

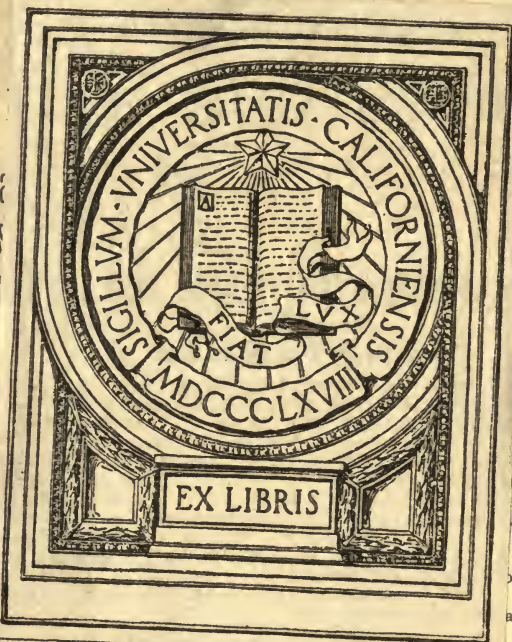
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CONTAINING THE

Names and Post-Office Addresses of all Merchants, Manufacturers and Professional Men in the Territory of Arizona ;

TERRITORIAL, COUNTY, CITY AND TOWN OFFICERS.

A DESCRIPTION OF THE DIFFERENT MINING DISTRICTS AND THE NAMES OF MINING SUPERINTENDENTS.

ALSO, A

GAZETTEER OF THE COUNTIES, CITIES AND TOWNS,

Giving a full exhibit of their Mineral, Agricultural and Manufacturing Resources.

WITH AN APPENDIX,

CONTAINING THE NAMES AND ADDRESSES OF WHOLESALE MERCHANTS AND MANUFACTURERS IN THE CITY OF SAN FRANCISCO.

W. C. DISTURNELL,

COMPILER AND PUBLISHER,

534 California Street, San Francisco, Cal.

BACON & COMPANY, PRINTERS.

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P R E F A C E .

The compiler presents this work to the public with a feeling of confidence that a perusal of its pages will convince his patrons, and others interested in its contents, that no efforts have been spared to make it complete and reliable. In an entirely new field, such as is embraced in this volume, there are difficulties to contend with, not encountered in older portions of the Union. Among others, the want of reliable sources from which to obtain information needed, particularly in isolated and sparsely-settled sections, and also the indifference manifested by some to furnish information applied for; which, in view of the great benefit works of this character are to new countries, by making known to the world their resources, and thereby accelerating immigration, ought to be given with alacrity. With proper efforts, however, these obstacles can, to a certain extent, be overcome; and the compiler believes that he has so far succeeded as to be able to present a work which, for completeness and accuracy, will compare favorably with those of a similar character published in other sections of the Union.

In conclusion, he would express his obligations to all who assisted him while engaged in collecting the necessary data and compiling the work: especially to Major Ben C. Truman, for the use of valuable information gathered during his travels in Arizona, and other courtesies extended; to the editors of the various journals throughout the Territory, for many favors and the interest manifested by them in the success of the enterprise; and to Myron Angel, Esq., of San Francisco, for important contributions. His thanks are also due to the numerous patrons of the work, for their liberal support; to John Wasson, Esq., Surveyor-General, and C. P. Dake, Esq., U. S. Marshal, for official data; and to Messrs. Bacon & Co., the printers of the volume, for its neat typographical appearance.

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ARIZONA :

Its Topography, Climate, and Resources.

Arizona is bounded on the north by Utah and a small portion of Nevada, on the east by New Mexico, on the south by the Mexican Republic, and on the west by the States of California and Nevada. It extends from one hundred and nine degrees to one hundred and fourteen degrees and twenty-five minutes west longitude, and from thirty-one degrees and thirty-seven minutes to thirty-seven degrees north latitude, being about three hundred and twenty-five miles square. The estimated area is 111,950 square miles, or about 72,000,000 acres.

Since the conquest of Mexico by the Spaniards, the Territory of Arizona has been claimed first by Spain, and then by Mexico, till recent events gave it to the Great Republic. As early as 1540 an expedition was sent by the Viceroy of Spain to examine and take possession of the country. That expedition found the Territory inhabited by Indian races of great difference in character. A portion of them lived in towns, built houses of stone or dried brick, cultivated the soil, and constructed irrigating canals, which required considerable engineering skill. Ruins were found by the first explorers, which indicated that at some previous time a still higher state of civilization had existed. The large quantity of broken earthenware found at wide distances strewn over the country, the mounds of the Salt River Valley which appear to be remains of buildings similar to Casa Grande, the extensive ruins on the San Pedro, Rio Verde, Colorado Chiquito, and other places, are generally believed to be the remains of a people who existed here before any of the present Indian races. However that may be, it is certain that the Spanish found here the Papagoes, the Moquis, Zunis, and other pueblo Indians, who tilled the soil, and followed other pursuits in which only people of considerable civilization occupy themselves. They also found savage tribes like the Apaches and Navahoes, who were constantly making raids upon the peaceful natives, and who for a period of over three hundred years kept up an incessant warfare with the whites who settled in the Territory. In 1848, by the Treaty of Guadalupe Hidalgo, all the Territory north of the Gila River then forming a

part of New Mexico was ceded to the United States. The Territory between the Gila and the present Mexican boundary was acquired in 1853 through the Gadsden Purchase. It might be questioned whether we should not have purchased the Territory from the Apache chief, Cachise, as he had perhaps the best title. These Indians had at this time succeeded in driving the Mexicans out of the country, only one place remaining in their possession—Tucson, a hamlet or mission of two or three hundred inhabitants. The United States Boundary Commission commenced its work in 1850, and its valuable reports furnish our first reliable information of the country north of the Gila. This was followed by a Pacific Railroad survey on parallel thirty-two. Several other explorations and surveys were executed within a few years. To protect these surveys, the government had stationed in various places a considerable number of troops, who had, to some extent, checked the Apaches. In 1857 a line of stages was started between San Antonio and San Diego. In 1858 the service on this line was made semi-weekly, and it received six hundred thousand dollars per year from the government for carrying the mail. The time from San Francisco to St. Louis was twenty-two days.

The Great Rebellion broke out in 1861, and up to this time slow but sure progress had been making in the Territory. Several new mining camps had been established, and some American machinery introduced. The rebellion checked and destroyed all this improvement. The Federal troops who were not taken prisoners by Texan rebels abandoned the country. The stage line was discontinued. The citizens and traders, managers and workmen of the various mines all hurried to leave the Territory. The Apaches fell upon them along the highways and murdered many. The gambrinos from Sonora rushed in and plundered the mines, and broke the machinery. In 1863 Cachise, the Apache chief, boasted that he had conquered the Americans. On the 24th of February, 1863, Congress passed the act forming the Territory of Arizona. The Territory then segregated from New Mexico was about 126,000 square miles. During the year 1866 an area embracing 12,225 square miles of the northwestern portion, was by an act of Congress, given to the State of Nevada. In 1864 the Territorial Government was located at Prescott, and constituted as follows: Governor, John N. Goodwin; Secretary, R. C. McCormick; Chief Justice, W. F. Turner; Associate Justices, William T. Howell and Joseph A. Allyn; District Attorney, Almon Gage; Surveyor-General, Levi Bashford; Marshal, Milton P. Duffield; Superintendent of Indian Affairs, Charles D. Poston. The population at this time, exclusive of Indians, was only 600, but soon commenced to steadily increase, notwithstanding the unsettled condition of affairs arising out of struggles with Mexican gambrinos or mine robbers, and with the savages whom two years of success had rendered bold and defiant. Soon after the

L. BASHFORD & CO., PRESCOTT, A. T., GENERAL MERCHANDISE.

organization of the Territory, Gen. O. O. Howard was appointed special Indian Commissioner, and General Crook was given command of the troops sent against the savages. He defeated the Apaches and Hualapais in several actions, and brought Cachise to terms. All the savage tribes were then placed on reservations where they are now kept under control, and no further trouble from them is anticipated. In 1872 the white population had increased to 10,743. From 1857 to 1861 many gold and silver mines had been discovered in the central portion of the Territory, the fame of which, now that affairs had become settled, began to attract prospectors from different sections, and the discovery of the Silver King, Stonewall Jackson, and other wonderfully rich mines in 1875, gave a still greater impetus to mining operations. The discovery of the Tombstone mines followed in 1877. In 1880 the Southern Pacific Railroad reached Tucson from the west, and in March, 1881, the Atchison, Topeka and Santa Fé Railroad from the east formed a junction with the Southern Pacific at Deming, New Mexico, thus affording easy access from the Atlantic and Pacific States to this far-off and hitherto isolated section. The completion of these roads has resulted in a great increase of immigration, bringing capital and labor to assist in the development of the vast mineral resources of the Territory. The opportunities which mining countries offer for the immediate use of capital, and the rapid accumulation of wealth, are much greater than those of agricultural districts, and the brilliant opportunities here offered to those seeking investments in mining properties will no doubt be eagerly embraced, and thus quicken the slower process of creating capital. We may, therefore, now confidently hope for a rapid advancement like California and Colorado. All classes of immigrants will be attracted to this section, for here is an immense empty Territory offering homes and competence to a million inhabitants. Arizona has a good code of laws, which provides for an economical and efficient administration of the government, and a liberal system of common schools. The United States census, taken in June, 1880, gives a white population of 40,441. The increase since then has been considerable, probably not less than 10,000, so that we may now, in June, 1881, safely estimate the population at 50,000, exclusive of Indians.

MOUNTAINS AND TIMBER LANDS.

The Rocky Mountains on the east, and the Sierra Nevada Mountains on the west, seem to unite as they pass through Arizona and form the Cordilleras of Mexico. Extending from the northern boundary, and traversing the Territory in a southeasterly direction to its southern boundary, is a belt composed of a succession of short ranges of mountains known by distinctive names, from some of which rise peaks having an altitude of over

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

10,000 feet above the level of the sea. This belt of mountain and table lands is about 150 miles in width, and embraces within its limits what may be called the mineral region of Arizona. Among the most noted of these ranges are the Santa Rita, Patagonia, Peloncillo, Huachuca, Chiricahua, Mule Pass, Dragoon, Whetstone, and Santa Catalina, in the southeast; the White Mountains in the east; the Pinal, Apache, Mazatzal, Mogollon, and San Francisco ranges in the middle and northern portions of the Territory; and the Hualapais, Peacock, and Cerbat ranges in the northwest. While many of the mountain ranges in Arizona are but sparsely covered with timber, there are others where may be found a heavy growth of pine, cedar, etc. In the northeastern portion of Yavapai County, just south of the Colorado River, is situated what is known as the Colorado Forest, comprising a large area which is covered with an excellent quality of white and yellow pine suitable for lumber. Oak and mountain mahogany are also found in this section, the latter frequently growing to the height of thirty feet, and two feet in diameter at the base. This wood is very hard and fine-grained, and well suited for cabinet purposes. Cedar, juniper, wild cherry, and ash are also found here as well as in most of the forests in Yavapai. The Coconino Forest consists of many detached bodies of the same kind of timber, covering a large area in the northern part of Yavapai County, south of Marble Cañon on the Colorado River. The great Black Forest covers all the ranges which lie between the various branches of Cataract Creek. This forest consists of pine and spruce, and most of the hard woods common to the temperate zone.

The San Francisco Mountains, in the central portion of Yavapai County, are covered with forests of pine, of excellent quality. This is considered to be the most extensive forest region in Arizona, and will supply an immense amount of good lumber for years to come. In the neighborhood of Prescott, the mountains are covered with a growth of pine and other timber, and several sawmills in operation here are turning out a large quantity of good lumber. The White Mountains, in Gila and Apache Counties, are also covered with forests of different kinds of timber. Dr. Rothrock thus speaks of this region: "From the summit of the Sierra Blanca, looking eastward, mountains of less altitude, with valleys between them, rise, one beyond the other, for at least sixty miles, most of the area being valuable timber, grazing, and farming lands. There is enough pine timber on the Sierra Blanca alone to last the whole Territory for several years. The pinus ponderosa here reaches a height of seventy feet; some firs are higher; the oak resembling white oak is branchy, closely grained, and solid." These may be said to be the great timber regions of Arizona, but there are other ranges throughout the Territory which are covered with a good growth of pine and oak.

In the Pinal Mountains is a large area covered with pine. Two sawmills located in these mountains are turning out sufficient lumber to supply the surrounding country. In Southern Arizona are several ranges, particularly the Huachuca and Chiricahua Mountains, where is found timber of different kinds in great abundance. The Santa Rita and Patagonia Mountains also afford a fair supply. The foothills of all the ranges referred to are covered, more or less, with a growth of oak, ash, iron-wood, mesquite, juniper, etc., which makes excellent fuel.

John Wasson, Esq., Surveyor-General of Arizona, in his report to the Secretary of the Interior, says:

"The mountain land is generally covered with grass, on which stock fatten the year round. It embraces nearly all the timber of commercial value, and substantially all mines of the precious and common metals. It contains many springs and small streams, with small tracts of rich land. Rocky and precipitous surfaces of comparatively limited extent exist, but, taken as a whole, the mountain land of Arizona is of incalculable value for minerals, timber, water and grass. There are no long and very well-defined mountain ranges, although the various broken parts might be treated as ranges, and for local purposes they have distinctive names. The fact is, the surface of Arizona is a succession of buttes and mountains, with extended table-land, and narrow, rich valley land between. A stranger to the merits of our mountain land, on first sight, naturally enough regards it as next to worthless. The timber in many places is hidden in deep cañons, and beyond sight about the summits, and, without toilsome examination, is as superficially unrecognizable as are the mineral treasures hidden below the surface; and it is a fact that, in most of the mountain land stretching from Mexico to British Columbia in this longitude, the most productive silver mines are found in mountains with the least vegetation, and of the most uninviting appearance. Estimated in dollars, our mountain land is of greatest worth, and for centuries, perhaps forever, they will be peopled by many thriving cities, towns, and smaller settlements, reaping above the average reward for their industry."

The grandeur of the scenery in many of the mountain ranges of Arizona is unsurpassed. On the occasion of a visit by a party of pleasure seekers, including Congressman Springer, of Illinois, to Cave Creek, a romantic spot in the Chiricahua Mountains, the Galeville *Bulletin* says:

"In this region is a climate affording a perfect sanitarium of perpetual summer, and a wealth of natural scenery excelling in gorgeous beauty the most attractive resorts in Europe or America.

"To the southeast, south and west, there towers nigh unto the clouds a thousand columns, peaks and domes, interspersed with massive structures resembling castles, from which steep declivi-

ties, studded with pine, in terraced sections merge from either side into a level valley of irregular width, through which the sparkling waters of Cave Creek flow until lost in the sands of the broad acres of San Simon Valley.

"The valley, on entering the mountain gorge, resembles one vast orchard, with now and then a towering pine to dispel the illusion, while along the base, at convenient intervals on either side, are numerous caves that have evidently, from their smoked condition, been the home of the Indian, and from which it took so many years of tedious warfare to dislodge them.

"The scene, the magnificence of all its surroundings, so charmed Mr. Springer that he concluded to use his influence to have the entire Cave Creek region set apart as a public park, save and except the valley, where he believes, sooner or later, will rise a city of no mean proportions. To use the language of our distinguished visitor, 'I have made the tour of Europe, visited all the enchanting spots of Switzerland, crossed the Alps, and climbed the Pyrenees, that I might view the places so appreciated by man, and returned home to find a spot more lovely, and attractive, and sublime than I had witnessed in all my travels.'" This description of the scenery in the Chiricahua Mountains will apply to the Huachuca, Patagonia, Santa Rita, and other ranges in different portions of the Territory.

RIVERS.

