) rising to a height of 1,820 metres above sea level.

The Mesa Central ceases abruptly south of the volcanic zone and splits up into a rushed low mountainous district decply carved by the Rio Balsas and its tributaries. The greatest range in this mountainous district is the Sierra Madre del Sur, a steep costal range sloping abruptly into the Pacific. Here in the surroundinss of Oxaca and in the Mixteca alta, rocks of archaean age and crystaline shists crop out ortr an extensive area. Boulders of archaean green stone may have supplied the material for the numerous little stone idols in the MixtecoT\%upotec style The highland and the Sierra Madre extend South of the Isthmus from Chiapas to Guatemala. The whole of the Chiapas mountain region was formerly the natural fortress of the Chiapanecs, a warlike and very ancient Indian tribe, who maintained their independence against the victorious adrance of the Mexican rule. During the Spanish rule Chiapas belonged to Guatemala as the Provincia de San Vicente de Chiapas. The descendants of kindred people duell to the south on both sides of the present state horder. Here are also the remnants of an old superior Indian culture common to both countries.

Both the shores of the Pacitic and the Culf of Mexico are bordered by narrow or brodd coastal plains. The broadest of these belts is the still uninhabited Lrats steppe at the lower part of the Rin Grande del Norte. This steppe is the southern citemsion of the Texas coastal plain. The peninsula of Lower Cali formia on the P'acific, the castern mountains of which rise to 2.000 metres, and the peninsula of Y'ucatan, on the Culf of Mexico, are mainly reached by sea from the rest of the country. In their somewhat loose connection with the Mexican Stute thes retain much that is peculiar to their historical and economic developmeme

Whough the sreater part of Mexico extends south of the Tropic of Cancer. to. It the tropieal Zone, it oflers the most varied conditions for vegetation nwing to its clerated position. It is the eleration atove seaterel, and not mind latiende that determines climate. There is also a sereat contrast between the humed Athatic and and Pacific coast where artificial irrigation is even necessits in the diemits of the neean (buls the Atantic winds bring rain. One ef the aneat distress on the P'a ifie is the central part of Lower Califormia where freyutath no rain falls for wion Setlements there are oases in the places where undersomad streams has been dammed and collected hehind artificial walls.

The Ref Pamen, an impatemt is teerwas of the oil district. flows into the Gulf of Mesion, as well as the Rio Planco and Rio Papaloapam falong the
banks of which are vast sugar-cane fields), the Rio Coatzacoalcos and the mighty streams Tabascos, Grijalva and Usumasinta. All these rivers may be navigated to the foot of the mountains by ships of shallow draught. It is chiefly during the rainy season in summer that their turbid waters carry the mud of the wild mountain torrents to the ocean. At their mouths they deposit broad "barras", the material of which is redistributed along the coast by the Gulf Stream, and accumulated in the form of dunes and sandy spits. The district around the mouths of the great streams to the east of the Isthmus is an alluvial plain of recent formation covered with savannas and swamps with natural channels which afford the only connection with the interior. But on the Pacific side the rivers break through the mountains at the bottom of deep oak and pine-clad gorges. Such rivers are for instance the Rio Sonora, Rio Yaqui and the powerful Rio Grande de Santiago or Lerma which flows through the Lago Chapala. Only the mouths of these rivers are navigable.

When we approach Mexico from Europe we only perceive the hot and damp coastal strip of Campeche, Tabasco and Vera Cruz. covered with a rank tropical forest and sparse-growing mangroves along the lagoons. This is the feverhaunted "tierra caliente", the home of numerous valuable timber trees, dye-w'oods and tropical forest animals. The country towards the interior, Edward Seler tells us, consists of vast wooded plains with an impenetrable tangle of the most varied deciduous trees. Their foliage is shed irregularly, and their trunks are very large with horizontally spreading branches. In the shade of these forest giants the tree-fern and small palms thrive, and different sorts of bamboo grow along the rivers and brooks. Cocoa and rubber-trees grow wild here, and the vaniila plant is found climbing the trunks of various trees. The great trunks are cumbered with innumerablc epiphytes or parasitical plants such as orchids, araceae, ferns and bromeliaceae which usually cling to the branches and forks of the branches and collect rain-drops, humus and all sorts of detritus in their funnelshaped leaves or rosettes. The cultivation of tobacco in the higher regions of this zone dates from ancient Indian days. It is now chiefly grown in the State of Oaxaca and in the surroundings of San Andrés Tuxtla in southern Vera Cruz on the west foot of the basaltic group of the San Martin volcano. Towards the steppe, on the outer fringe of the virgin forest, one often meets with outposts of scattered groups of single deep-rooted tropical trees such as the tall-stemmed silk-cotton tree (Bombax Ceiba L.) and the shady fig-tree (Higo, Ficus Amate L.).

Great dryness is a peculiarity of the northern Yucatan soil. Here the rainwater disappears in the crevices of a young limestone mass forming a cover over a part of northern Yucatan. The water collects on an impermeable marl bed at the base of the limestone mass into subterranean rivers and ponds. It is drawn up through shafts ("cenotes"), and is sometimes bitter. Now-a-days it is often raised by means of wind-driven motors. The dry soil is particularly adapted for raising sisal hemp (Agave sisaleana or rigida) which gives this landscape its particular character. Mcrida is the centre of the sisal hemp industry.

At a height of between 600 and 1,800 metres, on the slopes of the high plateau, extends the "tierra templada", the "temperate land", along the Guif coast near Orizaba and Jalapa. It is covered with evergreen woods. Rain falls here practically throughout the year. Heavy dew refreshes the plants every night. But the climate, away from the fever-laden swamps of the lowland, is mild and pleasant. Sugar-cane and rice thrive there without artificial irrigation. Beside a large number of indigenous tropical fruits such as mammees, aguacates, lapotes, anonas and papaws, mangos, oranges and bananas, introduced from the Mediterranean and India, thrive here as though they were at home. The lower levels of this zone, as for instance round Córdoba, are often characterized by red lateritious soil which glimmers through the green foliage. Here are the chief regions of the cofflee-plant. In these zones, on the southern slope of the high plateau in the State of Morelos, are situated the health-resorts Cuauthla and Cuernavaca. The latter town was presented by Charles V. to the conqueror (Sortes who was the tirst to cultivate the sugar-cane in its surroundings. Then Where is Uaxaca, the capital of the state of the same name, and finally. on the south-west slopes of the plateau, not far from Guadalajara (the second largest city in Mexico), all the villa colonies along the shores of Lago de Chapala (the largest lake in the country). The mountain region that extends from the clerated valley of Puebla to the coast of the Pacific was called "mixtlan" (cloud land) by the ancient Mexican Indians, and is known to-day as Mixteca.

The lact that the arid plateau, the "tierra fria" (cold land) is situated on the leasside of the eastern coast range, and does not thus receive the rain laden trade winds. explains its dry climate. Only about one-fith of the precipitation of the terrat templuder of Orizaba falls here. The year is divided, as further north and atons the mortheastern shore, into a dry and rainy scason. According to Fidward Scter's observations the months of February to April cover the period of relatively greatest aridity. The rainy season usually commences towards the end of May. The maximum precipitation and frequency of thunder-storms is mentest from June till July and there is a second lesser miximum in September: whereas in Ausust, in the doy days, there is usually a minimum. The thunder stoms are mostl in the afternoon, whilst the monings and forenoons are clear. The pleasamest time of vear on the high platean is when the rains season ends in (he wher Lhite atumen follows with dry, fresh, clear days and continually Wue shics

The most characterintic cultivated plant of the platean is the maguey (Agare (2mmom lax the plan from which pulgue and ixte are made, and which is grown in lang parallef fow Fields planted with asaves are met with far in the "1 wh (W) the whole of the plate.m thick leased opuntias and cacti are frequents found, as well is receapalime belonging to the order liliaceae, and thom acacias These me all prichls phants and able to withstand long periods of drought. The magulicent sasines on swamp apresses (bisodium trees) hetray the presence of
running or ground-water. The Aztecs call them ahuehuetl, which means "Old man of the water".

Sudden changes in the landscape are only encountered in places where, at the edge of the high plateau overgrown with grass and sparse trees, the rivers and brooks plunge down deep gorges clad with thick green foliage. Sometimes the waterfalls are a hundred metres high. Many of them are used to-day for waterpower.

At the time of the diluvial glaciation of northern America the climate of the Mesa Central must have been cooler and at the same time have had a greater precipitation. Glacial striae, cirques, roches moutonnées, snow and glacier deposits are still to be found on the high volcanoes about a thousand metres below the present snow-line. Moraines are found as low as 3,800 metres on the Nevado de Toluca.

In cutting the "Canal del Desagüe" about $\mathfrak{j}$ o species of mammals belonging to the different diluvial strata were found: the lowest stratum contained fossilized bones of a large primitive horse, the upper ones hyena-like canidae, several felidae, the mammoth-like elephas colombi (spread all over Mexico in diluvial times), stags and antelopes. All these belonged mainly to a fauna of the Sonoran region, that is to say to the fauna of the northern steppes.

Lateritic soil under the recent sand-blown deposits, found for instance in San Luis Potosí, suggests greater precipitation in these times. So too does diluvial calcareous tufa, as well as the frequent occurrence of lacustre deposits in old lake basins that are now dry. Probably most of the large cares in the limestone mountains date from this period. The remains on the slopes of the mountains of the once extensive forests of the high plateau prove that the climate was formerly much moister.

The large northern border states Sonora, Chihuahua, Coahuila, together with Durango and Lower California, cover nearly the whole of present-day Mexico. But this bare northern district has only a small population. Settlements are chiefly in the mountains in connection with mines, along railways, and sometimes on the rivers along the banks of which cotton is grown and which flow into the salt-lakes ("lagunas") without exterior drainage of the bolsónes.

But to the south of Zacatecas and San Luis Potosi the broken surface of the country favoured the development of smaller states at a very early date. The damp climate, which was much more propitious to settlement, together with the great fertility of a volcanic soil, favoured a greater density of population. Besides this the states of Hidalgo and Mexico are the richest in gold. Hidalgo is the state that produces the most silver. The majority of the great towns and cultivated areas are situated at a height of about 1,900 to 2,000 metres. The highest and
most important valleys are those of Toluca ( 2,680 metres). Mexico ( 2,280 metres) and Puebla ( 2,360 metres). But agriculture is carried on as high as $3,2,50$ metres.

The soil is verv fertile where it does not consist of limestone or basalt but of volcanic tuffs Maize and beans, the two original food-stuffs of the people, as well as wheat and barley (introduced from Europe) grow annually without manuring and rotation. Besides native edible plants and fruits such as sweet potatoes, tomatoes and capsicums (the favourite spice). pears, apples, peaches. apricots and figs (introduced from Europe) all thrive here.

Un the high plateau, the native houses are built of adobe (sun-dried bricks). in contradistinction to the wooded Gulf coast where the walls are made of bamboo stems, whilst the steep roofs are covered with palm-leaves or grass. The ground-plan of these bamboo huts is mostly oval in the northern part of the Gulf coast, or rectangular in the southern part. In the villages the walls are sometimes plastered with clay and whitewashed. The "ranchos" often have hakehouses constructed of adobe or clay, sometimes also clay urn-shaped barns for maize, standing on stone socles and thatched with straw. The lower classes, especially the Indians, still live in the same sort of dwellings as in preColumbian times.

The ancient cultures of Mexico are concentrated on the high plateau in the region south of the Tropic of Cancer on the border towards the steppe, just as the pre-Incan culture attained to its highest development and Incan culture reached its greatest power of expansion on the highland of Peru and Bolivia in the southern border district of the tropical zone towards the Puna. The cultures of ancient. Mexico attained to the highest development in the northern bordering climates. Probably man has long lised in this part as a hunter and made use of fire and neolithic weapons and implements.

Following a most ancient culture with earthenware figures of a very primitive style (productions of the Otomi Indians and kindred tribes), we find to the north of the present capital the development of a first archaic art of a rery original culture (perhaps never superseded in later times) and whose founders were the Toltecs, a Nahua tribe surrounded with methical legends and coming from the nowth. The existence of the flourishing empire of Tollan. erected by a first Quetaleonat, whowas both priest and king, is proved by the ruins in Tula, as well as those of Teotihuacan and other places. Earthenware ressels and figures of the Tentihucan tupe are found nean Azcapotzalco, San Miguel Amantla and wher place in the high valley of Mexion: Lurther at Pucha, Tlaxcala, Pamuco, ete. Thus we mas presume that the culture of this ancient empire once included the whole of the eastern area of the hish platean and a large part of the neighbouring comsal slope, of an least exercised consteratle intluence in these parts. According to Fray Bernardeno de Sohazun, is Whaller Lehman tells us, the ancient Toltee Fimpre whatreaty destoned at the end of the ent centurs A. D. The Olmes. a tomen race, commbured larects to the downfall But ancient Toltec culture rovied once more with Cholula as the cente and trading cits. Teotihnatan
and Tollan, however, and probably Cholula, were already ruins when the Spaniards arrived. In the $I^{\text {th }}$ century A. D. the Young-Toltecs emigrated under the leadership of Quetzalcomatl-ce Acatl to the countries of the Atlantic and Pacific coasts, to Tabasco and Soconusco. Mention is made in documents that the young Toltec dispersal had been hastened by famine; a phenomenon that is not unusual in climatic border-lands.