The Colorado River is the principal stream in the Territory. It enters Arizona on the north from Utah, runs southwesterly through Yavapai County, thence northwesterly through Mohave County to Nevada, forming a portion of its southern boundary, then turning due south, it forms the western boundary of Arizona, separating it from Nevada and California, and finally empties its waters into the Gulf of California, a hundred miles south of our line. This river is remarkable for the immense channel which it has cut through the rocks for more than six hundred miles of its length. Often the banks rise almost perpendicular, like a wall, two or three thousand feet. These deep gorges are called cañons, the most noted of which are, Grand, Marble, Iceberg, Gray, and Limestone Cañons. It is navigable for light draught boats, as far as El Dorado Cañon, five hundred and sixty-one miles from the Gulf. The navigation is generally by stern-wheel steamers, which tow barges loaded with freight. The Little Colorado River gathers its waters principally in the eastern part of the Territory. It has many branches in Apache and Yavapai Counties, through which it runs in a northwest direction, and unites with the Colorado. This stream and its branches are also remarkable for their long and deep cañons. The Gila River, though second in size, and unnavigable, is the most important river in Arizona. It rises in New Mexico, runs in almost a direct west course across the Terri-

tory, and joins the Colorado one hundred and seventy-eight miles from its mouth. It receives affluents from every county except Mohave.

One hundred miles above its mouth, the Gila averages five hundred feet in width by three feet in depth, and has considerable velocity. This gives water enough to irrigate all the lands on on either side, suitable for agriculture. The banks are low and sloping, so that water may easily be taken from it in ditches. The principal affluents of the Gila are Salt River, and the San Pedro. The Rio Verde is an important branch of Salt River, running nearly north and south, in Yavapai and Maricopa Counties. It affords water power to a district rich in minerals, and there is considerable grazing and farming lands in its valley. The Santa Cruz is a small but important stream, which has its source near the Mexican line, runs north, and sinks into the earth near Tucson. Many millions of dollars in silver have been taken from the mountains along this stream.

VALLEYS.

The valley of the Gila is about 400 miles in length, lying east and west, on parallel 33, and extending entirely across the Territory. At Yuma, the foot of the valley, its altitude is 138 feet. Where it crosses the western boundary of the Territory, into New Mexico, it is 3,600 feet. With the various tributary valleys, it comprises the largest portion of agricultural land in Arizona. Its position, altitude and gentle slope, gives it great importance as a railroad highway. The Southern Pacific Railroad passes through a portion of it, and in the future other roads will undoubtedly seek this route. The Salt River Valley is a tributary, lying north, from one to twenty miles wide, and sixty miles long. In this valley, surrounded by a good agricultural country, Phoenix is situated. The San Pedro, in the southeastern part of the Territory is a long narrow valley, affording considerable farming land, and on its borders is a large amount of excellent grazing land. This, and the valley of the Santa Cruz must, in the future, become railroad highways, connecting us with our sister Republic. The Santa Cruz Valley, commencing in Mexico, and running north for more than a hundred miles, was the centre of Mexican population during their possession of the Territory. The valley is narrow, and affords but a small quantity of land, which can be used for raising grain. Skirting it are thousands of acres, suitable for cattle range. The Colorado Valley runs north and south, along nearly the entire western boundary. The banks of the river are so bluff and high in many places, as to render irrigation impracticable, without which the most of the soil must remain unproductive, but in the vicinity of Yuma are some exceedingly rich lands, which can be profitably cultivated.

There are several hundred small valleys scattered through the Territory, lying between mountain ranges, skirting table lands, or carrying some small tributary to the rivers. Most of these valleys are good agricultural lands, and some will raise crops without irrigation. Many of the latter class will be found in the White, Juniper, and San Francisco mountains. In the northwestern portion of the Territory, and but little known, are Prospect, Hualapai, Sacramento, Cedar, and Big Sandy valleys, and Juniper Basin. In the central part are Aubrey, Williams, Round Ferguson, Big Chino, Agua Fria, Peeples, Kirkland, and Skull valleys.

The valley of the Little Colorado, with its small tributaries, is estimated to embrace about 300,000 acres that may be adapted to agriculture by irrigation. It is settled principally by Mormons. The Rio Verde Valley extends from the Salt River Valley about 150 miles northwesterly. It is generally narrow, from a few rods to a mile in width, and often presenting nothing but a rocky gorge or cañon just wide enough to carry the river. The bottom land is rich, and as there is sufficient water to irrigate it, large crops are raised. The San Simon, Sulphur Spring, Sonoita, Babacamori, Cienega, Arivaca, and Aravaipa, lying in the southern portion of the Territory, are all valleys of considerable size, carrying more or less water in brooks and springs, and afford in the aggregate a large amount of land which can be irrigated and farmed, and embracing many thousands of acres of excellent cattle range.

CLIMATE.

The climate of Arizona varies so much in different parts of the Territory that no general description would do justice to many localities. In the valleys and low lands the temperature varies from temperate to hot. On the mesas and mountains from temperate to cold. At some points of high altitude snow falls, and there are a few days during which the cold is uncomfortable. Travelers who are familiar with the climate of other portions of the Union and with that of Southern Europe, which is so generally admired, speak in the most glowing terms of the climate of Arizona during the winter months. At this time of the year the weather is dry and warm, and the air so balmy as to be perfectly luxurious. Arizona would prove a sanitarium to those whose delicate constitutions force them to fly from the rigorous winters of the north to more genial climates.

During May, June, and July the weather in the valleys is hot and oppressive, the direct rays of the sun being too intense to admit of much work in the open fields. The atmosphere, however, is exceedingly dry, and the heat which in moist climates would be destructive to health is here borne without any evil effects. Mining sections are generally of higher altitude, and of course the

heat is not so great. A large portion of the labor is underground, where there is less difference between winter and summer temperature, and nearly all may be carried on under cover; so that the heat need never interfere with this industry.

The climate is too dry, as shown by the limited number and size of the water courses to admit, under the most intelligent application of labor and enterprise, of its ever becoming a great agricultural State. Were all of the streams on a level with the general surface, they would not furnish enough water for the soil—the rainfall not being sufficient to supply them, and flowing as they do in many cases in channels so far below the surface, they add no moisture to the soil, but serve only to overdrain it.

The following results of observations taken in different years at prominent points in the Territory, will give a general idea of the temperature and moisture. At Fort Mohave, on the Colorado River, a decidedly hot place, the average temperature during the months of July and August, 1873, was 91°, and during May and June, 1874, it was 87.5°. The two coldest months for the same years were December and January, during which the average was 54°. For the year commencing July, 1873, the mean average temperature was 74.42°. The average rainfall at this place is about five inches; altitude, 600 feet.

Yuma, on the Colorado at the mouth of the Gila, is 155 feet above sea level. In 1880 the maximum temperature occurred in August, 111°; and the minimum in February, 25°. The mean temperature for the year was 70.2°. There was no rain except in December, when 0.74 fell. The average rainfall at Yuma for several years was a little over three inches.

Phoenix, in the Salt River Valley, has an altitude of 1,800 feet. The maximum temperature here in 1880 was in June, 111°; the minimum was in November, 24°; the mean average for the year was 69°. The rainfall was in January 1.16, February 0.38, March 0.26, April 0.15, May 0.00, June 0.49, July 1.18, August 0.72, September 0.67, October 0.20, November 0.00, December 1.61. Total for the year 6.82.

Tucson has an altitude of 2,545 feet. The maximum temperature in 1880 was in June, 110°; the minimum, in January, 14°. The mean temperature of the summer was 79.6°, and of the winter months 55.5°. The total rainfall, five inches.

Camp Grant is situated on the southwestern slope of the Graham Mountains, in the eastern part of the Territory, south of the Gila Valley. It is 4,833 feet above the sea. During several days each year snow and hail falls. The mean temperature for the warmest month in 1875, June, was 80°; and for the coldest month, January, 49°. The mean average for the year was 64°. The rainfall, 20.18 inches.

At Camp Apache, which is located on the southwestern slope of the White Mountains, in latitude 33° 40', the climate is ex-

treme; the range being from 20° below freezing point on the coldest nights of winter, to 104° on the hottest days of summer. The nights are always cool, even during the warmest weather. The altitude is 5,000 feet. The mean temperature in January, the coldest month, is about 27°; and in July, the warmest, about 79°. The average for the year, about 56.5°.

Prescott, the Capital of the Territory, is situated at an altitude of 5,700 feet. The cold during the winter is sometimes severe, but for most of the year the temperature is genial, and the climate remarkably pleasant and healthy. According to the report of the Signal Service officer, the range of the thermometer in July, 1878, was 48° to 103°; in December of the same year, 4° to 67°; in January, 1879, 4° to 68°; and in June, 1879, 39° to 97°. The rainfall for the year ending June 30th, 1879, was 11.31 inches.

In the extreme southern portion of the Territory, in the Sulphur Spring Valley, San Pedro and Santa Cruz Valleys, and the territory lying between them, the climate is represented as being particularly pleasant and healthy. In summer, during the hottest weather, the thermometer rarely rises above 95°; and in the winter, at an altitude of 4,000 feet, freezing point is reached only for a few hours at a time. All of the semi-tropical fruits and plants will be cultivated in this region. The average rainfall is about ten inches, which, though insufficient for raising crops of grain without irrigation, clothes the valleys and hillsides to their tops with a heavy growth of grass, for a large part of the year, besides affording to the streams sufficient water, carefully preserved and applied, to render fruitful many thousands of acres. J. Ross Browne thus speaks of the climate in this section: "It was a luxury to breathe the air; nothing more pure or invigorating could exist upon earth. The unclouded sky and glowing tints of the mountains, the unbounded opulence of sunshine which seemed to sparkle in atmospheric scintillations, inspired us with a perfect overflow of health and spirits, and it was no wonder we built many castles in the air, and reveled in dreamy regions of enchantment, in which the glittering silver mines of Arizona played a prominent part."

AGRICULTURAL AND PASTORAL RESOURCES.

Under this head the Surveyor-General of Arizona in his report for the year 1879, says:

"Everything produced in the temperate zone, and many things native to the tropics, are successfully grown in Arizona. Wheat, barley, and corn are the leading grains. Irish and sweet potatoes flourish; garden vegetables in general; all the fruits of tree and vine; and limited but successful experiments have been made in growing cotton and sugar-cane.

"All the domestic animals and fowls are grown and are healthy.

L. BASHFORD & CO., Prescott, A. T., DEALERS IN GRAIN.

The several businesses of growing cattle, horses, mules, and sheep are assuming large proportions, and many blooded animals have been brought from abroad at large cost. Hogs do well. Choice ham and bacon are cured and preferred to the imported articles. The magnitude and permanency of mining in Arizona must always insure large home demands for local products, and therefore good prices will prevail; and in no other section of our common country will the industries be more varied or better rewarded."

Mr. Thomas Gardiner, publisher and proprietor of the *Arizona Quarterly Illustrated*, says:

"The vast extent and richness of the *agricultural lands* within the bounds of this Territory have hitherto been in a great measure overlooked; but now that by means of railroad and other facilities they are being better known, they will soon be more adequately appreciated, and there cannot be a doubt that ere long they will be rapidly taken up for cultivation and duly utilized. On both sides of the Gila and Salt rivers, and also of the Santa Cruz and San Pedro, there are great tracts of unoccupied land that could be irrigated and would yield amazingly, and two crops a year. The land, too, is so deep, rich, and strong as to require little labor and less manure, water alone securing almost all that is necessary to make it pour forth its produce in great abundance. Our tillage soils seem suitable for almost every kind of grain. Hitherto the chief crops have been wheat, barley, and corn, which do remarkably well."

To illustrate what is being done in farming, we cannot do better than to give a description of Salt River Valley, selected from the same journal of date April, 1881:

This magnificent tract of as productive agricultural land as can be found in the world, is located in Maricopa County, in the central portion of the Territory, and contains somewhere about 250,000 acres of the richest kind of alluvial soil, and of great depth, which yields most abundantly and regularly, almost any kind of crops, more particularly of wheat, barley, corn and alfalfa; while sugar-cane, cotton and rice can also be very easily and profitably raised. Every kind of fruit grows readily, of fine flavor and luscious in quality. The abundant supply of water, easily carried through a great portion of the valley, by a system of ditches, from Salt River, always insures large returns to the farmer on either side of the river. On the north side, the Grand Canal is nineteen miles in length, the Maricopa sixteen, the Salt River thirteen, the Griffin six, the Farmer's eight and the Monterey four; total, sixty-six miles. On the south side, the Mesa Canal is fifteen miles, the Utah eight, the Tempe fifteen, the San Francisco ten, the Prescott six; total fifty-four—making in all one hundred miles of main arteries which are tapped on their course by innumerable smaller ones. Doubtless this system has proved most advantageous to the farmer, as without the water, the lands

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

would be virtually worthless. But with all due deference to the owners of the various canals, a consolidation of interests, whereby the whole would be under one great company, or organization, would likely prove more advantageous than the present methods to the country at large. The present system could be greatly improved upon, much expenditure saved, more land irrigated and utilized at less expense to the owners, and in the long run, better returns realized by the company of stockholders. Thousands of acres now lying waste and unused, could be made to yield as largely as those now under cultivation. The soil is so rich and of such great depth and strength as not to require fertilizing. The Indians have tilled and cropped some portions of these same lands year after year, for some three hundred years, and still they yield as good crops as could well be expected even from soil in a virgin state.

“Cost of the various canals of this valley, and the approximate number of acres irrigated by each this year :

Grand Canal, 3,500 acres.....	\$38,000
Maricopa Canal, 2,500 acres.....	25,000
Salt River Valley Canal, 2,500 acres.....	30,000
Griffin Canal, 400 acres.....	15,000
Farmers' Canal, 800 acres.....	35,000
Monterey Canal, 400 acres.....	10,000

“The above are on the north side of the Salt River, and the following on the south side :

Mesa Canal, 800 acres.....	\$10,000
Utah Ditch, 500 acres.....	5,000
Tempe Canal, 2,800 acres.....	25,000
San Francisco Ditch, 500 acres.....	10,000
Prescott Ditch, 300 acres.....	8,000
Maddux Ditch, 100 acres.....	5,000

Totals—15,100 acres.....\$216,000

“A fair average of the wheat crop is 1,100 to 1,300 pounds per acre, and of barley, 1,400 to 1,600 pounds per acre.

W. Isaac & Sons, who have 1,150 acres in grain, all in a body, have had some remarkable yields. They first put in 200 acres four years ago, and have kept on increasing each year. Their average yield has been 2,000 pounds of barley per acre for four years; but on fourteen acres the average was 2,800 pounds per acre the first year, and on twelve acres, 2,830 pounds of wheat per acre were produced. They experimented by planting four acres with eight pounds of wheat, ridged 2x2 feet, which yielded 2,300 pounds to the acre.”

The valley of the Gila, extending entirely across the Territory,

from a few rods to ten miles in width, affords an immense quantity of land which can be irrigated and cultivated. The remains of old irrigating canals prove that the valley has been used by a populous race for agricultural purposes. From Gila Bend to the Colorado River it is estimated that there are 500,000 acres suitable for cultivation that could be irrigated by the Gila. The valley about Florence is equal in quality to the Salt River Valley. Some fine farms and orchards are found in this neighborhood. All the ordinary grains and fruits grow luxuriantly. From Camp Thomas to the boundary of New Mexico there are a number of tributary valleys to the Gila, such as Pueblo Viejo, Ash Creek, etc., which are said to contain at least 100,000 acres that can be irrigated and farmed. The valley of the San Pedro affords a large amount of good farming land, and water enough, perhaps, if judiciously collected and used, to irrigate a large portion of it, as the rainfall in this valley averages from 8 to 10 inches, and irrigation once in two weeks is found sufficient. At Tres Alamos is an orchard in which apples, figs, grapes, apricots, and peaches grow luxuriantly. Below this point are several ranches where good crops of wheat and barley are raised.