According to Walter Lehmann the calendar of the old Toltecs was based on a lunar "Weltanschauung", whereas Cholula became the intellectual centre of a reform of the old religious system, and the sun was the centre of their "Weltanschauung". This found its expression in the reform of the calendar.

Mexican culture had spread in successive waves from the high plateau districts to the lowlands. Thus we find names of villages and ranchos in an ancient Nahua dialect in the district of the Rio Pánuco. For instance, the Pipils of Guatemala and Salvador and the now extinct Nicarao of Nicaragua, who spoke ancient Nahua dialects, are descendants of the Toltecs. It becomes evident that during these migrations older pre-Mexican tribes were partly scattered and partly squeezed into enclaves. This explains the patchwork appearance of the peoples and fractions of peoples which strikes us when looking at a map of languages still spoken in Mexico.

It is possible that, contemporaneously with the flourishing period of older cultures on the Mexican plateau, the old Maya peoples, who had long been living round the border-district of Chiapas and Guatemala, developed at the same time. Palenque, Ococingo, Piedres Negras, Menché, Tikal, Quirigua and Copán were ancient cities here, and with the exception of the first two, were all situated in Guatemala and Honduras. Of these cities Palenque is said to be the first to have been abandoned. On the arrival of the Spaniards all these once so flourishing settlements belonged already to the past.

The Maya culture also had its renaissance, as for instance, within the confines of the Yucatan peninsula where there is one set of ruins next to the other, and where ancient American architecture reached the zenith of its development. Known places here are Uxmal, Kabah, Labná, Sayí, Tulum and Akanceh. There is a report that in the pre-Spanish epoch Nahuas (Itza) had penetrated into Yucatan under a leader named Kukulcan (Quetzalcouatl). Cities like Chich'en Itza and Mayapán may be considered as mainly Toltecan settlements both according to tradition and archaeological discoveries. The Quetzalcouatl façades of the Yucatan edifices, the Chich'en Itza feather-snake columns and the strange semi-recumbent Chaac-Mol figures (libation vessels) point emphatically to Toltecan influence. History tells us further that Mayapán was destroyed (circa 1450 A . D.) by a Mava rising. After the destruction of Mayapán the old Indian culture of Yucatan decayed, and where once numerous large cities and mutually united principalities flourished, the Spanish conquerors only found small communities at war with each other.

All these ancient cultures cannot be conceived without agriculture, the basis
of which throughout the whole of Mexi:o was the cuitivation of maize. The wild original maize-plant (Euchluena luxurians), known as teosinte, is native to the Pacific coast of Guatemala. Whereas a group of plants such as manioc are characteristic of the damp Atlantic virgin-forest districts of America, maize, in spite of its adaptability, is chiefly confined to the dry and higher parts of Mexico. Nowadavs the two states of Jalisco and Zacatecas supply half the annual maize crops. In Mexico and Central America the growth of the ancient state and its development to a really high culture is limited to the arid districts where maize is cultivated

In the old times it was chiefly the temples that were built of stone. An elevated position was preferred for sacred spots and the buildings belonging to them. Thus one found on the Gulf coast in the Huaxteca country roughly hewn stone sculptures of which some may have stood in the wooden sanctuaries as well as in important parts of the settlements on artificial earth mounds which were only surrounded by walls where suitable stone slabs were ready at hand. But on the Mexican high plateau, as well as in Chiapas, Guatemala and Yucatan the stone cella like sanctuaries or other temple buildings rose from the platforms of step pyramids. Other edifices were on terrace-like substructures of which many were orientated so as to coincide with the cardinal points. These step-pyramids erected over stone heaps and earth mounds stood in roomy courtvards with numerous out buildings and were often of huge dimensions. In front of the main temple in Mexico City there was King Tizoc's ("Tlacktemalacatl") great sacrificial stone. The sacificial receptacle ("quauhxicalli") to catch the blood of the sacrifice also belonged to the ceremonial vessels. Within the Mexican temple prounds is also the sacred ball-court ("tlachtl") dedicated to the gods However, such a court is lacking in Teotihuacan, but there is one, for instance, in (hicheen Itza The ball-game, in which a rubber ball ("olli") was used, was much in rofice in the sphere of Mexican culture and was played by the people.

Among the sigantic ruins of Teothuacan, the two stone-cased moundsknown is the ".". "nn" and "Sun" pyramids are particularly conspicuous, whilst quite recentls a Quctalentatl temple with rich sculptures was freed from its vegetation and dehris in the so called "Ciudadela" situated on the southern side of the Ris Son Juan.

The pramid of Cholula covers the greatest area. To doy a church dating from the Spanish colonial period stands on its crest. An ancient trade route led ita Choluta, the celchrated centere of the (luetzalcomatl cult, and also that of thate, and tamous for excellent ceramics and other products of flourishing arts and ants This rome extended in anditu wicalanco fon the Boca de Terminos near the bonder of the Vlasa district) and in anzhure avotlan the coastal strip of Socomuse, which is now celebrated for its cocontree plammans. The pramed of Aocheaten nean Cuemasaca diflers from those on the high platean apecialls ho seasem of cotediturm dis sumbels and the emplosment of a line is a symbol of the fisure $;$ las was especiatly the custom on Maya monuments.
of a certain period). The pyramids in the Tzapotec country, as for instance those crowning a hill 300 metres high at the foot of Monte Alban, and the edifices of Mitla near Oaxaca, famous for their mosaics, frescos and columns belong to the pre-Aztec period. The pyramid of ElTajin near Papantla in the Totanac region in the State of Vera Cruz, the steps of which are interrupted by numerous niches, is also pre-Aztec. The pyramid of Huexotla (Hidalgo), Castillo de Teayo (Vera Cruz) and the pyramid of Tepozlan (D.F.) which stands high on a hill over the present town may be mentioned as examples of Aztec temple pyramids in small provincial towns.

The edifices of the Maya in Yucatan were technically the most perfect. It was here that the sacrarium was further developed. It contained two long corridorlike spaces which were covered with a sort of vaulting constructed of layers of steep stone slabs each projecting over the other. "The front corridor opens onto a columned gallery towards the steps, the back corridor contains a special small cella with the idols. The upper vertical façade is decorated with rich "Baroque" ornaments cut in limestone blocks with fantastic masks of gods " (W. Krickeberg.)

The Aztecs or, in the narrower sense of the word, the Mexicans (the Mexica) were the heirs of Toltec culture on the Mexican high plateau. They traced their origin, especially the inhabitants of Tetzcoco, from the Chichimecs. The Aztecs traced their name back to a legendary home ("aztlan"). Like the Toltecs they had migrated from the north. From a philological point of view the Nahuatispeaking Aztecs (belonging to the group of the Nahuatlacan-speaking tribes), as well as the Nahuat-speaking Toltecs belong to the Sonoran linguistic stock who spread far to the north-west and across the frontier of Mexico. According to traditions the foundation of Mexico-Tenochtitlan dates back to the year 132 jA.D. But in ancient times Colhuacan was the metropolis of Mexico-Tenochtitlan.

The view of this city must have been beautiful beyond description, situated as it was in the salt-lake of Tetzcoco. Like Venice it was intersected by numerous canals and built on dams and sand-islands surrounded by wooden piles. Where the cathedral now stands the step-pyramid rose in five steep terraces. Its base was square; its sides are said to have had a length of $37 \%$ feet. It was only built in 1487. It contained a cella for each of the two gods Uitzilopochtli (the real Aztec national or war-god) and for the rain-god Tlaloc. The king and princes lived in extensive palaces. The life of the people was chiefly concentrated in the market near the main temple. It is said that when Cortes entered the city on the 8 th of November 1519 A. D. the inhabitants numbered 300,000 . That is about one-third of the present population.

In some respects the Aztec state was a military monarchy with extensive organizations of political and religious bodies. But even the high valley of Mexico was not a unified state. There were three leading principalities: Tenochtitlan. Tetzcoco and Tlacopan which were held together by an offensive and defensive alliance, in which, however, Tenochtitlan predominated. The neighbouring Tlaxcala was a free state. The important nation of the Tarascans, an ancient
tribe with a distinct language and inhabiting Michoacan far to the west, had remained independent of Aztec rule. The advance of Cortés, only successful because of the help of the Totonacs and Tlaxcaltecs, shows us how the different tribes quarrelled. But in contradistinction to the conditions in Yucatan, the Aztec empire, which was hardly two centuries old, was at the time of the Spanish conquest still in full possession of its power, although governed by Montezuma II, (Motecuzoma) an irresolute and melancholy monarch. Under the powerful rulers of ancient times, especially of Motecuzoma I. and his successors, many cities and districts belonging to numerous neighbouring tribes were successfully subjugated by the Aztecs. Of this we have information, especially from the important hieroglyphics in the Codex Mendoza, both as to the conquests and important cultural tributes. About $; 0$ years before the arrival of Cortés, the Aztec empire had extended to the Gulf of Mexico. The subjugated countries were not incorporated, but fortresses and garrisons were established to levy tribute. The destruction of so many antiquities and cultural monuments in the Totonac district of Vera Cruz, as well as the replacing of ancient place-names by Aztec designations bear eloquent witness to the methods employed by these conquerors.

According to Walter Lehmann the Aztec language was equal to all the requirements of a powerful empire in contradistinction to the many other phonetically and grammatically complicated Indian languages. For many years Aztec also served as the official language during the Spanish colonial period.

To the south of the capital, on the fresh-water lake of Xochimilco, Aztec gardens are still extant which are called by the misnomer "swimming gardens". The very fertile black soil was drained by canals of various width and the vege-table-plots enclosed by stakes and trellis work. Such enclosed plots were called "chinampas".

If we enquire what was the chief difference between ancient American and Furopean culture we shall find that iron, domestic animals (with the exception of the turkey). vehicles, wheels, the potter's wheel and firearms were unknown. In architecture the vaulted arch was also unknown. Gold and silver were emploved, as well as copper: the latter partly for bron\%c. The land was cleared and stone was hewn with stone or metal implements. The Huaxtecans and Totonacs on the Gulf of Mexico cultivated cotton and wove fine shawls and garments of it. Particularly in Tabasco, but also on the Mexican high plateau. rets fine work was executed in birds leathers. The Olmees on the Atlantic const to the sonth of Vera Crum derived their name from caoutchouc (olli) which they emplowed tor various purposes. Milk, butter and cheese were unknown as food. Honey was used instead of sugar, and bee keeping is still extensively atred on in the comery. The use and development of hieroglyphies and the development of the calendar system raised the Mexican Central American sphere of culture far ahove that of the other advanced Amerinds.

If was onls since the Spanish colonization that European domestic animals were introduced. above all the horse, horned catte, sheep and goats. The

Spaniards were the first to mine silver, mostly by surface-mining. The hammock, which is now so largely used in Yucatan and the Isthmus, is said to have been introduced by the Spaniards into Mexico from South America via the Antilles. History in America as written in Europe is only met with since the beginning of the $16^{\text {th }}$ century.

The Roman Catholic Church set foot in Mexico with the Spanish conquerors. Franciscan monks were the first teachers, the first historians and the first protectors of the ill-treated unfortunate natives. The number of Spanish Baroque churches, chapels, monasteries, schools, noblemen's seats and buildings on Spanish haciendas was very great. The aqueducts with their towers and bridges are striking. Handicrafts flourished in the cities where each had its own quarters. According to historical records a German, a pupil of Gutenberg, is said to have introduced the art of printing into Spanish Mexico and also to have published a newspaper.

The oldest church is in Tlaxcala. It dates from the year 1521 . The church of Titzatlan near Tlaxcala is also very old, and unique in its restrained Renaissance style. The atrium of the cathedral in the capital dates from the year 1525 . The main façade was only completed in $166 \%$. The greatest of the Mexican churches visited by pilgrims was erected in 1532 in Guadeloupe Hidalgo near the steep rock of "Tepeyacac". The city of Puebla, which for many centuries was to be the trading centre between Spain and Mexico, was founded in the same year. It is the town with the most churches, and where the art of making glazed tiles ("azulejos"), introduced from Spain, developed. The ecclesiastical and secular subjugation of the north from Mexico to California and of the coastal strip on the Gulf of Mexico proceeded from the capital and the high plateau. One of the oldest churches in the Mexican Gulf region, built in ${ }^{1749}$, is in Altamira, north of Tampico, a place from which a long-established salt trade was carried on up the Rio Pánuco, and southwards to the Huaxteca by the Huaxtec Indians.