The slopes and mesa land on both sides are covered with nutritious grasses most of the year, which renders it desirable for grazing purposes. Between the Galiuro Mountains and San Simon Valley is Hooker's large grazing ranch, where he keeps 5,000 head of cattle and 500 horses. San Simon Valley and the Peloncillo Mountains bounding it on the northeast, afford thousands of acres of good grazing lands. There are no running streams in this vicinity, but water is abundant near the surface, and in some places gives the appearance of wet lands. The Sulphur Spring Valley, lying between the Chiricahua and Dragoon mountains, derives its moisture from mountain brooks which empty into it. It is a long, wide valley, and covered with grass. The foot-hills on each side are also covered with a luxuriant growth, which makes this one of the finest cattle ranges in Arizona. What is said of these two ranges applies to most of the mountain ranges in Southern Arizona. They have more or less water, always sufficient for herds; their foot-hills and slopes are covered with nutritious grass, and the climate is so mild that there is no danger from exposure at any time of the year. The Sonoita and Babacomori are small valleys, with living streams running through them, which will afford some fine farms and orchards. The Santa Cruz affords considerable tillable land, and a large amount of good grazing land. Some parts of this valley have been cultivated an indefinite length of time, and without any manuring shows no deterioration in its productiveness. The valley of the Little Colorado furnishes some 300,000 acres of land capable of cultivation. The Mormons from Salt Lake have commenced several settlements here. The valley of the Verde, though narrow,

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affords some excellent land, and abundance of water for its irrigation. It extends from Salt River northerly into Yavapai County, and in that portion of it there is considerable land under cultivation. Skull, Agua Fria, Date Creek, Peeples, Kirkland, Walnut Grove, Hassayampa, Williams Fork, Big Sandy, Big and Little Chino, Round, and Aubrey, are all valleys of from one to five miles in width and several miles in length, which afford good farming land and water for irrigation. All through the mountains are innumerable small valleys, from fifty to several hundred acres in extent, which afford good farming and orchard land, while the slopes and mesas around them are excellent ranges for cattle and sheep. In the Upper Tonto Basin and Mogollon Mountains are many such valleys.

The region of the San Francisco mountains in Yavapai County is thus described by Lieut. Beale:

"It is the most beautiful region I ever remember to have seen in any part of the world. A vast forest of gigantic pines, intersected frequently by extensive open glades, sprinkled all over with mountain meadows and wide savannahs, filled with the richest grasses was traversed by our party for many successive days."

Dr. Parry, also of the United States Exploring Expedition, says of this region:

"We have in these elevated districts a climate favoring a growth of trees, a more equable distribution of rain and dew throughout the year, especially adapted to the production of nutritious grasses, and the cultivation of grain without resorting to the expensive processes of irrigation. These desirable climatic features are especially noticeable along the elevated slopes of the San Francisco mountains, where magnificent pine slopes are agreeably interspersed with beautiful grassy valleys and parks, numerous springs and delightfully invigorating atmosphere." The White Mountains in the southern part of Apache County are thus described by Dr. Rothrock:

"Arizona is, emphatically, a land of contrasts in scenery; its tropical climate either parching the soil and vegetation or under a fair supply of water causing the flora to deck the surface with a luxuriant covering of verdure. Nowhere is this statement more strikingly true than in the Sierra Blanca and the adjoining plains south. On the latter the *ensemble* of the vegetation is dwarfed and hardened from the aridity of the soil and rapidity of evaporation. In the mountains, however, dense forests alternate with well watered glades, covered with a luxuriant growth of grass and flowers. Between the ranges are well watered valleys, producing grass enough for all the herds of the territory."

When the extent of our mountain territory is considered, it will be seen that the number of these small mountain valleys reach thousands, and that their agricultural and pastoral resources

in the aggregate perhaps surpass the resources of the large valleys.

MINERALS.

The Territory of Arizona is pre-eminently mineral in its natural resources. No doubt it has sufficient arable lands to furnish a large population with all the grain, fruit, meat and dairy products required, and farmers will find these productions profitable, because a ready market will be at their door. Many articles will, no doubt, be manufactured profitably for home consumption, as our population increases; still, we do not claim that Arizona is either a manufacturing or agricultural Territory. With the exception of cattle and sheep raising, the conditions for successful farming on a large scale do not exist. In all countries, mining is an attractive industry, and in a new country, like this, where the land is open to all, where the prospector's pick may at any blow disclose the rich silver vein, and where so many have found fortunes, all other pursuits are sure to become secondary. The mineral region is not confined to a few localities, as in Colorado, or to a narrow belt of a few miles in extent, like the famous Comstock of Nevada, but on the contrary, it embraces the entire Territory, 325 miles square. Nowhere else in the world, has there been found so many veins of silver. Every range of mountains, and in some sections every ridge and hill discloses these veins. They have been found from the Mexican boundary to a point north of Prescott, a distance of 250 miles, and from the Colorado to the boundary of New Mexico. No limit can be given of their extent, and a catalogue of their locations would be a large volume of more than 100,000 records.

The term mineral includes all the inorganic substances which are taken from the earth, such as clay for brick, granite and marble for building purposes, etc., but we shall refer only, with the exception of salt and coal, to the metalliferous veins.

The silver mines of Arizona were discovered and worked more than a hundred years ago, while Mexico, including our Territory, belonged to Spain. Excavations have been found which appear to have been made at even an earlier date, and have been attributed to the Aztecs, and its not improbable that a part of the glittering mass of gold, silver and turquoise which excited the cupidity of Cortez and his followers, was collected in Arizona. Old Mexican traditions locate Arizuma, an Aztec name, signifying land of silver, in the valley of the Santa Cruz. Wonderful stories were told of the amount of gold and silver to be seen in the seven cities of Cibola, and expeditions were sent by the Viceroy of Mexico to find and seize the coveted treasure. Nothing was accomplished by these expeditions but the partial destruction of a peaceful, native race, who had made considerable progress in civilization. Afterwards, that order, whose piety and zeal have

furnished throughout the New World, so many pioneers, the Jesuits began founding missions in this unknown land. Through one of these missions, located near the Santa Rita Mountains, the discovery of rich silver mines was made. A Yaqui Indian is said to have made the discovery in 1769. On, and immediately below the surface of the ground, pure silver in large pieces was found, many of which weighed twenty-five and fifty lbs., several 500 lbs., and one mass is particularly spoken of, which gave 3 500 lbs. after being fused, and divided on the spot where it was discovered in order to remove it. A large population was immediately attracted to these mountains by this discovery, and the valley of the Santa Cruz became the center of active mining operations. The town of Tubac was probably the largest mining village. Within a circuit of fifteen miles around this town one hundred and fifty silver mines were more or less worked. Other rich districts were found in this range of mountains, and worked at great profit, large quantities of silver being taken out and carried into the towns of Sonora. Seven years after the first discovery, the king of Spain, who had seized considerable of the treasure first taken out, decided that all the silver pertained to the private patrimony of the crown, and that the mines in future should be worked for his special profit. This decree did much to discourage mining, although considerable was carried on more or less secretly by the Jesuits, but often entirely interrupted by the hostility of the Indians. When the revolution in Mexico occurred, these missionaries were banished, and their property confiscated, then mining entirely ceased, and now, even the exact location of such mines as the Tumaacori, Salero, and Plancha de la Plata, the richness of which is a matter of record, is unknown. Recent prospectors claim to have rediscovered them; whether or not they have done so, it is certain that their search has been rewarded by new discoveries, which, in importance, may exceed those of old.

In 1857, this Territory having been purchased by the United States, the Americans turned their attention to this rich silver district, and commenced work on several mines. During the next four years, many new mines were located. The rebellion caused a total cessation of work, and very little attention was paid to the mines in this section till 1875, when the discovery of wonderfully rich districts in the Pinal and Apache ranges of mountains, north of the Gila River, gave a new impetus to mining throughout the Territory. These discoveries were followed in 1877 by what appears to be a still more important one in the southeastern part of our Territory, that of the Tombstone mines, which have already given evidence of being among the richest in the world.

The developments already made leave no doubt as to the permanency of the mines of Arizona. Innumerable ledges have been found containing rich ore near the surface, but in many cases as depth is attained the ores grow richer. The veins dive into the

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earth at all angles of inclination, giving us vertical lodes and blanket lodes, as they do in other countries. They pinch into narrow seams, give out, come in again, swell into large masses, the same as mineral veins all over the world. Every known variety of silver ore is found divided into the two classes, in reference to reduction, of milling ore and smelting ore, and these two classes are found in the same kind of formation with the same general differences as are recognized in other sections. The word fissure in its application to mineral veins is founded on a theory in regard to their formation by no means generally accepted, and we think the tendency is to reject the theory and retain the word only as descriptive of a large and permanent vein. Still using it in its old sense, all the important mines here give, so far as they have been developed, the same evidence of being true fissure veins as the mines of Nevada and Mexico. No known case of giving out has yet occurred, though several mines which have paid from the surface have reached a depth of 600 feet. The large amount of float ore found here might be cited as an evidence of the permanence of the veins, indicating not only the length of time which nature has been tearing them down, but also the great period during which circumstances were favorable for their formation. Those who believe that mineral veins are the result of infiltration or segregation from, or near the surface, will be likely to consider the depth to which such veins might reach in a country which has been drained to so great a depth. Wherever a number of veins giving good promise have been found within a neighborhood of a few miles, the section has been formed into a mining district. These districts are of all sizes, containing from 25 to 2,000 square miles. Over eighty have been formed, and additions are constantly being made. They contain from 100 to 3,000 locations each. Every location indicates the appearance of ore in greater or less quantities, and we may thus obtain an idea of the vast extent of country which is permeated by mineral veins in this Territory.

Gold.—Gold placers are found throughout every portion of the Territory. They have been worked by Mexicans for many years past, and a considerable number are still engaged in this branch of mining. The scarcity of water in many localities renders the washing of the earth on a large scale impossible, most of the work being done by individual effort, or two persons working together. A small shaft is sunk a few feet in depth to the bed rock, which is scraped, the earth sacked and carried to the nearest spring or stream and there washed. In this rude way considerable gold in the aggregate is taken from the placers every year. They yield from \$1.50 to \$3.00 per day, but occasionally a very rich spot is found and a much larger amount taken out. There are several sections where water might be introduced by canals, as on the placers of the San Francisco and in the Horseshoe Basin south of

the Gila, and in others water might be collected in reservoirs made by damming gulches or small streams, and sufficient obtained to wash the earth in paying quantities. The Santa Rita Mountains contain many gulches and small valleys where gold is found in paying quantities. Horseshoe Basin, now organized into a district called Gold Mountain, lying in the central part of Pima County, includes many thousand acres of surface diggings. In 1862 placers were discovered near La Paz, a short distance east of the Colorado River, which have been more or less worked ever since. It is estimated that they yielded a million of dollars the first two years. Several of the mining districts around Prescott were first located on account of their placers, and some are still being worked, giving employment to quite a number of men. The Weaver District in the southern part of Yavapai County has a large area of placer diggings, where mining is now carried on.

Surface diggings are also found in the Bradshaw Basin, Tonto Basin, White Tank Mountains, and in many of the ravines and gulches on the northern slope of the Salt River Valley. In Graham County on the San Francisco River is a large scope of country containing rich placers, and recently very rich deposits have been found in Maricopa County, near Seymour. When the extent of territory is considered which the above enumeration indicates, it will be seen that our placers must for a long time to come afford an important resource of gold production.

The more permanent resource of gold will undoubtedly be gold quartz. These veins, like the silver veins, have been found in nearly every part of the Territory, the only limit so far being the limit of exploration. A large proportion of the mines of Yavapai, Pima, and Graham counties are worked exclusively for gold, while all the silver veins carry a greater or less per centage of this royal metal.

Copper.—Copper ores are found in all parts of the Territory in quantities unequaled by any other portion of the United States. Perhaps nowhere else in the world has such immense ledges of high grade ores been found. They are of that class which is easily reduced by smelting, consisting of red oxides, gray carbonates and copper glance. The red oxides frequently carry pure copper, of which many large masses have been found. The ores carry so little gangue that only a small amount of labor is required in dressing them for the furnace, which is no inconsiderable consideration in their economical reduction.

The Copper Queen in Warren District, near the town of Bisbee, has a ledge of over a hundred feet in width, all fine ore, yielding from twenty to sixty per cent. of copper. A thirty-ton furnace at this mine yields seven tons of pure copper per day, and the quality of the metal is equal to that of the well known Lake Superior copper. Six men have taken out of the mine and dressed ready for the fur-

nance ten tons of ore in a day. The smelting is done with English coke, and yet we are told the profit is eight cents per pound on the copper.

In the Santa Rita Mountains is another copper region now being explored, in which the ledges are said to be of immense size and equal in quality of ore to those of Bisbee.

In the northeastern part of Pima County, in the Silver Bell District, some very rich and extensive copper ledges have been discovered, and smelting works erected. In the western part of this county is another copper district, in the center of which are the noted Ajo mines, which were discovered and worked several years since. In the northern part of Yuma County is a large region between the Granite Wash Mountains and Bill Williams Fork which affords copper ores. The Planet mines, situated in the northern part of this district, have yielded about 8,000 tons of copper. In Gila County, near the town of Globe, are situated the mines of the Old Dominion Company, which are remarkably rich. Other mines in this vicinity have large quantities of paying ore. Four smelting furnaces are in operation here. On Cave Creek, in the eastern slope of the Verde Mountains, is another copper district, in which there is an immense ledge said to average thirty-four per cent. East of Agua Fria Valley, Yavapai County, at the foot of the Black Hills, is an unexplored region of copper which promises to equal anything yet found in the Territory. It is said that hundreds of tons of good float ore may readily be gathered from the surface of the ground. At Riverside, Pinal County, smelters have been erected by the Pinal Copper Mining Company for the reduction of ores taken from their mines about six miles distant.

The Clifton copper district, in the eastern part of Graham County, near the Rio San Francisco, has long been known. The copper developments here are truly wonderful; ledges from 30 to 100 feet in width crop out of the ground for thousands of feet in length, and where they are cut by the cañon to the depth of a thousand feet, the same quality and quantity of ore is exhibited. The ores are red oxide, gray and green carbonates, and copper glance. Smelting furnaces have been erected at the town of Clifton, and are now running on these ores. It will be readily observed from this condensed sketch of the copper regions that this metal is to become one of the large resources of the Territory.

Coal.—Coal has recently been discovered in the eastern part of Pinal County, on Deer Creek. The vein, where prospected, is ten feet thick, and croppings have been traced several miles, giving evidence of a large coal field. The quality is said to be good. This discovery is regarded as most important, as it gives assurance of cheaper fuel for the smelting furnaces. Some three years ago coal was discovered in the Aravaipa Cañon, and it is quite probable that the Deer Creek coal field is extensive, going as far

south as this point. Coal is known to be in various parts of Yavapai and Apache Counties. Near Fort Defiance, a vein is reported nine feet in thickness; twenty miles west of the Moqui villages, two veins, one above the other, crop out in a cañon, one eight feet, and the other four feet in thickness. A short distance from these, another vein is reported twenty-five feet in thickness. Immediately at the Oraybe, a large vein crops from the mesa. The United States Exploring Expedition also reports coal in Mesa La Vaca and in the White Mountains near Fort Apache. These reports are considered reliable, and show the appearance of coal over a large extent of territory, and renders it altogether probable that when the northern portion of the territory shall become accessible a vast quantity of this mineral will be found.