Five governors and sixty-two viceroys have ruled Mexico. It is characteristic of these times that about a third of the silver circulating in Europe in the $18^{\text {th }}$ and $19^{\text {th }}$ centuries came from Mexican mines. Spanish rule lasted three centuries. During the last years of its decline, Alexander von Humboldt visited Mexico ( $1803 / 4$ ). This was an epoch-making journey, and it is remarkable that no diaries of the great German explorer are known of this journey. Dissension in connection with the Spanish succession and the example of the secession of the United States from England led in 1810 to the outbreak of the struggle for independence. The idea was favoured by the Viceroy himself, but it had its roots in the people. Miguel Hidalgo $y$ Costilla, who was 57 at the time, and curate of the village Dolores in Guanajuato, became the leader of the movement and rang
the bells as a siznal of revolt on the night of $15^{\text {th }}$ September and placed himself at the head of the movement. The idea of freedom, which was also enthusiastically greeted by the Indians. was never given up. Hidalgo himself, however, had to retreat before the superior forces of Spanish troops and was captured and shot in 1811, after numerous battles, together with the priest Morelos. In 1820 General Iturbide put himself at the head of the revolutionary movement. He first fought on the side of Spain and then on that of the revolutionaries and proclaimed the independence of Mexico in 1821 .

Violent political struggles kept the country in a turmoil, and in addition to the internal troubles war broke out with the United States which ended with the loss of Texas ( 1845 ) and California and New Mexico (1846). In $18 \not \boldsymbol{f}^{8}$ the Rin Grande del Norte was established as the northern frontier of Mexico. The gifted Benito Juarez, a man of indomitable energy, born as a poor Indian in a little village in Oaxaca, stepped to the front. He was victorious in the armed struggle against the church ( $1855-61$ ), reformed the laws and finally survived as president of the Republic the disastrous intervention of Napoleon III. who, together with Maximilian of Austria, wanted to erect a Mexican empire in 1867. Numerous urban gardens and decorations in the castle of Chapultepec, the royal seat of Mexico, date from this French period.

Benito Juarez died in $18 / 2$. New troubles arose. They were put an end to by Generd Porfirio Diaz, Mexico's greatest statesman, who had already retaken the capital from the French in 1867 , and who became president in 18.77. $H$ is the real originator of the social and economic reforms and public education.

During the thirty-three years of peace under this both intellectually and morally eminent man economic conditions reached their highest development. The invest ment of European capital, especially English and, later on, American gradually increased. The extension of the railway system took place during the years 18 g 0 to 1910, as well as the completion of several harbour works, namely those of the town of Vera Cruz. which was formerly protected from attacks by sea by the fortress of San Juan de Ulua.

Numerous modern public and private buildings in the capital, as well as in all the cities of Mexico, were erected in this period, and further the new quarters such as Colonia Roma and Juarez in the capital and the garden cities. The lons projected sanitary works and draining of the capital were finally completed in 1gon under Penfirio Liaz by the construction of the "Canal del Desagüe". which is chirts miles long, as well as the "Tunel de Tequixquiac". In 190 en Mexito (iit had 500,000 inhahtiants. To day with over $1,000,000$ souls, it is the largest of all highland towns of the new world, being situated at an altude of 2.240 metres above rea-lerel.

The arand fetes in celebration of Mexican independence in 1910 marked the most shorious exent in Pofirion Dial term of office. The same sear saw the sudden end of this ereat period of development. With the Madero and later the Camamas tevolutions in the north began a period of 15 years of intense
unrest and social upheavals which were only possible in times of violent dissension and war between the European peoples themselves. During these years of heay losses of foreign capital and of the growing influence of the United States only the oil districts on the Gulf coast, the centre of which is Tampico, were economically prosperous. This period of prosperity started at the end of 1910 with the bringing up of the two gushers Potrero del Llano No. 4 (belonging to W. D. Pearson the constructor of the harbour-works on the Gulf coast) and Juan Casiano Nos. 6 and 7 (belonging to the American E. L. Doheny) which suddenly established Mexico's reputation as an oil country. To-day petroleum is by far the most important item in the revenues of the state.

In 1917 the new constitution came into force under President Carranza, whose merit it was to have kept Mexico politically neutral during the Great War.

Mexico's favour is much sought after as a supplier of raw material. This country with, it is said, a population to-day of $1 ; /$ million inhabitants holds the first place in the production of silver, the second in oil and lead, the fourth in gold and the fifth in copper. Other metals exported are: zinc, mercury, arsenic, antimony, molybdenum and tin. Other exports, besides petroleum, are graphite and semi-precious stones. Mexico has no coal. But there is enough lignite, iron and waterpower for home consumption. The chief agricultural exports are cotton, sisal hemp, tobacco, sugar, coffee, cocoa, vanilla, precious woods and dye-woods and tropical fruits. As home industry is not much developed, finished goods are chiefly imported.

Viexico's great wealth is intimately connected with the geological structure of the country. Most of the mountain ranges are built up of a thick series of folded limestone banks intruded in the period of mountain-building br magmatic rocks which brought up the ores from the bowels of the earth. Laccolithes (of diorites and syenites) and dome-shaped masses (of porphyries), in the contact zones of which the most copper ores are found. form the nuclei of the anticlines and folds. On the southern and western part of the Mexican High Plateau, the older eruptive rocks, the andesites, are especially met with as pipe-fillings and laras. The gold and silver ores are connected with these older effusive rocks. The greatest ore-vein, near Pachuca, is 16 kilometres long. and the most extensive silver-lode, the Beta Madre of Guanajuato, often $1 \equiv 0$ metres wide, is many kilometres long. Under the silver-bearing rocks. in deeper zones. veins of galena and zincblend occur. Ther are also spread over the limestone mass even some distance from the intrusive body. In the tertiary period. on the western side of the high plateau, especially in the Sierra Madre Occidental. streams of fresh volcanic lara poured out again and again along the fractures and faults over the already eroded and buried folded limestone ranges. The obsidian, of which the Indians made their skilfully shaped sacrificial knives, spears and arrow-heads. is a glassy species of this most acid of lavas. Where in the most recent geological epoch effusive activity was limited to single areas, such as on the southern edge
of the high plateau, great crater volcanoes were thrown up. Hot mineral springs are the last traces of this volcanism on the high plateau. Both on the Atlantic and Pacific coast effussive rocks are basalts. The famous oil-pools of the oil-fields north and south of the Pánuco River valley are secondary accumulations of the precious liquid in cavities of the limestone banks which are closely shut off from the surface bry a gently folded series of impermeable marls. The limestone masses are also excellent water reservoirs. Numerous fresh-water springs flow from the rock at the foot of the Sierra Madre Oriental. Where there is gypsum in deeper parts of the limestone series, the water comes up as a sulphur spring.

On Mexican soil the folded North American mountain-ranges, which originated somewhat earlier towards the end of the cretaceous period, are replaced by the Central American arcs thrown up in the tertiary period. The shape and contour of the Mexican land mass resulted from the interaction of these different mountain-building movements. The uplift of the Mesa Central is a consequence of this crucial.folding, and is the cause of the tempering of the tropical climate.

Dr. Walther Staub

## INDEX OF NAMES AND PLACES

Acambaro 186
Acatepec 134
Ajusco 99
Amecameca 101, 104-113, 120
Antigua (Vera Cruz) 6, 7
Archeological photographs 22, $42-53,138,15+-157,172$, $173,242,243,248-253$
Atlixio 137
Atoyac 8-11
Cacahuamilpa (Guerrero) 168, 169
Campeche 254-256
CastillodeTeayo(VeraCruz)242
Chalchicomula 20, 21
Chapultepec 38, 40, 41
Chich'enitzá (Yucatan) $248 \quad 250$
Chihuahua 228, 229
Cholula 138, 139
Churubusco 64, 65
Cihuapam (Vera Cruz) 247
Colima 178, 179
Cuernavaca 162-166
Cuicatlan 143
Desierto de los Leones 69-71
Guadalajara 188
Guadelupe Hidalgo 26, 30, 31
Guanajuato 218, 219
Guayamas (Sonora) 210
Guerrero 177
Guiaroo near Mitla 156
Huaxteca Indian (Vera Cruz) 238
Huixquilucan 103
Jalapa 13
Isla de las Mugeres (Yucatan) 251
Juanacatlán 182
Ixtacalco 78
Iztaccihuatl 98, 105, 109, 113, $114,117,119,121-127$

Kivic (Yucatan) 253

La Caldera 96, 97
La Cañada D F. 72, 73
Laguna del Carmen 2
Lake Chapala 190-195
Las Canoas 231
Los Remedios 54, 55
Lower California 209
Magdalena (Sonora) 208
Manzanillo 207
Mazatlán 204-206
Mexico City $27-29,32-38$, 40-45
Mirador 232
Mitla 154-157
Mixtecalala 145
Morelia 187, 189
National Park 69-71
Necaxa (Puebla) 244
Nonoalco 66
Oaxaca 144, 146-153
Ocotlán 183
Oinetusco 100
Orizaba 14
Ozumba 102
Pánuco River 239
Pátzcuaro 196-201
Peak of Orizaba 1, 16-19
Popocatepetl 98, 104, 107, 112,
$115,116,118,125-129$
Puebla 130-135
Querrétaro 216
Salina Cruz 159
San Andrés de Tustla $2+6$
San Angel 62, 67, 68
San Bartolito 74, 75
San Estéban 59-61
San Juan Teotihuacan 46-53
San Luis Potosi 225
Santa Catarina D. F. 96

Santiago D. F. 76
Sierra Madre Oriental 230
Sierra Negra (Puebla) 16

Tacuba 58
Tamasopo Cañon 231, 233-237
Taxco 174,175
Tehuantepec 158, 160
Teocelo 15
Tepeapa 136
Терераm 80-83
Tepozotlán 56,57
Tepoztlan (Morelos) 167, 170, 171
Tetzcoco 24
Tetzcotzirgo 22
Tlacopan 63
Thalıuac 90
Tlalpan D. F. 39
Tlaxcala 23
Toluca 212-215
Tonilit. 180

Uruapam 202, 203
Uxmal 252
Photographs of Vegetation 6, 7, $1012,17,25,40,41,69,76$, $77,84,93,100,145,160,184$, 190, 208-211.215, 231-237, 240, 241, 247
Vera Cruz 3-5, 12
Viga Canal 86
Photographs of Volcanoes 18, 96-99, 116, 118, 125-129, $178,179,181,212,213$

Xicotepee 245
Xochicalio 172, 173
Xochimilco 87-89

Zacatecas 223, 224
Zapotitlan 142
Zapotlán 181



Pico de Orizaba. Estado Puebla
Peak of Orizaba, State of Puebla

Pic von Orizaba. Staat Puebla


Ansemecer Laguna del Carmen Estado Campeche
Temmonto sula laguna del Carmen Siato d. Campeche


Panorama del puerto de Vera Cruz con castllo de San Juan



Los airededores de Vera Cruz. Buites
Surroundings of Vera Cruz Vultures

Umgegend von Vera Cruz Aasge er











Teocelo cerca de Jalapa. Teatro del terremoto de $1920 \quad$ Teccelo near Jalapa. Site of the earthquake of $19 R 0$

La Serra Negra vata desde el Pico de Orizaba. Estado Puebla The "Sierra Negra" seen from the Peak of Orizaba. State of Puebla



Pco de Orzaba Estado Puebla
Pccoa Opizaba Stato di Puebla


isan Andrá Chatchicomula Catado Puebin
San Andras Chatchiroing a sinte of puebla

Sinn Andras Chachecmuln Sinat Puebla


Chalchicomula con Pico de Orizaba
Chalchicomula with the Peak of Orizaba

Chalchicomula mit Pic von Orizaba


Tolscotsingen Hanam del Pey Necatmanicoyoll
Tefzcotzingo EBalth of King Necahualcoyoll

Teiscotinue land des Konigs Necntunicoyoll

Tlaxcala
tlaxcala
Lake Tetzcoco between Santa Isabel Tola and Guadalupe
Am See von Tetzcoco zwischen Santa isabel Tola und Guadalupe

Le bord du lac de Tetzcoco, entre Santa Isabel Tola st Guadalupe

Su lago ol Tetzcoco tra Santa lsabel Tola = Guadalupe


Localided de Deregrinale Guadalupe Hidalgo
Guadalupe Hidalgo luogo di pellegrinaggio

Capital Mejico. Vista parcial oriental


do ita alo ira



Gundnlupe tidnigo recension a in colina
Gundnlupe Midnlgo Asrent to the Mill of Teneyacac de Teneyncoc





Capilal MAj a Monagtorio Mercead
Mexra City Merend Mannsten

Mauniatade Maxiko Moatar Morced


Casa del tiempo colonial en la parte noreste de la capital House dating from the colonial period in the north-east of the Capital

atima valico Vejo nalio on in calla Cinco
ie Febrero
Moxed Civ Oindecurt in in
a fontiomen
anubtainul Mexikn Atartiof in ther strang Cincu un febero


Casa caracteristica en la parte antigua de la capital
Typical house in the ancient part of the cit
Typisches Haus im aiten Teil der Hauptsiadi




Capini Malio Pnrquen do Chmoultonon A ameda de loe Filamol e

rueato idilico en et narque to Chapultonee




Galmen de duritn de in doan Cay anzatr
Musm ria


Xochipill con mascara. Museo nacioral

Xochipili mit Maske. Nationalmuseum


San Jantrolliun A Pirnmide dmi Si
San Juan Teothuncan Pronmd of the Sun
onn Juar touttiun an Sinrienpyrammto


inri Juan Torsliun an framide do In Luma

[^0]ann Junn inuthuacan Mondpyramide



Ban Juan Teotimuncan Faculturna de Ins escalerna on In piramirla de Quetznicountl al contro de in Ciuctartain inchacin eccidental