Lead.—Probably no other two metals enter as extensively into economical uses as lead and iron. The uses about the homestead, and in all mechanical constructions and in the arts, are so manifold and continuous, that the quantity required to supply the demand is almost beyond computation. These, with copper and tin, may be called the industrial metals. While gold and silver are valuable accessories in the arts and necessities, for currency, as well as for ornamental purposes, these metals are the sinews of all mechanical agencies—the indispensables. In social economy, they represent the laborers and producers, while gold and silver represent the capitalists. Without lead and iron, the world would retreat to the age of wood and stone. These economical metals are the real precious metals, growing more precious the greater their quantity and the lower their price. Indeed much of their value depends upon their abundance and cheapness, as general use requires both conditions, and also insures a market at remunerative prices. Demand may sometimes fall behind supply, and the article falls in price, this renders its application to many new uses, profitable. Fluctuations in demand and supply, as we have lately experienced in silver and copper, are likely to occur with any metal to an extent that will render for a short time, their production unprofitable; such a period in the economical metals is inevitably short, as the old demand goes steadily on and new ones are created, while the supply decreases. The price then rises or the means of production is cheapened, and in either case the industry prospers. A country which possesses large deposits of these industrial metals, has a resource which lasts a long time, and gives employment to a large population. But a year or two ago our copper mines received but little attention, notwithstanding their richness was known. The price of copper and the expense of freight rendered its production unprofitable. Now we begin to see that the production of copper is to become immediately one of our chief resources. No doubt a considerable time will elapse before we shall turn our attention to the manufacture of iron, the ore of which is abundant in many places in our Terri-

tory, and yet not in such quantities as to attract attention, or offer superior or equal inducements over other sections of the Union east of us, where labor, transportation and capital are cheaper. But in regard to lead, we see no reason why its production, like copper, may not become, within a short time, an important industrial resource. The immense quantities which have been mined, in connection with silver, in Colorado, Utah and Nevada, have temporarily affected the market, and rendered lead mining unprofitable, but with a metal, the use of which is rapidly increasing, the demand will, in a short time, catch up with the production, and mining in it again become profitable, especially here, where it can be produced so cheaply on account of the unlimited quantity of good ore, and its production being made in most cases, incidental to the mining of silver. With lower rates of transportation, it would immediately become an element of calculation in many of our silver mines. Our smelting ores of silver are found in greater or less quantities in all the silver districts, and must afford large quantities of lead. Besides these, there are in many districts, immense ledges of silver smelting ores, of two low a grade for present work, which will become available when the production of lead shall also become an object. In the northeastern part of Castle Dome District, in Yuma County, there are immense ledges of lead ore, carrying a small amount of silver. These ledges are also found northward, in the Plomosa Mountains, and in the Cedar District of Mohave County, as well as in many other portions of our Territory.

Iron.—No attention has been given to iron ores, for the reason that some time must elapse, and changes take place, in and around our Territory, before the production of iron can be made profitable. Good ore has been noted, however, in many sections, especially in the Chiricahua Mountains in the south, and in Cave Creek District Maricopa County, where large bodies of hematite ore are found. Good ore is also mentioned in the White Mountains in Southern Apache, and in the District of the Rio San Francisco.

Tin.—Small quantities of wood-tin, one of the best ores of this valuable metal, have been found in various localities on this coast. In Northern Mexico considerable float ore has been found of a kind generally termed stream-tin, from being found in the gravel beds of water streams. Some years ago the writer was shown a couple of handfuls of these nodules of stream-tin, which were said to have been found in Arizona. There is reason to believe that tin would be found here if prospectors were acquainted with the ore. Stream-tin is likely to be found in gold-washing; but unless the attention of the miner is directed to it, the ore would be thrown aside with the other debris. It is found in small nodules from the size of a pea to the size of a man's fist, or larger. It is generally of a brown color, although all shades from gray to black are found. It has a smooth, hard surface, and feels like metal. On

breaking one of these nodules it is likely to be found softer inside, and show concentric layers, like an agate. On account of its weight it will be found on the bottom of the sluice or gold pan. Wood-tin in the ledge or bowlder is frequently of a grayish color, with streaks of lead color and brown, and is not unfrequently mixed with little nodules of red. It often resembles sandstone, but its weight shows at once that it is metalliferous. The test is simple: Crush a small quantity of the suspected ore to a powder, mix with it cyanide of potassium, then cut a hollow in a piece of charcoal, put the substance in, turn the flame of a blow-pipe on to it, and if it is tin ore you will get small beads of pure tin.

Salt.—Salt is found in springs and beds in the northern part of Mohave County, where there appears to be an extensive salt range running northward into Nevada. Salt springs and considerable deposits of salt are found on the Black River near the mouth of Cañon Creek, in Maricopa County, and on a branch of the San Carlos, called Salt Creek.

Limestone is found in various portions of the Territory, and especial mention has been made of it in the Chiricahua, Dragoon, and White Mountains, and also in Cave Creek District, in the northern part of Maricopa County. Large quantities of limestone and marble are also to be found in several localities on the Colorado River. Marble Cañon, on the Colorado, in Yavapai County, is a gorge 2,500 feet in depth, which the river has worn down through a bed of marble several miles in length, and of every shade and quality. Gypsum is found in the Whetstone Mountains in Cache County, on the San Pedro, and also near Sunset Crossing on the Little Colorado.

MINING DISTRICTS.

AGUA FRIA YAVAPAI COUNTY.

This district, located in the southern portion of the county, east of the Black Cañon District, contains gold, silver and copper mines, but they have not as yet been developed to any great extent. It is said that rich discoveries have recently been made in this section.

AJO MINES, PIMA COUNTY.

These copper mines, which were discovered by Mexicans a long time ago, are situated in the western part of the county, forty miles south of the Gila River, and one hundred miles from Yuma. Shortly after our purchase of the Territory, they were opened and worked by American capital, the ore being hauled to Yuma,

through a desert country, and then shipped to Swansea or Boston. Although the ores were rich and abundant, yet this method proved so expensive that operations were suspended.

ARIVACA, PIMA COUNTY.

This district is in the extreme southern portion of the county, adjoining Oro Blanco District.

The Heintzelman, a well known mine, was located and worked some years ago, but is now lying idle. It has a working shaft 230 feet deep, and several prospect shafts from ten to fifty feet deep. The ore is a kind of zinc blende, and frequently of very high grade, giving assays as high as \$4,000 to the ton, but it is exceedingly base, and has to be worked by the leaching process. This mine has yielded about \$850,000. The Juiche is an old mine, which has a shaft down sixty-five feet, and some open cuts showing rich ore. The Consolidated Arizona Gold and Silver Mining Company, Mr. John McCafferty, Superintendent, employs from forty to fifty men. The working shaft is down 160 feet, and is surmounted by good steam hoisting machinery. Levels have been opened, and a number of crosscuts run, which show ore said to mill \$100 per ton. The company has erected a ten-stamp mill, which is now in operation. The Arkansas, belonging to Farr & Unthank, is being vigorously developed. The shaft is down 300 feet, and the vein, which at first was quite narrow, is widening out. At this depth it averages \$400 per ton; where it was first struck, it carried virgin silver, yielding from one dollar to five dollars per pound. This rich ore is being shipped to San Francisco for reduction. At the Lonjarina mine, ore is being extracted and worked in the Derre & Townsend mill. It is argentiferous galena, and averages eighty-five ounces to the ton. The Albatros mine is also being developed, and has a shaft down about seventy-five feet, all the way in good ore. There are many other promising locations in this district, among which may be mentioned the Ortega, Tennessee, Vale of Ranja, Hombre, Plomosa, Union, Dos Amigos, Mentor, and Alpha.

AUBREY, MOHAVE COUNTY.

This is a large district in the southern part of the county, bounded on the south by Bill Williams Fork, and on the west by the Colorado River. The eastern part embraces the Hualapais range of mountains, in which, during the past ten years, a large number of silver ledges have been discovered. At present but little is being done in the district, the rich discoveries in other more accessible sections of the Territory having diverted attention from this promising region. The noted McCracken Silver mine, located in the northeastern portion of the district, was dis-

covered in 1874 from croppings which extended nearly north and south for a distance of ten miles. The vein at the surface is, in some places, eighty feet wide. The best milling ore of the McCracken averaged about ninety-five dollars per ton, although there were narrow streaks which were much richer. This mine has been worked to a considerable extent, and for a time yielded a large amount of bullion. The Signal and Palmetto are adjoining mines on the same ledge, which have also produced a large amount. At the Peabody mine, ore is being extracted and worked in a twenty-stamp mill at Signal.

AZTEC, PIMA COUNTY.

This is an old district, lying east of the Tyndall and north of the Patagonia District, embracing within its limits the southern part of the Santa Rita Mountains. The general formation is granite, syenite, and porphyry. The mineral veins are numerous, and several of great width show distinct croppings for long distances. Evidences of mining which must have been done in olden times occur along these veins. Some of the rich mines worked by the Jesuits are supposed to have been located in this vicinity. The Aztec Syndicate, a large mining company, made this the center of their operations. The Sonoita Creek at a short distance affords plenty of water for milling, and wood is abundant—oak and mesquite being found on the slopes and lower ranges, while higher up on the mountains is pine, which makes good lumber. Springs of excellent water are plentiful, and much of the surface is covered for several months in the year with fine gramma grass. No other district offers better facilities for mining than this. The gulches have all afforded placer gold, and a considerable district lying east is more or less worked in this way. Mr. Campbell, who represents an Eastern company, is now engaged in opening some mines here, with excellent prospects.

BIG BUG, YAVAPAI COUNTY.

Big Bug District is a short distance east of Prescott, adjoining the Turkey Creek District. The Bell, a silver mine, has a shaft 180 feet in depth. The vein, which is thirty inches in width, carries smelting ore assaying as high as \$160 per ton. The Poland, Hamilton, Bullion, and Mountain Boy, belonging to the Stokes Mining Co., and the claims of the Valley Forge Mining Co., are also promising locations.

BILL WILLIAMS FORK, YUMA COUNTY.

This district, located in the extreme northwestern portion of the county, is bounded on the west by the Colorado River and

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on the north by Bill Williams Fork, a tributary of the Colorado. During the excitement in regard to placer diggings in this vicinity several years since, considerable prospecting was done for gold quartz, resulting in the discovery of the Planet, one of the largest and best known copper mines in Arizona. It has been worked at different times to a considerable extent, yielding ore of a very high grade, from which several thousand tons of copper have been extracted. There are many other rich veins of copper ore in the district, and when this region becomes more accessible they will no doubt be worked on an extensive scale.

BLACK CAÑON, YAVAPAI COUNTY.

This district lies immediately east of Humbug and Pine Grove Districts, on the eastern slope of the Bradshaw Mountains. The ledges in this section are almost exclusively gold-bearing; the formation, slate and granite. The Valanciana mine, the oldest location in the district, was discovered in 1860 by Hutchinson and Carpenter. It has yielded about \$45,000. The Iconoclast, owned by Wickenberg and Cochran, has a vein 16 feet wide, which averages \$25 per ton. As the ore is crushed by an arastra, only that which has been closely assorted is worked. This gives \$100 per ton. The Clipper, owned by Curtis and Trotter, is also worked by an arastra, and yields \$100 per ton. The Gillespie has a six-foot vein, which is said to average \$40 per ton. Sufficient rock is taken out to keep two arastras running. The Nigger Brown mine, owned by John Anderson, has ore which pays about \$25 per ton. There are altogether about sixty locations in the district, many of which have been sufficiently prospected to prove that they possess good milling ore. No mills have yet been erected, all the ore being worked by the slow process of arastras. Wood is scarce, and lumber has to be hauled 25 miles.

BLACK HILLS, YAVAPAI COUNTY.

This district, located in a range of hills east of Prescott, is said to abound in gold and silver ledges, but they have not as yet been developed to any great extent. On the western slope large quantities of copper float of a high grade have been found, indicating the existence of extensive ledges of that ore.

BLOODSUCKER, PIMA COUNTY.

This district is situated in the foot-hills of the Bloodsucker Mountains, 45 miles northwest of Tucson. The mines were discovered and several locations made by D. B. Rea and others about January, 1880. The formation is granite, syenite, and slate, containing veins carrying both gold and silver, but gold predominates.

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Springs of good water are found throughout this section, and wood, principally mesquite, is abundant.

BRADSHAW, YAVAPAI COUNTY.

See Tiger District.

BRONKOW MINE, CACHISE COUNTY.

See Tombstone District.

CACHISE, CACHISE COUNTY.

This district is in the Dragoon Pass, on the northern end of the Dragoon Mountains, near the line of the Southern Pacific Railroad. The formation is granite, lime, and porphyry. The ores are mostly carbonates, containing both gold and silver. Several claims have been bonded to Eastern parties, who are now developing them. There is a fair supply of timber on the mountains, principally scrub oak; and water for milling purposes can be obtained by sinking.

CALIFORNIA, CACHISE COUNTY.

This district is situated in the eastern part of the county, embracing a portion of the Chiricahua range of mountains. Its general altitude is from 5,000 to 6,000 feet, giving it a cool and healthy climate. The summit of the main range of mountains is covered with fir and yellow pine, furnishing lumber and fuel. Water of a good quality is obtained from springs and brooks, which are quite numerous in this section. Gayleyville, the principal town, is twenty-five miles from San Simon, a station of the Southern Pacific Railroad. The rock formation of the mineral belt is metamorphic limestone, syenite, and porphyry. The ores are generally argentiferous galena, which have to be smelted. The silver is readily obtained as the ore carries its own flux.

The Texas mine is opened by a shaft 150 feet deep, from which several prospecting tunnels have been run. It is said to have an eight foot vein of ore, which assays \$100 per ton. There is a large amount of ore on the dump. The company have recently put up a smelting furnace, which is in active operation. The Continental mine has a narrow vein of black metal ore of very high grade. It is being extracted, sacked, and shipped to San Francisco. The Roman Beauty, another very promising mine, is being energetically developed, and bids fair to soon rank with some of the producing mines of other sections. The Hell mine has a shaft down 85 feet; the ledge at that point is 14 feet wide, and carries an 18 inch pay streak of high-grade ore. In addition

to the above are the Cleveland, Hardshell, Bruce, Humming Bird, East End, Keystone, and other mines, which are being developed and yielding rich ore.

CASA GRANDE, PINAL COUNTY.

This is a new district, located near the line of Pima and Pinal Counties, thirty miles south of Casa Grande Station, at what was formerly known as Krohn's Camp. It embraces a portion of the Quijota Mountains. The formation is syenite and limestone. Carbonates predominate in the silver ores, in all of which the value of gold is about equal to the silver. The veins are large, with distinct croppings. On a number of locations rich ore has been found, but none have as yet been developed to any great extent. There is plenty of iron wood, and mesquite for fuel, but water is scarce.

CASTLE DOME, YUMA COUNTY.

This is a very large district, in the western part of the county, bounded on the south by the Gila River, on the west by the Colorado, and on the north by Silver District. Many of the mines in this section have been worked almost continuously since 1869, and a large amount of bullion in the aggregate has been extracted. At the present time there is comparatively little activity prevailing, on account, perhaps, of the rich discoveries in other portions of the Territory, which have monopolized general attention.

At Castle Dome Landing, on the Colorado River, is located the smelting works of the Castle Dome M. & S. Co., who are engaged in the reduction of ore from their mine some miles distant. In addition to this, large quantities of ore are sent to San Francisco for reduction. The district contains both gold and silver ledges, and in some localities considerable placer gold has been extracted.

CAVE CREEK, MARICOPA COUNTY.

This district is located in the northeastern portion of the county, near the line of Yavapai. The mines were discovered in 1875 by H. C. McDonald and William Hicks. The formation is granite and slate. Some of the ores are free milling, while others contain base metal, and are rebellious. Wood and water are abundant.

The Panther mine, owned by a New York company, is taking out good ore, and are about to erect a forty-stamp mill. At the Galena Prince mine, owned by Philes and Chaney, a good quality of argentiferous galena is being extracted. Prospecting is going on in the Gold Hill, Maricopa, Phoenix, and Rackensack. The Golden Star Mining Company has a ten-stamp mill. In the

southern part of the district are the Union, Gila Monster, Scarlet, Red Dog, and Deseret, in all of which good ore has been found. It is said that iron ore in large quantities has recently been discovered in this section.

CEDAR VALLEY, MOHAVE COUNTY.

This is one of the districts which was formed a few years ago during an excitement in silver mining in this part of the Territory, consequent upon finding several rich mines. It is situated immediately north of the Aubrey District, and embraces in its eastern part the Hualapai range of mountains, which is undoubtedly a rich mineral region. The district contains plenty of wood and water, thus affording facilities for successful mining. The ores are gold, silver, copper, and lead.

The Arnold and Hibernia were at one time considered valuable locations. The Magendia and Gunsight have both produced good ore. There is one ten-stamp mill in the district.

CHERRY CREEK, YAVAPAI COUNTY.

This district lies near Fort Verde, in the Black Hills. We have no particulars in regard to it except that some large veins of copper ore have recently been discovered. The boundaries of the district are undefined.

CHIRICAHUA, CACHISE COUNTY.

This district, which at present is attracting considerable attention, is located in the Chiricahua Mountains, about 75 miles northeast of Tombstone. The first discoveries were made in 1875 by Jack Dunn, the famous Indian scout. The formation is principally limestone, carrying veins of argentiferous ore, which is easily reduced. Many locations have recently been made in the district, some of which are being energetically developed, and yield ore of a high grade. This section affords excellent facilities for mining, yellow pine and cedar for lumber, and oak and ash for fuel, being abundant; and in addition to this, there is a good supply of water for milling purposes. The mountains rise to a height of 10,000 feet above the sea level, and are noted for the grandeur of their scenery. The foot-hills are covered with a luxuriant growth of grass, and the valleys and mesa lands at their base, thinly covered with trees, present the appearance of beautiful parks.

CLIFTON, GRAHAM COUNTY.

This justly celebrated copper district is situated on the San Francisco River, at a point some fifteen miles above its mouth.

The developments of copper ore here are remarkable; the veins are very wide, with distinct croppings, which can be followed on the surface a distance of three miles, and where broken into they appear more like quarries without any limit to the quantity of ore. At one point, where the cañon cuts across the vein to a depth of 1,000 feet, the ore is shown in the same quantity and quality. The ores are red oxide, grey and green carbonates, and copper glance. These readily reduce into soft copper, equal in quality to that of any other portion of the world. The yield is from 20 to 50 per cent.

The Longfellow and Copper Queen, owned by Leznsky & Co., are unsurpassed by any upon the continent, and are being successfully worked. Seven miles of narrow-gauge railroad connects the Longfellow mine with the reduction works at the town of Clifton. 14,000 pounds of copper per day is the usual yield of this mine.

The Metcalf Copper Mountain, in the same district, might well be classed with mineral wonders. Extensive tunneling is being done here, but no ore is yet being reduced. Besides the above mentioned mines, there are hundreds of others located which must prove valuable when opened.

The Placer gold mines, situated upon the San Francisco River, begin at the town of Clifton, and extend up the river 15 miles. The gravel on both sides of the river is gold-bearing, showing good prospects on the surface, while the bed-rock has shown some rich specimens of coarse gold. A Boston company is now making preparations to wash these placers by the hydraulic process.

DOS CABEZAS, CACHISE COUNTY.

This district is situated in the eastern part of the county, on the northern portion of the Chiricahua Mountains; most of the mines being worked are gold quartz.

The Juniper is a gold ledge of great promise, from which considerable ore has already been taken, some of which yields over \$100 per ton. Ewel Springs joins the Juniper on the west; it has a shaft down 67 feet, and shows high grade ore. The Greenhorn, Bear Cave and Galena Chief, in the same neighborhood, are also extracting ore of a good quality. The Silver Cave, owned by S. R. DeLong, has recently struck ore which assays as high as \$500 per ton. There is one ten-stamp mill and six arastras at work in this district.

EL CAPITAN, GILA COUNTY.

This district is located on the south side of the Pinal Mountains, 18 miles south of Globe City, and contains two groups of mines, named the Pioneer and the El Capitan. They are some-

times included in the Globe District. There is a plentiful supply of wood and water for mining purposes.

The Pioneer, owned by George Scott, has been opened at considerable expense, and 55 tons of ore packed on mules to mills near Globe City, and worked. Packing the ore cost from \$18 to \$30 per ton. Milling cost \$45 per ton. Still there was a margin left more than sufficient to pay the expenses of extraction. This will give some idea of the difficulty of mining profitably in districts where no facilities for reducing exist. The Pioneer South, an extension of the Pioneer, has three shafts and is yielding high-grade ore, which is shipped to San Francisco for reduction. The Great Republic, in the same group, is owned by D. Larry.

In the El Capitan group are the Little Giant, National, Zuni, Farragut, Mohawk, etc., owned by S. A. Lowe; the El Capitan, by Lowe & Anderson; the Burns by Holt & Burns; the Olympic, Topia, and Foote by Hardesty & Oury; Bullion Dust by Anderson & Curry, and several others.

EMPIRE, PIMA COUNTY.

This is a recently formed district in the eastern portion of the county. A number of locations have been made, and considerable prospecting is now going on. The indications of developing good mines are said to be favorable. Among the most prominent locations are the Sunrise, Total Wreck, and Star mines.

EUREKA, YUMA COUNTY.

This district is immediately north of Silver District on the Colorado River. It contains several mines on which a good deal of work has been done, and from which considerable ore has been extracted. At the present time, however, there is no activity there.

GLOBE, GILA COUNTY.

This is a large district, embracing what is sometimes called the McMillen District, which, it is claimed, was irregularly formed, and the Richmond Basin. It includes the Apache Mountains and the northeastern slope of the Pinal Mountains. The Pioneer District bounds it on the west. This section of the country affords fine facilities for mining. The forests of pine and other timber furnish good lumber and wood for fuel, while Pinal Creek and other small streams furnish ample water for milling purposes. The ores are gold, silver, copper, and lead. Large, well-defined veins, with prominent croppings, are found throughout the district, and mineral float frequently covers the surface. The climate is mild and healthful.

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

The Richmond Basin is situated fourteen miles northeast of Globe, in a hollow plateau of the highest part of the Apache range. The mountains immediately back of it, forming the eastern barrier, rise boldly in Alpine peaks hundreds of feet above the plateau. The prevailing rock in this section is porphyry, which forms the walls of the mineral veins, and gives assurance of their permanence. These solid rocks have been rent and torn asunder, and washed away, leaving the silver on the surface of the basin, where so many nuggets of the virgin metal have been found. In this basin are located the Mack Morris, Richmond, East Richmond, Silver Nugget, and other valuable properties.

THE STONEWALL JACKSON, belonging to the McMillen Mining Co., is a noted silver mine located on the northeastern slope of the Apache Mountains. It was discovered by Harris and McMillen in 1875, from float ore and croppings, some of which were exceedingly rich. This mine has furnished some of the richest and most beautiful specimens of silver ore ever seen. Native silver is found sometimes in single wires, sometimes in spiderweb-like forms, and again in pieces which look like fern leaves. It contains no gold. Uninterrupted veins of pure wire silver, many feet in length, run through the pay streak.

The following extract from the report of this company for 1877 will give an idea of the wonderful richness of some of this ore: "The main shaft was sunk directly on the vein of native metal to the depth of ninety feet, and showed a continuous vein of native silver from within ten feet of the surface to the bottom of the shaft, varying in width from two to six inches of solid metal. Intermingled through the metal is found yellow spar, the metal being closely encased in quartz from one to two inches in thickness, the quartz carrying more or less native silver and chloride of silver. In the bottom of the shaft the solid metal was four inches in width.

The following result of ore shipped to San Francisco is taken from the same report: 10,693 pounds of ore returned a total value of \$64,361.71, or an average per ton of 2,000 pounds, of \$12,138.

The working shaft is over 400 feet in depth, surmounted by good steam hoisting machinery. The mine has been explored about 600 feet in depth. Good ore is said to be found in the deepest workings. A large amount of ore was taken from the mine before the incorporation of the present company; since the incorporation the production has been about \$400,000. The company owns a good ten-stamp mill, and besides has all the appliances necessary for working the mine. The office of the company is in San Francisco. J. K. Smith is Superintendent.

THE MACK MORRIS. The main shaft in this mine is now down 350 feet; it is surmounted by good steam hoisting works. Stopeing is going on in the 300 foot level. The ledge is eight feet in width, and said to be improving with depth. Ore has been taken

from this mine that would mill \$4,000 per ton. The company owns a ten-stamp mill, which commenced running on the 1st of July, 1880, and up to the 1st of May, 1881, it had produced 100 bars of bullion of the total value of \$175,944.78. The office of the company is in San Francisco. M. A. Baldwin is Superintendent.

THE ALICE. This is a silver mine which has been producing good ore for some time past. The mine is well opened, several levels have been run, in which stoeping is now going on, and it is reported that there is a large quantity of ore now in sight. The ore is being reduced in the Globe City mill.

THE OLD DOMINION. This company owns the Old Dominion, Keystone, New York, and Chicago copper mines. On the Old Dominion and Keystone there is now 185 feet of shaft and tunnel, all in ore. The tunnel has exposed a large body which can be extracted at little expense. On the New York and Chicago there are 230 feet of tunnel and cuts, showing an immense body of high-grade ore of green and blue carbonates, red oxides, and glance. The company has recently erected smelting works at Bloody Tanks, and will no doubt soon be shipping a large amount of copper. S. L. Burbridge is Superintendent.

THE INDEPENDENCE is a silver mine which has been well opened by shaft and levels. It is now yielding ten tons per day of good ore, some of it paying as high as \$100 per ton.

In addition to the above named the following mines in this district are now reducing ores and producing bullion: *Silver Mines*—Southwest extension of the Alice, Cox & Coplin, Stonewall No. 1, Emeline, La Plata, Centennial, and Democrat. *Gold Mines*—Golden Eagle, Andy Campbell, Golden Nugget, Moffatt, Eureka, and the Munson and its extensions.

The following mines are now extracting rich ore, and some of them have heretofore produced bullion: Fannie J., Capital, Blue Bird, Silver Bow, Big Injun, Red Cloud, Turk, Libby, Rescue, Champion, East Richmond, West Richmond, Silver Nugget, Irene, Miama, Quinn, Sherman, Orion, Great Eastern, Big Johnny, Shambone, Centralia, Metamora, Chromo, Hannibal, and Washington. *Copper Mines*—True Blue, Cadmus, Carrie, Tacoma, and Illinois.

There are many other mines in the district which are being prospected and yielding more or less good ore. Among these may be mentioned the Julia, Fitz John Porter, South La Plata, Silver Fame, Golden Chariot, Red Robin, Chloride, Trojan, and Silver Joe.

GOLD CAMP, CACHISE COUNTY.

Gold Camp is situated in a small detached range at the south end of the Dragoon Mountains, about 11 miles from Tombstone, in an easterly direction. The formation is granite, containing

many large veins of quartz, showing considerable free gold. The ores are not of high-grade, but they are quite uniform in their character, and the quantity being large they will undoubtedly pay when milling facilities shall be afforded. Juniper and oak are found in this section, and considerable is cut and transported to Tombstone. Water is scarce. Some capital has recently been invested by Eastern parties, who contemplate erecting mills. Quite a number of locations have been made, on some of which parties are now engaged in prospecting.

GOLD MOUNTAIN, PIMA COUNTY.

This is a district recently formed in the Horseshoe Basin, Quijota range of mountains, 65 miles west of Tucson. The range is in the shape of a horse-shoe, which gives name to the basin. The mines are dry placers, and were discovered and worked by Indians and Mexicans some fifty years ago. The Apaches in one of their raids killed most of the mining population, and the basin has remained vacant till within a short time. The mining is generally done by sinking a round hole or well to the bed rock, which in most cases is less than twenty feet. The richest earth is then selected and carried to the nearest water, a distance of about six miles, where it is washed. What are called dry washing machines are being tried here, but we have seen no report in regard to their success. The placers are said to be extensive, and if water could be obtained from the Gila River they would undoubtedly yield a large amount of gold.

GREEN VALLEY, YAVAPAI COUNTY.

This district, sometimes called the Verde, is situated in the southeastern part of the county, on the east fork of the Verde River, north of the Tonto Basin. The Verde supplies water constantly, and there is a fine belt of timber and plenty of grass. The ores are gold and silver.

The Golden Wonder is working four arastras on ore which yields an average of fifty dollars per ton. The shaft is now down one hundred feet, and drifts are running on a three and a half foot vein.

The Excursion, located three miles from the Verde, has a shaft down sixty-five feet; at that point the vein is four feet, and assays \$300 per ton. There is now 150 tons of ore on the dump. Judge Porter is the principal owner.

The Zulu, located on Wild Rye Creek, has a shaft of sixty-five feet, and a four-foot ledge; the ore is worked by arastra. The The American and Gowan, on the Verde, are now building a five-stamp mill. The Mammoth has a shaft down fifty feet on a three-foot ledge, from which is being extracted ore that yields forty-five

dollars per ton. There are many other mines being opened in this district.

GREENWOOD, MOHAVE AND YAVAPAI COUNTIES.

This district is located partly in Mohave and partly in Yavapai Counties. The Burro Creek and its branches running through it, afford considerable water for mining purposes, and the mountain ridges afford an abundance of timber. There are numerous mineral veins in this section, and as the country is much broken up, they are found running in all directions. The district is almost inaccessible, having but few roads or trails connecting it with centers of transportation and travel, while the whole territory in and around it is almost uninhabited. It occupies the center of a great mineral region, and no doubt contains hidden treasures of gold and silver which the pick of the future miner will bring to light.

The Burro, Burro Extension North, and Burro Extension South, located on the same ledge, have a vein of ore from ten to twenty feet in width. Considerable work in running tunnels and sinking shafts has been done on these mines, and ore assaying from one hundred to five hundred dollars per ton, extracted; other ledges in the same vicinity have yielded ore of a high grade.

HARCUVAR, YUMA COUNTY.

This is a large, unbounded district, situated on the northern slope of the Harcuvar Mountains. It is known to contain ledges of copper ore, and silver ores have also been reported. The section is comparatively unknown.

HARSHAW, PIMA COUNTY.

See Patagonia District.

HASSAYAMPA, YAVAPAI COUNTY.

This district, embracing Groom's Creek and Crook Cañon, lies immediately south of Prescott. The Big Bug and Turkey Creek Districts bound it on the east, and the Walnut Grove on the south. It has an abundance of wood and water. The general formation is limestone and granite. Most of the veins are gold quartz, many, however, carry argentiferous galena and sulphates, which require smelting; these are the widest. The veins in this section are generally narrow, but they carry very high-grade ores. More good custom mills would certainly prove remunerative, as most of the ores have now to be worked by arastras, or be closely assorted and hauled a long distance, besides, many of the veins are

so narrow that they do not warrant the erection of machinery for their special reduction.

The Victorine is a gold and silver mine, the ores of which are high-grade, and are being worked by an arastra. The Wakefield, owned by Hutchins & Behm, is also worked by an arastra. The ore pays eighty dollars per ton. The Palace, Curtis, Black Hawk, Berry and Gray Eagle are being prospected and promise well. The Minnehaha, owned by C. A. Behm, has produced very high-grade ore. The Providence is an extension of the Minnehaha, owned by Hutchins & Co., which has given good prospects in horn silver and green chlorides. On the Benjamin considerable work has been done; some selected ores from this mine were sent to San Francisco, and yielded from \$300 to \$1,500 per ton. The Governor Fremont, owned by Fred Williams, is reducing pay ore by means of an arastra. The Canadian was opened several years since, and has been worked to a considerable extent. Some ore from this mine shipped to San Francisco, yielded \$500 per ton. The Nevada, Adel, Happy Boy, and What Cheer, have all produced high-grade ores. The Lone Star has now on the dump 100 tons of good ore. Four steam arastras have recently been erected by the Jersey Mining Company, which are now reducing ore from the Harter mine. The Crook Cañon mine, owned by W. M. Buffum, has been steadily worked since 1874. It has a shaft down 210 feet, and a good ten-stamp mill. The Consolidated Bodie has a good vein of smelting ore, from four to ten feet in width. The company is about to erect a smelter.