San Junn Teothuncan Sculplures on the side San Junn Teotihuncan Sculptures on Quefanlcountl in the centre of the "Ciudndele West frome

[^1]Sari Junn Trolifuncân Sculoturea ornant les escoliorade la pyramide de Quetzalcouall. silube au centre de la Ciudndolo" Face ovegt


[^2]

San Junn reotinvecan Lscullures de piedra en a inchadn occidental de In fur Amide de Quetzal. counll, pirdmide al contro de in Ciudadela

San Juan Teotihuacan. Stone scultures on the west front of the Pyramid of Quetzaicountl in west front of the Pyramid "Ciudadele

San Juan Teofitumcan Siminakulpturnen an der Westront der Quetzalcnuall.Pyramide im Zentrum der "Ciudndele"

[^3]San Juan Teolimuacin Sculpturea ornani in nu centre de ia "Ciudadela


San Juan. Teotihuacan. Esculturas de piedra en a fachada occidental de la pirámide de Quetzalcouatl, pirámide al centro de la Ciudadela

San Juan Teotihuacan. Stone scultures on the west front of the Pyramid of Quetzalcuatl in the centre of the "Ciudadela"

San Juan Teotihuacán. Steinskulpturen an der Westront der Quetzalcouatl-Pyramide im Zentrum der "Ciudadela"

San Juan Teotihuacán. Sculture in pietra sul lato ovest della piramide di Quetzalcouatl nel centro della "Ciudadela"

San Juan Teotihuacan. Sculptures ornant le face ouest de la pyramide do Quetzalcouetl au centre de le "Ciudedela"


Ancient Spanish aqueduct of Los Ramedios


rinain cie terozntián

iglesie de Tepozotián


Tacutin
Tacuba



[^4]

San Esteban. Surroundings of Mexico City



Wn in pintormacom San Anyal D F
Piclurnsaue corner in San Angel O F

Malarie nor Winkel in San Angel D.F


[^5]



Nononico Lom alredajorna deo in conptal Míjico
Nonoalco Surroundings of Mexe

Nonoalco Umgegend der Hinuptatadt Mevk



Nationgiperk Dase-to de los Leones
Leones
Parc nationa Desiario de los Leores


Ruina de monasterio en el parque nacional.
Desierto de los Leones. Vista posterior

[^6]Rückensicht.
Desierto de los Leones.
Klosterruime im Nationalpark.


La Canarla Contropan D F
La Canade Contreras D F

La Cnnada Conireran D F



San Bartolito
San Bartalito


Santingo Cale de niden enenctarstica con
Snntingo Tydicd villnge street with ginnt cac:



Ixiacalco indian chldren washing D F
I incalro Hijos de indios lavando ropa D F
ixincalco Ind antrkinder beim Waschen


Cociendo tortillas de maiz.
Baking maize pancakes (Spanish "Tortilias") Beim Backen von Mais-Fladen (spanisch "Tortillas")

gaba vo trpenar
Churen of Teomper




Tiachlquaro chupando el pulque de una planta de agaves



Viga Cana







[^7]

jonain for x ehumilea
Church of Xochimilleo

Kurcher von Xochimilico


Xochimilco. Entrada a la Iglesla
Xochimilco. Ingresso alla chiesa


[^8]Santa Caterina a La Caldera. Vulcani spentl nal dintornl
di Mesico cilta

La Caldera. Erloschene Vulkane in der Umgegend der Hauptstedt Mexico
La Caldera. Extinct volcancos in the surroundings of Mexico City
La Celdera. Volcans éteints des environs de Mexico
La Celdera. Vulcano spento nel dintornl di Messico citte



Agave field in the surroundings of Ombtusco





Calle en Amecnmeca con viste por Popocalepnll



Camilla "Gundalupe" on al
Amecameca. "Guadalupe" Chapel on the Sncro Monto Sacro Monte

Amncnmacn Kapalle "Gundnlupe" nuf dem Sacro Monte


Popocatepett, visto desde el Sacro Monte
Popocatepetl seen from Sacro Monte

Popocetepetl vom Sacro Monte aus


Cnilla sobre el Sncro Monte Amecamecn
Chopel on the Sacro Monte Amecamece

Kapolle nul dom Sncro Monto Amecnmeca




Amecameca. Procesion por delante de la capilla del Sacro Monte Amecamece. Procession in front of the Chapel of the Sacro Monte


Popocatepell, virto desde Amecnmecn
Popocniepell. seen from Amecnmeca

Amecameca con Iztaccihuatl



frupcion del popocetepell, vieto desde Tiamncas
Eruplion of Popocatepell seen from Tlamacas

Austouch des Popocatepell von Tiamncas aus gesehen




Marcado en Amecameca


Izlaccihuatl, visto desde Amecameca
ztaccihuat von Amecameca aus

L'Iztaccihuatl visto da Amecameca


Tempanos de hielo en la cumbre del Iztacclhuetl


Vsla desco media altura dol iztaccinuati


Popocatepetl, visto desde la punta del izteccinuatl
Popocatepetl seen from the summit of Iztaccihuat
Popocatepetl von der Spitze der Iztaccihuatl aus



il cratar del f3opocniepetel
The crater of Popocatepell


Parte interior del crater del Popocatepetl antes de su erupcion en el ano de 1920 Interior of the Popocatepetl Crater befor its eruption in 1920
L'interno del cratere del Popocatepetl prima delleruziono nel 1920 L'intérieur du cratere du Popocatepett avant leruption de 1920


1thet $n$ (ay a dan a ghan do San Dirr ngo
Fuebla Chapel of the Church of Snnto Oom ngo

Weblo kapmin der kripe Smino Domingo



Pumbla Cash on in Avenirla 3 Oriente no 1
Puebla House in the Avenide 3 Oriente no 1

Puebla Haus in der Avenidn 3 Oriente No


Puebla. Fuente de San Miguel
Puebla. Well of St. Michael

Puebla. Brunnen des heiligen Michaol
Puebla La fontena di San Michele


Entranen to than atrium of Acnieper Church
i ngang :um Vorhol הの Krehe Acnlepm


Iglesia de San Francisco Vista anterior
Church of San Francisco. Front view
Kirche von San Francisco Vorderansicht

Tepeapa. Klosterruine
Tepespa. Ruina de Monasterio
Tepeape. Rovine di un convento





Enliring de Teliuncan con "pilocoreus Tetezo"
Selinas de Tehuncan with "Pilocereus Tetolzo"