HELVETIA PIMA COMPANY.

See Santa Rita Placers.

HORSE SHOE BASIN, PIMA COUNTY.

See Gold Mountain.

HUACHUCA MOUNTAINS, CACHISE COUNTY

Twenty miles southwest of Tombstone, embracing what is known as the Hartford District, contains innumerable ledges of gold, silver, and copper, from their base to the tops of the loftiest peaks, nine thousand feet above the level of the sea. The first discoveries may be said to have been made in 1878, when the Wisconsin, Undine, I X L, and other claims were located. Since that time considerable prospecting has been done, resulting in the discovery of silver ores assaying as high as \$600 to the ton; also copper ores assaying as high as 65 per cent. Quartz ledges have also been found in Mormon Cañon, Dublin Cañon, and other places, showing considerable free gold. The formation is principally lime-

E. IRVING & CO., Phoenix, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

stone and porphyry; ores, galena and carbonates. In Montezuma Cañon several locations have recently been purchased by the Neptune Mining Company, of New York, who are now erecting extensive smelting works at Hereford, on the San Pedro River, for the reduction of their ores. Timber of different kinds, including pine, oak, ash, walnut, maple, hemlock, and mesquite, is abundant, and on the east side of the mountain some wild black cherry trees are to be found. A large quantity of lumber and timber for building and mining purposes is transported to Tombstone. Water is plentiful, and rivals in excellence that of the Sierra Nevadas. The scenery in this section is magnificent, and the climate unsurpassed, there being no great extremes of heat or cold.

HUALAPAI, MOHAVE COUNTY.

This district is situated in the central part of the county, embracing within its limits a large portion of the Cerbat Range, which contains innumerable ledges of gold, silver, and lead, some of which have yielded very high-grade ore. This section was prospected as early as 1857, but the Indians were then so hostile as to prevent mining operations from being carried on to any great extent. Some years later, when the savages had been partially subdued, prospecting was resumed, resulting in the discovery of very rich ledges of gold and silver. Many locations were then made, and several mills for the reduction of ore erected. Among the prominent mines discovered and worked at that time may be mentioned the American Flag, New York, Mocking Bird, Fontenoy, and Metallic Accident, which yielded ore assaying from \$100 to \$500 per ton. Up to this time there have been about 2,800 locations made in the district; but the section being so isolated from the rest of the world has greatly retarded mining operations, and at present but little work is going on. With the advent of the Atlantic and Pacific Railroad, which is now fast approaching, this section will no doubt rival many others in the Territory in the production of gold and silver. The climate is exceedingly pleasant and healthful, and sufficient wood and water can be obtained for mining purposes.

HUMBUG, YAVAPAI COUNTY.

Humbug is in the extreme southern part of the county, bounded on the north by the Tiger and Pine Grove Districts, and on the west by the Weaver District. The Humbug and Cottonwood Creeks run through it. The Tip Top Mining Company's property consists of 4,500 feet on the Tip Top ledge, and 1,500 feet on the Foy ledge. The Foy ledge has been prospected to the depth of 120 feet. The shaft on the Tip Top is now down 550 feet. Five levels have been opened and worked. The vein of

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ore is narrow, which makes the mine expensive, a large force being required to keep a ten-stamp mill supplied with ore. The ores are chlorides, black sulphates, horn silver, ruby silver and native silver. The average value of the ore is \$227 per ton. The mine has produced \$1,100,000. Its stockholders have been assessed \$170,000. The company has a White & Howell roaster and a ten-stamp dry crushing mill, located at Gillette, eight miles from the mine. The ore in the lowest level is said to be equal to any heretofore extracted.

The Virginia, Nos. 1, 2, 3 and 4 is a silver location, owned by Messrs. Rodenburg, Suhr and others. On No. 2 a shaft has been sunk 147 feet and several drifts run. The vein is three and a half feet. Ten tons of assorted ores were recently shipped to San Francisco, which yielded \$1,187.57 per ton. At the deepest point the ore is said to be improving. The Cross Cut, owned by Marks, Hutchinson & Thom, has a shaft down 100 feet, and several cross cuts. The vein runs at right angles to the general direction in the district. It is from four to fourteen feet, and gives average assays of eighty-four dollars per ton. The Nevada, owned by the same parties, is a narrow vein, from five to fifteen inches, of very high-grade ore. A shipment from this vein sold in San Francisco for \$1,575 per ton. The 76 is a silver mine, located a half mile east of Tip Top, which is being worked through three tunnels. The vein is from three inches to three feet in width. It works \$300 per ton. The Isabella, owned by Fisher & Carpenter, has a four-foot vein. A lot of this ore worked \$300 per ton. The Rescue has just worked thirty tons of ore in the Tip Top mill, which gave \$316 per ton. The Red Bird and Silver Jack, owned by Messrs. Vernon & Co., both produce high-grade ores. The Swilling has milled ores which returned \$400 per ton.

LA PAZ, YUMA COUNTY.

This district is located in the northern portion of the county, about twenty miles northeast of Ehrenberg. It was organized several years since, upon the discovery of rich placer diggings in this section, from which a large amount of gold was extracted. Its remoteness from places where supplies can be obtained, and the scarcity of water for mining purposes has caused a suspension of operations for the present, but when by the means of railroad communication, this region becomes more accessible, no doubt mining operations will be resumed.

MAGAZINE, MARICOPA COUNTY.

This district, located in Cave Creek Basin, in the northern portion of the county, was organized in 1881. It contains the Red Rover, and other locations where excellent prospects have been

obtained. The ledges are remarkable for their width and the prominence of their croppings. Quite a number of locations have been made, upon some of which work is being vigorously prosecuted. The veins carry copper and silver.

MARTINEZ, YAVAPAI COUNTY.

This is a large district, in the southwestern portion of the county in which at present, but very little work is being done. It embraces the head waters of Date Creek, and also Date Creek Mountains. In it are ledges of gold, silver and copper, and also gold placer diggings. The Mayflower, Cumberland, and Arizona Miner are silver ledges, from which ore giving good assays have been obtained. Some ledges containing rich copper ore, have also been found.

MAYNARD, MOHAVE COUNTY.

This district is located in the central portion of the county, between the Hualapai District and the line of Yavapai county. It embraces within its limits, the Peacock Mountains, which are said to contain numerous ledges of good silver ore. In it is the Hackberry mine, which some years since yielded considerable rich ore. A ten-stamp mill has been erected on this property, but it is now lying idle. The inaccessibility of this region, and greater attractions elsewhere, has caused an almost entire suspension of mining operations at present. Wood and water for mining purposes are abundant.

M'MILLEN, GILA COUNTY.

See Globe District.

MINERAL CREEK, PINAL COUNTY.

This district is situated in the southern portion of the county, near the Gila River. The first locations were made in 1875, by D. G. Chilson. The general formation of rock is porphyritic slate. The ores are chlorides of silver, carrying gold, silver predominating. They are generally of low-grade, but still it is believed that they can be milled at a profit. The Mineral Creek Mining Company have sunk a shaft eighty feet on their mine, and have a five-stamp mill partly erected. Good copper ore has been found in this section, and the Pinal Copper Mining Company has erected smelting works at Riverside for the reduction of ores from their mine. The Keystone Company have also found good copper ore, and are developing their ground.

L. BASHFORD & CO., PRESCOTT, A. T., Headquarters of Mining Men.

MOOR, MARICOPA COUNTY.

This district is situated about eight miles east of the town of Gillette. It was first discovered in 1877, by William Moor, who, with others, located some twenty different claims, and organized a district. The first discoverers claimed to have found a deposit of tin, but subsequent investigation proved that they were mistaken; several gold quartz claims, however, were found and worked to a considerable extent by means of arastras, paying very handsomely. The most promising of these mines are the Magna Charta, Gold Note and Plainwell, a group owned by Messrs. Nilson, Carpenter, and Hutchinson, of Prescott. The deepest opening on these claims does not exceed forty feet, but several show well-defined veins of gold-bearing rock, from three to six feet in width, averaging thirty dollars per ton. The district is very favorably situated, having a good wagon road running through it, plenty of water, a first-class mill site, and considerable wood. On the north of this district are found copper prospects, but no developments have been made.

MYERS, MARICOPA COUNTY.

This district is located in the Esperanza Mountains, in the southwestern portion of the county. Gold was discovered in this section many years ago, but the silver ledges which are being worked were discovered in 1878. The Gunsight group, embracing several gold and silver ledges, has been worked to a considerable extent, and a large quantity of high-grade ore extracted. Some sent to San Francisco for reduction, is said to have yielded from \$700 to \$1000 per ton. The company proposes to soon erect a forty-stamp mill. The Silver Girt, on an adjoining lode, has yielded some rich ore, but has not as yet been worked to any great extent. In addition to these mines are the McLellan, and other locations, where excellent prospects have been obtained.

OLD HAT, PIMA COUNTY.

This district is situated in the northeastern part of the county, about forty miles from Tucson. It embraces a portion of the Santa Catarina Mountains, which are covered with forests of pine and other timber. Springs of good water are numerous, and the climate delightful. Considerable prospecting has lately been done, resulting in the discovery of rich ores. The Apache Girl, one of the most prominent mines, is being vigorously worked, and yielding high-grade ore. The extension of this mine is also being worked with good success. The American Flag and Oracle have been developed to a considerable extent by shafts, the for-

mer to the depth of 125 feet, showing good ore. The Kearsage and Imperial are also developing their mines, and the latter are crushing their ore in a Huntington mill, which has recently been erected. In addition to these are many other promising mines which are being vigorously worked.

ORO BLANCO, PIMA COUNTY.

This district is located in the extreme southern portion of the county, being bounded on the south by Sonora. The mines in this and adjoining districts were worked by the Mexicans many years ago. Some were remarkably rich, and gave Arizona a reputation for mineral wealth long before the territory came into our possession. In many places evidences of early mining are to be seen. When the Old Ostrich mine was opened some years since, the skeletons of the miners were found inside, and also small piles of ore ready to be carried to the surface, indicating that the workmen had been surprised and murdered by the Apaches. The district contains many rich ledges of gold and silver, some of which have been developed to a considerable extent. The Warsaw mine has a large body of good ore, which improves as depth is attained. It is developed by a shaft 125 feet deep. The Silver Wing has a four-foot vein which presents a remarkable variety of ores, such as sulphurets of different colors, stephanite, chlorides, and gray carbonates, some of which are very rich. The Blue Wing is being vigorously worked and yielding good ore. The Arizona Southern Mining and Milling Co. of Philadelphia own several locations containing high-grade ore. The San José Co. have recently had some ore milled which yielded upwards of \$1,000 to the ton. The Orion, Osceola, Yellow Jacket, and Dictator are excellent mines, and are being energetically developed. In addition to these, are many other promising locations too numerous to mention. This section of the Territory affords every facility for mining, wood and water being abundant and the climate delightful.

PAJARITO, PIMA COUNTY.

This district is located about 75 miles south of Tucson. The first locations were made in 1877, and the district organized in 1880. About fifty claims have so far been sufficiently developed to prove that they have paying ores. The Pajarita Mining Co., incorporated under the laws of West Virginia, J. M. McArthur, Superintendent, are taking out ore which assays \$100 per ton. The Gold Mountain Tunnel Co., C. P. Sykes Superintendent, are also developing their claims; the formation is porphyry, ores principally chlorides. Wood and water are abundant.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

PALMETTO, PIMA COUNTY.

This district is situated on the western slope of the Patagonia Mountains, about twelve miles east of Calabasas. The ledges are not generally as large as those on the eastern slope, but contain ore of a very high grade. Wood for fuel and mining purposes is abundant, and water can be obtained by sinking. The Tempest mine, owned by Stockton and Sutton, has a four-foot vein, from which several tons of high-grade ore has been extracted. The Bullion, owned by Walker & Co., has a two-foot vein giving high assays. Some of this ore has been shipped to San Francisco, and yielded sufficient to pay for the developments thus far made. On what is called the Lewis ledge are several locations, promising well, which are now being developed by shafts.

PATAGONIA, PIMA COUNTY.

This district is in the southeastern part of the county, on the eastern slope of the Patagonia Mountains. It embraces Harshaw and Washington Camp, each with its group of surrounding mines. The district has a most salubrious climate, and an abundance of wood and water. The Hon. P. Hamilton, Commissioner for the Collection of Mineral Resources, gives the following description of this rich section of the Territory:

“He who bestowed on this region so uncouth an appellation as ‘Patagonia,’ must certainly have had a depraved conception of the eternal fitness of things, for surely nothing could be less suggestive of the barren plains, ice and fogs, and gigantic savages, than this mountain paradise of Southern Arizona. Elevated about 7,000 feet above the level of the sea, its gently sloping mountains covered with a luxuriant growth of grass and crowned with oak and cedar, with beautiful lawn-like valleys lying between, it is the most delightful portion of the Territory that your correspondent has yet seen. Washington Camp is situated about nine miles almost due south from Harshaw, and less than four miles from the Sonora line. About three miles from Harshaw is a lovely little flat among the hills, where are the ruins of the smelting works of the Old Mowry Mine, owned and worked by Lieut. Mowry of the U. S. Army before the Civil War. A collection of adobe ruins is all that is left of what was once the liveliest mining camp in Arizona. The lofty brick chimney is still standing, a mournful monument to extinct enterprise and former active life. It is said that 400 Mexicans and their families were at one time employed at the mine and smelter. Apache warfare and civil war must answer for the destruction of this once prosperous mining enterprise. The Old Mowry Mine is now owned by parties in Tucson, and nothing is left to tell the stranger in

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these parts of the untiring labors and unceasing efforts of that true friend of Arizona, Sylvester Mowry, save the legend on the capping of stone near the top of the chimney, 'Mowry Silver Mine, 1861.'"

At La Noria are located the smelting works of the Holland Mining Co., and at the same point the W. C. Davis Co. are erecting works of a similar nature.

The mines of Washington occur in limestone and porphyry, and are generally immense bodies of low-grade carbonate and galena ore. The Davis mine has a shaft 150 feet, and is thoroughly opened by crosscuts and levels, showing ore in places, twelve feet wide. About forty men are employed on the Ohio, which is producing large quantities of sulphuret ore. It is owned by the Washington Pool Co., which has a dozen other claims. The Belmont is one of the oldest locations in the district, and was worked during Apache times. It has a shaft down over 100 feet, and has nearly thirty feet of low-grade ore. The Holland is also a large ore body. It has been under the management of Hon. J. K. Luttrell, but the attempt at smelting has not proved a success, and it is claimed that the ores need roasting and milling. Work has been stopped on this property for the present, but it is said will soon be resumed. The Silver Bill is also a fine looking property, which is now being steadily developed by Mr. Desloge for an Eastern company. There are scores of other mines in Washington Camp well worthy of mention, but space forbids. One thing can be said, the camp contains the largest bodies of ore yet found in Arizona. That it is low-grade cannot be denied, but with abundance of wood and the Santa Cruz River close at hand, they ought to be worked to a profit.