Salinas de Tehuocan mit "pilocereus Teletzo"




Candelabrum cactus. Oaxaca

## Cactacie a candelabre Oaxaca



Oaxaca. visto desde San Juanico


*, n tre las or fornit
34ace riswara of si Dorningo


Oaxaca viejo patio en una casa español-
Oaxace Old cuurt in a Spallis hir...
Oaxace Alter Hot in spaniscriert ha
Oaxaca Anico cortile in una casa spagn= $z$
Oaxace Cour dune vellm macu e. $\Rightarrow=$


[^9]






naxaca Choza de indios
のaxara raparna तilendiani

Le rovne di Mila Stato di Oaxaca

Ruins of Mitla. State of Oaxaca

Gitemeranan atinrma ta reize Giemen


Vay intal ge Tahumieder







[^10]Cuernnvach Picturesque corme,


Cuernavaca. Vista parcial de la Catedra


Tepoztlan. Estado Morelos
Tepnztian Staat Morelos


[^11]Sinlocite caves of Cacanuemipa
Findo Gumerero

Troptatminhahimen von Cncahuamipn Sinat Guerreio


Cuevas de estalactitas de Cacahuamilpa.
Stalacite caves of Cacahuamilpa. State of Guerrero

Tropfsteınhöhlen von Cacahuamilpa. Staat Guerrero


Tepoztion Ruins of El Teoozteca:l Temple





Taxco


[^12]Masbahalier in anem Dorte
Recipienti di granone in un villaggio


Puente suspendido. Guerrero
Ponte sospeso. Guerrero


Volcan Colima antas de Ina ültimas erupciones
The Colima volcang before the last eruptions


Nevado de Colima Vista parcial
Nevado de Colima. Part view






[^13]
Colona de transporte en la parte interior del pals


Iglabin de A Arrbincu imindo Mehoacan
Church of AcAmbaro State of M choncen

Kirche von AcAmbaro Sthat Michonenn


Morelia. Die Kathedrale


Gundalnjarn



Orin dal bago Cl arna com nonves on llor
Shorn of Lake Chapala with blooming agnve

Ufer doa Chapala Sees mit bluhender Aqave


Ox-cart with disc wheels


El Lago de Chapala
is lago di Chapala


Il lago di Chapala


Pescadores del Lago de Chapala
Fischer vom Chapala-See

Pescatori del lago di Chapala


Laguna de Pátzcuaro. Isla Xanicho
Lago di Pátzcuaro. L'isola di Kanicho


Pátzcuaro. See
Laguna de Pétzcuaro
Lago di Pátzcuaro








F-lince Mazntian
Coast of Mazatian

Kuate von Mainllan

La costa di Manzanillo. Pollicani. Stato di Colima








Surroundings of Toluen
Lom nirededoran de Toluen


Vista de Queretaro con antigue tuberia de agua
Vedula di Querbiaro con I antico acquedotto





P'n huin Antiqua minn moprnoin
Pachuca Old Spanish mine


Calle por Pachuca
Road to Pachuca

Weg nach Pachuca




Zacntecas


San Luis de Potosi. La Catedral
San Luis Potosl. The Cathedral

San Luis Potosf. Die Kathedrale




Catm 1 a be Clillominua
Cntiondin af Chimunturn



Simira Matere Orionith anter Moneney y Saltillo
Sierra Madre Opiental between Moninrey and Salkllo

Sierin Madre Orimital zwischan Montarny und Sall llo



UBragua coicen de Mirndor
Panorarrin de llermala virgen
Virgin forest near Mirador




Tamasopo. Palmar
Tamasopo. Palm forest


Paisaje de palmas
Tamasopo.




Panorama de rlo con árbol Celba. Estado Vera Cruz
Shore scene with celba tree. State of Vera Cruz

Uferbild mit Ceiba-Baum. Staat Vera Cruz


Canalio don Tanver thacto Vara Ceuz
pirarrida nalaca

Cashillo de Teayo Sinin of Vara Cruz azlec puramid


El Tajln cerca de Papantla. Estedo Vera Cruz. Plrémide totonaca El Tajln near Pepantia. State of Vera Cruz. Totonac pyramid


Sallo da ngun de Nacarn ivindo Puebin
Watarinil of Necake Stata of Puebla



Cihuaparn. Chozas de obreros


Rulns of Chichienitzá. Yucatán. "Las Monjas
Ruines de Chichienltzá. Yucatán, "Las Monjes"


Fiulrana de Clirrioriliza Yuralan Templn
Puins of Chichenitza Yucaldn. Temple on
Puing of ChichenitzA Yuchlan.
inn EBall Game grounde

Ruinan von Chichanitá Yuentan Tempal am tanllsplelplatz



Unrrial. Yiucntan Vain Intarior de Ina rulnas
Uxmal Yucmian. Intertor of the ruins

Uamal. Yucatinn. Innennnalchi aus den Ruinen



Campeche. Roed to Lerma
Cempêche. Chemin condulsant à Lerma
Campeche. Weg nach Lerma
Campeche. Calle por Lerma
Campeche. La via di Lerma


$$
1
$$

## ~


[^0]:    Gan Juan Taolihuacan Pyramid of lles Moon

[^1]:    *hulpluron der Trmpperiwnigen an fler Qunizalcountl purnmise im ionirum der "Ciudadela" Westront

[^2]:    San Juan Teotihuacan. Vlew of the Terraces of the "Ciudadela
    Blick in die Terrassenanlagen der "Ciudadela"
    Veduta sulle terrazze della "Ciudadela'
    San Juan Teotihuacán. Vista a las terrazas de la Ciudadela

[^3]:    Sman Juan Teotimuncan Scultura in dietra sul Iato oveal della piramide di Queiznicounti nel centro dallm "Ciudadala

[^4]:    San Estéban. Umgegend der Hauptstadt Moxiko

    San Esteban. Dintorni della capitale

[^5]:    Tlacopan. Los alrededores de la capital Mójico

[^6]:    Rovine di un convento nel Parco Nazionale.
    Desierto de los Leones. Lato posteriore.
    0830150
    Ruines dun couvent au Parc national.
    de los Leones. Vue de derriere

[^7]:    Xochimilico con los asl llamados "Jardinas flotantes"

[^8]:    Santa Catarina y La Caidara Voleanas apagados on los
    orededoras de la caplal Mejico

[^9]:    am Matala manmoln

[^10]:    Cunrmanvaca kinct miniornaco

[^11]:    Cumves de mainiaching de Cncahuamilon

[^12]:    Recipiente de maiz en una aldea

[^13]:    Una carretnra en las Montañas de Majico