On the high hills about a mile and a half south of Harshaw, is the Hermosa mine, an immense body of free milling ore carrying chlorides and horn silver. The ore is easily reduced, and five tons to the stamp is the average work of the mill. The mine is opened by shafts, drifts and tunnels. The ore body has been cut at a depth of over 300 feet by a tunnel 700 feet in length, which pierces the mountain from side to side, thus affording plenty of ventilation. West of the Hermosa is the Hardshell, on which D. B. Gillette, formerly of Tip Top, is now operating. Although the developments are as yet but slight, the ore body is fully as large as in the Hermosa, and is said to be fully as rich. Gillette's success in the mining line is still attending him, and it is nearly certain that he has secured another bonanza fully equal to the Tip Top or the Hermosa. Nearly two miles west of the Hardshell is the Trench mine, now owned by Haggin and Tevis, of San Francisco, but worked centuries ago by the Jesuit Missionaries. Some of the finest hoisting machinery ever brought to the Territory has been erected on the property, and the mine is being opened in a thoroughly systematic manner. The main shaft is down 300 feet,

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and two levels have been opened. The Trench is a strong, well-defined vein, with good walls, and promises to become valuable property. The Alta mine, south of the Hermosa—on which there is a shaft 100 feet—is not being worked, but it is said will soon resume operations. These are the leading mines of Harshaw Camp, and they give employment to nearly 200 men, which makes it one of the liveliest in Arizona. In the way of wood, water and delightful climate, it is not surpassed in the Territory, and its future is most encouraging.

The Hermosa Mining Company's mill is one of the most complete institutions of the kind on the Coast. Everything is done on the automatic principle, and but little manual labor is required. It is turning out at present from \$60,000 to \$75,000 per month, and is not running to its full capacity, owing to a scarcity of water.

This company commenced working ore on the 20th of August, 1880, with the following result. Value of bullion or silver bars produced from August 20th to November 30th, 1880, \$275,654.49. Value of silver bars from November 30th to December 31st, estimated \$90,000; total, \$365,654.49.

PECK, YAVAPAI COUNTY.

This district lies southeast of Prescott and is bounded on the north by Turkey Creek District, and on the west by Walnut Grove. It contains gold and silver ledges, some of which are remarkably rich. The Peck mine, the most noted in the district—was discovered in 1865, and the richness of its ores created quite an excitement in the vicinity. A ten-stamp mill was erected, and the mine worked continuously for several years, yielding a large amount of silver. The Silver Prince, on a parallel lode, has also yielded a large quantity of high-grade ore. The Black Warrior, in the same vicinity, is also noted for its richness. In all of these mines are found beautiful specimens of wire silver. At present but little work is being done in the district, but ere long it will no doubt be the scene of active mining operations. A good supply of wood and water for mining purposes can be obtained in this section.

PIONEER DISTRICT, PINAL COUNTY.

The largest and most important portion of this noted district lies in Pinal County, another portion overlapping into Gila and Maricopa Counties. Upon the discovery of the renowned Silver King mine in 1875, a large number of prospectors entered this section, and many locations were made. Since then prospecting has been vigorously prosecuted, resulting in the discovery of many rich ledges of gold and silver ore. This district also contains ledges

of rich copper ore, but as yet they have not been developed to any great extent; in the near future, however, it will no doubt be producing a large amount of copper as well as gold and silver. The mineral belt is about five miles wide, running the whole length of the district, a distance of about ten miles. On the mountains are found a good supply of timber for mining purposes, and Queen Creek and other small streams furnish an abundant supply of water for milling purposes. The climate like that of other mountain regions in Arizona is unsurpassed.

THE SILVER KING.—This celebrated mine, discovered in 1875, is situated in a little valley on the southwestern slope of the Pinal Mountains. The discovery was made from croppings on the apex of a small hill, which had been left by the elements that denuded and carried off the sedimentary and basaltic rocks that at some previous time covered it and the valley more than a thousand feet in depth, as shown by the sheer precipice to the south. The formation incasing the vein is granite. The mine was first worked by an open cut on the top of the hill, the vein being sixty feet wide and of wonderful richness. It has produced some of the richest specimens of ore on record. Masses have been found of 500 lbs. weight which gave 75 per cent. of silver. Assays of considerable quantities have given the contents at \$20,000 per ton. The mine paid its way from the start, high grade ores being selected and sent at great expense to San Francisco for reduction. Up to January, 1880, the mine had paid in dividends \$710,000. From May 5th, 1877, to December 31st, 1879, the product was \$819,141.58. The dividends for the same period were \$450,000. In the upper levels of the mine the ore was free milling; but as the mine attains greater depth the ore becomes rebellious, and that from the lower levels has now to be worked by the lixiviation process. The ore is now of great variety—native silver, silver copper glance, antimonious fahlore, green, brown, and black zincblende, peacock copper ore, galena, copper and iron pyrites. The gangue is heavy spar quartz and porphyry. The lowest level is now, January, 1881, 408 feet. The vein here has been worked from the hanging wall 36 feet in width, and it is said the foot wall has not been reached. On the 350-foot level the vein is 56 feet wide. It is said that no level has yet been exhausted. The main shaft is now down over 700 feet. In January, 1881, the superintendent reports 2,000 tons of ore on the dump, which will work \$200 per ton.

The receipts for the year ending December 31st, 1880, were \$586,886.68; expenses during the same period, \$352,234.18; dividends, \$75,000; cash on hand, December 31st, 1880, \$159,652.50.

THE WINDSOR MINING Co. own several locations, among which are the Last Chance, Copper Top, and Mountain View. These properties have all been developed to a considerable extent, and are yielding a large quantity of rich ore. The company have a

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

five-stamp mill and furnace at Pinal City for the reduction of their ores, the yield from which adds materially to the stream of bullion which is now flowing from this district. L. Elmore is Superintendent.

THE WIDE AWAKE MINING Co. own the Gem, a gold mine which has a four-foot ledge carrying high-grade ore. This company have a ten-stamp mill on Queen Creek, near their tunnel. All the machinery is new, of the latest improved pattern, and will work about 18 tons of rock per day. It is said the ore will average about \$45 per ton, and that it costs about \$6 per ton for mining and milling. A. Showers is Superintendent.

THE ALICE BELL Mine, situated about two miles from Silver King, is developed by a shaft over 100 feet in depth, from which several cross-cuts have been run. Ore of a very high grade has been found, resembling in many respects that of the Silver King. Good hoisting works have been erected, and the mine is being energetically worked.

THE EASTLAND MINING Co. own the Tilden Mine, which adjoins the Silver King on the east. They have erected extensive hoisting works and are sinking a two-compartment shaft, which is now over 100 feet in depth, and progressing at a rate of about four feet a day. The engine is forty-horse power.

The Pike mine is situated about half a mile north of the Silver King. It is developed to a considerable extent, and is yielding high grade ore. Equal in merit as regards ores or location to the last mentioned mines, are the Lewis Consolidated, Surpriser, Northern King, Silver King South, Bilk, and Mowry mines, all of which are being energetically developed. In addition to the above are the Belcher, Eureka, Webfoot, Union East, Union West, Telegraph, Cedar Tree, James A. Garfield, Silver Queen, Athens, News Letter, Helpmate, Redeemer, London, Orphan Boy, Black Diamond, Emma, Silver Duke, Béebe, Columbia, Silver Belle, Martinez, Santa Maria, Pinal Chief, Blue Bird, Victoria, New Year, and others, which have been more or less developed, and from which good ore has been extracted. At Happy Camp, about three miles from Pinal City, is the Uncle Bill, Augustin, Leon, Lancing, Rockland, Hard Scrabble, etc., which are now being worked and yielding good ore.

POORMAN'S, YUMA COUNTY.

This new district, situated in the western part of the county, has recently attracted considerable attention, and prospecting on a number of locations is vigorously going on, notwithstanding the hot weather and the difficulty of obtaining wood and water. The latter obstacles can, however, be overcome by the erection of mills and furnaces on the Colorado River, and the construction of a wagon road from the mines to that point. The ledges in this

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district are large and well-defined, the croppings frequently standing up for long distances, eight to ten feet in height. Float ore is found in great abundance, and with good facilities for reduction, there is but little doubt that large quantities of it could be profitably worked. The ores are generally of a smelting quality, although free milling ore is also found.

Considerable prospecting has been done on the Amelia, and recently the owners have commenced sinking a new shaft four by six feet, on the ledge. It is now down thirty feet, all the way in good ore, with about eighteen inches of fine galena, which will average 100 ounces to the ton. The company have erected a boarding-house and blacksmiths' shop and are now prepared to push developments vigorously. The Boston is an adjoining claim, on which a vein of high-grade chloride and sulphuret ore was recently discovered. The Diamond, a short distance off, is located on a ledge nearly parallel with the Amelia, and thirty feet in width, showing a six-inch vein of very rich ore. Opposite to the Diamond, at a short distance, is the Florence Caton, which has three ledges cropping out of the ground, in places, ten feet in height, and it is claimed that these croppings will all pay. The Luz is the north-east extension of the Diamond; the croppings on this mine rise twenty feet above the mesa, and are thirty feet in thickness. In addition to the above, are the Brilliant, Russell, Myers, Hoodlum, and Thistle Dew, which are said to be valuable locations.

SADDLE MOUNTAIN, PINAL COUNTY.

This district is situated on Gila Cañon, 50 miles east of Florence. The first locations were made in March, 1880, since which time some work has been done on several mines, developing rich silver ore, carrying gold. A shaft 80 feet deep has been sunk on a claim bonded to San Francisco parties, in which the ore has increased in value as depth is attained. The formation is limestone. The ores are black sulphates. Some ore has been milled averaging \$156 to the ton for pulp. About one hundred locations have so far been made. Timber is abundant, principally pine. Water can be easily obtained from the Gila river the year around.

SAN FRANCISCO, MOHAVE COUNTY.

This district is situated in the western part of the county, bordering on the Colorado River. A number of mines were located here a few years ago, and worked to some extent. The long distance to centers of trade, and the high rates of freight have been great draw-backs to this section, but on the completion of the 35th Parallel Railroad these evils will be remedied, and this section will take a new start on the road of progress.

SAN PEDRO, GRAHAM COUNTY.

This is a new district, situated in the western portion of the county. The Walston, a silver mine, has a shaft down eighty feet, and is extracting good ore. The Pioneer is also being vigorously prospected, and taking out good ore. The Sample mine has a shaft 100 feet in depth. At this point a cross-cut exposes some ore which sparkles with virgin silver.

SANTA RITA PLACERS, PIMA COUNTY.

These placers are situated in what is known as the Helvetia District, about 55 miles southeast of Tucson. The principal mining camp in the district, known as Greaterville, is at an altitude of 5,000 feet above sea-level. About three miles west of the town in the Santa Rita Range is a peak known as Old Baldy, which is one of the highest in Arizona, being about 10,000 feet above the level of the sea. The hills and mountains are covered with oak, pine, and cedar, and the climate is delightful. These extensive placer diggings are very rich, and although they have as yet only been worked in a primitive manner, have yielded several hundred thousand dollars worth of gold. The lack of water prevents them from being worked to any great extent, except during the rainy season, when quite a large number of miners are busily engaged in washing the dirt. The Santa Rita Quartz and Placer Mining Co., have considerable ground which pays well for working. The district also contains many quartz ledges, which are being developed, and show rich ore. From three to six miles northwest of Greaterville are extensive and rich copper ledges, which when developed will no doubt yield a large amount of metal.

SILVER, YUMA COUNTY.

This district lies in the western part of the county, and is bounded on the west by the Colorado River, and on the south by Castle Dome District. The great heat and scarcity of water have undoubtedly been great drawbacks to the development of the mineral resources of this section, but owing to the rich discoveries which have been made, all difficulties will in time be overcome, and the Silver District forced to yield up its hidden treasures of gold, silver and copper.

The Red Cloud is the most remarkable mine in the district. The croppings present a solid body of ore, standing up to the height of forty feet, and are 200 feet in length, and twenty feet in width, assaying from fifteen to 4,000 ounces of silver to the ton. The average of the whole mass is about \$100 per ton. It is said that three miners who arrived in Yuma with no other capital

than a shot gun, which they put up as security for supplies, went into this district, where on the mesa at the foot of these croppings, they discovered in the soil, nuggets of pure silver, of which they gathered in a few days, \$9,000 worth, and also located the ledge, which they sold for a handsome sum. The croppings are being taken down by means of a wide cut running lengthwise of the whole ledge. An incline shaft has been driven down on the hanging wall, 170 feet in depth, all in ore. At 130 feet a crosscut shows the ore thirty feet in width, and as good as at the surface. A vertical working shaft is now being sunk. The present production of the mine is reported to be \$50,000 per month.

The Iron Cap mine has a shaft down 200 feet; the vein at this depth is fifty feet wide, and said to be of the same character as that of the Red Cloud.

The Chicago Company has large interests here, and is making arrangements to commence work. The Silent is a silver mine, on which a large amount of prospecting has been done in shafts, inclines and crosscuts. On the 193-foot level is a large body of low-grade carbonate, carrying a narrow vein of high-grade ore. The incline shaft is down 278 feet, at which depth ore is found which gives 200 ounces of silver to the ton. The Emma, on the same ledge, is extracting ore from a three-foot vein on the fifty-foot level. The Klara is a silver mine of most excellent prospects. The croppings on this mine are wide and rich. The crosscut at a depth of thirty feet, shows twelve feet of carbonate ore which is said to give eighty dollars per ton. Silver Glance is being prospected and opened by a tunnel, which is now in 100 feet. This mine shipped some assorted ore to San Francisco, which yielded \$1,000 per ton. The Black Rock and Pacific are represented to have large quantities of good ore in sight. The shaft in the Black Rock is down 100 feet. The Princess, Yuma Chief, Waco and Wilmington are also considered valuable locations. In this district are also found some immense ledges of lead ore, carrying more or less silver.

SILVER BELL, PIMA COUNTY.

Some years ago, an English company erected a smelter in this section and worked the copper ores of a mine called the Young America, but the enterprise did not succeed, and the ground was abandoned. New discoveries have been made, and a district recently formed. It is situated in the northern part of the county, about fifty miles from Tucson. The ores are gold, silver and copper. The veins are numerous, well defined and large.

The Abbie Waterman is a silver mine of great promise, which is being vigorously prospected by the owners, Messrs. Gates, Knox and Murphy. They also own several of the adjoining mines. The Amelia, owned by P. Woods, is being prospected by

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a tunnel. It has a fine vein of carbonate ore. The Monarch shows a vein of copper silver glance, from five to twenty feet in width. There are many other silver locations, on which prospectors are now engaged, and from which ore is being extracted, but perhaps the greatest activity is in the copper group of mines around Pelton. The Old Boot, Blue Coat, and Southern Beauty, are described as forming a mountain of copper, similar in character to the Great Copper Queen mine at Bisbee. These mines belong to the Huachuca Mining and Smelting Company, of which Messrs. Scott, Zeckendorf and E. N. Fish are the principal owners. This company has a smelting furnace, and keep a large force of men at work. W. B. Scott is Superintendent. The Arizona, Pima and Mountain Chief are also copper mines, reported to show large bodies of good ore. A good many men are now employed at this camp, which gives it a busy, thriving appearance.

SILVER MOUNTAIN, YAVAPAI COUNTY.

The following information in regard to this locality is taken from the columns of the *Arizona Miner*:

"Silver Mountain is situated about fifty-five miles south of Prescott and twelve miles south of the Tiger. Running directly through the center of the mountain from north to south is the Mammoth, one of the largest mineral-bearing ledges yet discovered in Arizona. This monster vein crops out boldly for a distance of more than three miles in length, and measures all the way from fifty to three hundred feet in width, bearing both gold and silver throughout its entire length and breadth. From the croppings, ore giving high assays has been obtained.

"Lying parallel with the Mammoth, on the east, is the Excelsior, a vein 50 feet in width, carrying good ore.

"On the west is the Great Western, owned by Kelly & Hutchins, an immense ledge of fine mineral-bearing rock.

"Northeast of the Union claim lies the Mountain King, which is evidently an offshoot from the Mammoth, and is at least two hundred feet wide. There are several other large veins in Silver Mountain in the vicinity of the Mammoth, notably the Snow Ball, Huff, and the Buell."

SWISSHELM, CACHISE COUNTY.

The district is situated between Sulphur Spring and White River Valleys, in the southeastern part of the county, about fifty miles by wagon road from Tombstone. The first locations were made in 1878, since which time considerable prospecting has been done. The formation is generally limestone and quartzite. Galena ores of the smelting varieties prevail, some assaying as high as 200 ounces of silver to the ton. On the mountains is some

timber, principally a small growth of oak and juniper. Water is generally scarce, although in the White River Valley is a small stream which rises and sinks in different places. The altitude is 4,700 feet. The climate is pleasant, with cool nights and refreshing breezes in the summer. The principal locations are the Mammoth, Mountain Queen, Mountain Chief, and Whale, all of which have yielded rich ore.

THE SIERRITAS, PIMA COUNTY.

This district is situated about thirty-five miles from Tucson, and is reached by a good road over a level country, most of the distance. Water is found at a depth of ten or fifteen feet, and sufficient can now be obtained for prospecting purposes. Wood is abundant, the mountain sides being covered with a heavy growth of live-oak timber, while the mesas are thickly covered with mesquite and paloverde. The formation is slate, limestone and quartzite. The ledges are numerous and well-defined, with clearly marked walls, and are seen cropping out from the mesa with as much regularity as in the hills. The numerous remains of smelters and arastras, some of which have been recently utilized, show that at no remote date, this district was the center of active mining operations. The Mexican miners were probably driven away by the Apaches.

Mr. Hughes owns some mines which are being steadily developed, and producing some very rich ore. The Continuation, owned by Brichta, Meek & Co., has been opened in three places on the ledge, showing good ore in each shaft. The vein is four feet wide, inclosed by slate walls, the ore being argentiferous galena, carrying a streak of high-grade copper. Many other locations have been made, some of which are being vigorously developed and yielding good ore.

TIGER DISTRICT, YAVAPAI COUNTY.

This district, situated in the southern portion of the county, is bounded on the north by Walnut Grove, and on the south by Humbug District. The first mining operations were in the placer diggings, which were discovered about twenty years since. Soon afterwards quartz ledges were also discovered and prospected to a considerable extent. The Tiger mine, from which the district takes its name, was discovered in 1871, and for a time vigorously worked, yielding ore of a high grade, which was sent to San Francisco for reduction. In 1877 a three-compartment shaft was sunk, and good hoisting works and a mill erected. Since then it has produced a large amount of bullion. At present work on the mine is suspended, but no doubt will soon be resumed, when the camp will again present a lively appearance. In this district is

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located the Bradshaw Basin Mill, which is at work crushing ore from the surrounding mines. Mr. C. C. Bean, of Prescott, is the agent. In the neighborhood of the Tiger Mine are many other promising ledges that will no doubt soon be developed. The climate of this section is delightful, and wood and water abundant.

TOMBSTONE, CACHISE COUNTY.

This district is located in the southwestern part of the county, between the Dragoon and Whetstone Mountains, the most prominent mines being about nine miles east of the San Pedro River in a low range of hills sometimes called the Tombstone Mountains. Several of these mines have already produced such a large amount of rich silver ore as to give this district the lead of all others, and to form an era in the silver production and material progress of the whole Territory. The climate of this section is temperate and healthful, the altitude being about 5,000 feet above the level of the sea. Wood and water are scarce, the most of the timber for mining purposes being brought from the Huachuca Mountains, while most of the water for drinking and other purposes is brought in pipes from the Dragoon Mountains, a distance of about eight miles.

The first discovery of ore in the district was probably at the old Bronkow mine, referred to more particularly below. The first discovery, however, in what are generally called the Tombstone mines was made in 1877 by E. A. Scheffelin, an energetic and intelligent miner, who sought to penetrate the fatal precincts of the Bronkow Hills, where already three prospectors at different times had been foully murdered. On disclosing his intention to prospect these hills to some miners more timid than he, they informed him of the fate of the former prospectors of the ill-omened district, and suggested that the first work that he did there should be the erection of a tombstone, so that when the country became safe they could find his resting-place, and write his epitaph. These sad associations suggested to him the future name of the district. He however adhered to his resolution, and after a few weeks' prospecting discovered a rich ledge of silver and gold, now known as the Lucky Cuss mine. Scheffelin was subsequently joined by his brother and Richard Gird, both practical miners. In February, 1878, they located the Tough Nut, Contention, and other mines, which have since produced a large amount of bullion. The Hon. P. Hamilton, Commissioner for the Collection of Mineral Statistics, etc., who recently visited this district, says:

"The mineral belt of Tombstone extends about three miles east and west, and four miles north and south. The general character of the country rock is lime and porphyry, the former largely predominating. Quartzite is found in some localities, and on the extreme western edge of the district a granite formation is encoun-

tered. The indications of eruptive agencies are found on every side, showing plainly that this country has been the scene of active natural disturbances in ages gone by. But although the country formation is not one to accord with the theoretical views of gentlemen learned in the schools, the vast ore bodies, rich in chlorides and horn silver, show this spot to have been one of Nature's grand laboratories in times when the earth was young. The ore bodies, as far as can be ascertained, have a general direction east of south and north of west, and nearly all have a dip varying from 60 to 25 degrees. The ore is a free milling, composed mainly of chlorides and horn silver, with some carbonates. Some of the ores show a heavy percentage of gold, while nearly all carry slight traces of lead. The ore is easily reduced—about three tons to the stamp being the average at the different mills. The main ore channel is situated in the low hills which rise immediately south of the town, and has been traced and followed within the limits of the town site. Shafts have been sunk and drifts run under the houses, and the dull thud of giant powder cartridges makes the earth tremble with frequent explosions. The ore bodies of Tombstone district are large—varying from three to twelve feet—and their extraction is less costly than in any camp I ever saw. The ore is hauled to the mills on the San Pedro River, at a cost of \$4 per ton. Nearly 500 tons per day are now shipped, and the yield of bullion is close on to \$500,000 per month. This is a good showing for a camp which did not drop a stamp until last April a year ago.

“There are six mills on the San Pedro, with 125 stamps, besides one 5-stamp custom mill at Watervale, about three miles from town, making in all 130 stamps now in operation in this district. It is almost certain that several new mills will be erected during the coming season. Eleven claims have put up hoisting machinery of the most complete and approved style—most of them having safety cages and every facility for the mining and hoisting of ore. The hillsides are dotted with these structures, and the shrill music of their steam-whistles wakes the echoes of the surrounding hills, and proclaims the dawn of a new era of civilization, progress, and prosperity, where hitherto solitude and savagery have held undisputed sway.”

THE WESTERN. This mine, generally known as the Contention, was purchased from the Scheffelin Brothers and Richard Gird, by J. H. White, its present Local Manager, and W. E. Dean, its present President, for \$10,000. A company was formed and incorporated in 1880, under the laws of California. The stock was divided into 100,000 shares at \$100 each. The mine has been opened by two shafts, situated 500 feet apart and 400 feet in depth, and six levels run, one, 812 feet in length, and the others from 50 to 100 feet. All these levels are in rich ore. The vein averages six feet in width and pays about \$150 per ton. The work-

ing shaft is a double compartment, four and a half by five feet. The steam hoisting works are of the best quality, and capable of working the mine to a much greater depth. The company has a twenty-five stamp mill, situated at Charleston, on the San Pedro River. Twelve consecutive monthly dividends of \$75,000 each, have been paid by the incorporated company, and sufficient ore is said to be in sight to continue these dividends for a long time to come.

THE TOMBSTONE MILL AND MINING COMPANY. This company has eleven locations, several of which have been sufficiently opened to entitle them to the name of mines, and at least three have developed large bodies of rich ore. They are, however, included in one incorporation, prospected and worked by one management, and their results unsegregated. This renders it difficult to give a particular description of any one of them, however much its rank may entitle it to a prominent position. These locations are the Lucky Cuss, Toughnut, Goodenough, Survey, Defense, West Side, Tribute, East Side, Owl's Nest, East Side No. 2, and Owl's Last Hoot. The first two were the first locations in the district. The Toughnut and Goodenough have been the two principal locations worked up to the present time. On these are seven shafts and many hundreds of feet of prospecting tunnels and crosscuts, which have developed an immense quantity of ore, which will be stoped as fast as required for crushing in the mills. Up to the present time, the prospecting tunnels have furnished most of the ore required, and but few chambers have been made. The ore runs from \$35 to \$500 per ton; at last report it was milling \$144 per ton. The vein is very irregular in width, sometimes contracting to a foot or two, and then widening out into a mass forty feet wide. The ores are principally chlorides and carbonates, carrying about twelve per cent. of lead, native silver, horn silver, and polybasite are also found. The company has good steam hoisting works, ore bins and shops, in fact all the necessary appliances for the steady and successful working of this great property. It also has two mills on the San Pedro, running thirty-five stamps. Up to March last, \$1,000,000 had been paid in dividends, leaving in the treasury, \$200,000, and seventy tons of ore were being hauled daily to the mills. Nearly 200 men are employed in the mine. The office of the company is in New York. George Burnham is President, and John A. Church Local Manager and Superintendent.

THE GRAND CENTRAL. This mine is incorporated under the laws of Ohio, where one of its principal owners resides. The capital is placed at \$10,000,000, in 100,000 shares; E. B. Gage is Superintendent. Active work commenced a little over fifteen months ago. The mill commenced crushing ore on the 1st of March, 1881. No dividends have yet been paid. The mine has been well opened by a main working shaft, and several prospect-

E. IRVINE & CO., PHOENIX, A. T., HARDWARE & TINWARE.

ing shafts, and many hundred feet of prospecting tunnels and crosscuts. In making these prospects and opening three levels ready for stopeing, six thousand tons of fine ore have been mined, and are now being hauled to the mill. The main shaft is down 400 feet. The largest development of ore is found in the 300-foot level, where it expands to the width of a hundred feet. The ore is of the same general character as that previously described; somewhat softer and more easily mined and milled. It is estimated that between the floor of the 300-foot level and the surface of the mine there are 80,000 tons of ore which will mill \$100 per ton. Everything in and about the mine is now in complete working order, with a new thirty-stamp mill, and large proceeds may be confidently expected.

THE HEAD CENTER. This mine is incorporated under the laws of California, with a capital stock of \$10,000,000, divided into 200,000 shares. Thomas E. Farrish is its Superintendent. It has a double compartment working shaft, which is now down over 650 feet. Four levels have been opened and partially explored; the first, to the distance of 330 feet; the second, 630 feet; the third, 650 feet; the fourth, which is the 410-foot level, 260 feet. All of these levels disclose a large amount of good ore, similar in character to that spoken of in Contention and Good-enough. The company have just erected new hoisting works of the best style. It has a ten-stamp mill on the San Pedro River, and everything is now ready to commence a steady production of bullion. A strong flow of water has just been struck at a depth of 525 feet.

THE VIZINA is incorporated under the laws of New York, with a capital stock of \$5,000,000, divided into 50,000 shares, 12,500 of which were set aside for working purposes. A small portion of these shares, however, has been sold, as the mine has not only paid all working expenses, but the purchase price also. The mine has three shafts, thirty-six, fifty-six and 380 feet respectively; the latter is the working shaft, over which is placed good steam hoisting works. Only one level has been thoroughly explored in this mine, and from this level fifteen tons of ore are shipped daily to the mill, which returns a yield of \$1,200. A. H. Emanuel is Superintendent.

THE SULPHURET is incorporated under the laws of Pennsylvania; capital stock, \$5,000,000; number of shares, 200,000, with a paid-up working fund of \$40,000. H. Disston is President, and Hank Smith, Superintendent. The mine is opened by two shafts, one 300 feet, and the other over 500 feet in depth; the latter is a double compartment, and is intended for the main working shaft. Over it is erected first-class hoisting works. Two levels have been run, one at a depth of 150 feet, and the other at 350 feet. In both of these levels some ore has been found. Rich ore has recently been found in a crosscut at a depth of 500 feet, and

at the same point a heavy flow of water rushed in, which has to some extent impeded developments.

THE EMPIRE is incorporated in Boston where it is principally owned. W. S. Pollard is President, and D. P. Pierce Superintendent. The shaft in this claim is down about 450 feet. The first level was opened at a depth of 200 feet, and several hundred feet of prospecting tunnels were run. A large body of ore has recently been found on the 400-foot level, which averages over \$200 per ton, and from the winze on the 200-foot level a fine quality of chloride ore is being extracted. The vein on the 400-foot level is large and well-defined, carrying gold and silver. The silver is found in the usual shape of chlorides and carbonates, but the gold is free.

The main shaft is well constructed, four by five feet double compartment; the hoisting machinery is good and the buildings substantial.

THE GIRARD has a good double compartment shaft down over 400 feet, and has erected steam hoisting works. Two levels have been opened; the first at a depth of 150 feet, and the second at 350 feet, showing a 4-foot vein of good ore. There are 600 tons of this ore on the dump, which is estimated to be worth \$100 per ton. It is said there are several thousand tons of similar ore in sight. The company employs 25 men vigorously prospecting.

THE WEDGE CONSOLIDATED. This property embraces two locations of the usual size, trending northwest and southeast along the western slopes of the hill. It was incorporated in San Francisco in January, 1881, on the basis of \$10,000,000, divided into 100,000 shares. It has been worked almost continuously since then. In April, \$4,455.42 were realized from a small parcel of this ore reduced at the Head Center mill. The main incline shaft is now about 120 feet deep. The ore is an admixture of the black oxides of manganese, and other mineral crystalizations. There are now some 200 tons of ore piled on the dump at the mine, while a hundred or so tons more stand in sight in the 100-foot level, ready to be extracted. While much of this ore has given assay values of from \$75 to \$225 per ton, it is probable the average will not overtop \$90 per ton.

THE GRAND CENTRAL SOUTH. This mine was incorporated in San Francisco in January, 1881, with a capital stock of \$10,000,000 divided into 100,000 shares, with \$20,000 paid-up working capital. R. F. Morrow is President, and B. Frank Hall Superintendent. The mine has two shafts 600 feet apart; one is a prospecting shaft down over 150 feet, the other is a double compartment shaft over which hoisting machinery is to be placed. This shaft shows a number of bunches of good ore.

THE MOUNTAIN MAID. This mine, located within the limits of the City of Tombstone, was worked to a considerable extent by Mr. C. Bilicke, its first owner. It now belongs to an incorpor-

ated company; capital stock \$10,000,000. It has been developed by three shafts. No. 1 was sunk in low-grade ore from top to bottom. In No. 2, which is down 150 feet, some rich ore has been found. Shaft No. 3 is sunk on the Goodenough ground to the depth of 95 feet, and from this a tunnel has been run to the Mountain Maid ground, disclosing a vein of high-grade ore assaying \$400 per ton.

The Tranquility, Contentment, Sydney, Bob Ingersoll, Flora Morrison, Hawkeye, Survey, Way-Up and Arizona Queen, are mines of great promise, and are being energetically developed. In addition to these are the Grand Dipper, Stonewall, Gilded Age, Naumkeag, Cincinnati, Winfield, Gentile Belle, True Blue, Hercules, Blue Monday, Intervenor, Phoenix, Tombstone Consolidated, Mamie, Junietta, Little Wonder, Mesa Consolidated, and others too numerous to mention, which have been worked to a considerable extent, and are considered valuable locations.

In the extreme western portion of the district near the San Pedro River are many promising mines; among them the Bradshaw, which is developed by a shaft 300 feet deep. It has a vein of ore from two to six feet in width, carrying rich chlorides and horn silver. In this section is also located the old Bronkow mine, which on account of its interesting history is worthy of a notice.

It was discovered twenty-two years ago by a celebrated German mineralogist of the name of Bronkow, who became interested in the mineral resources of Arizona. He braved untold hardships and Indian dangers in opening this mine, only to fall a victim to the cupidity of his Mexican operatives, who murdered him for the first run of bullion extracted. The mine lay unoccupied from that time, till 1873, when it was relocated by a Mr. Duffield, who was soon after assassinated by another claimant. It was again located by a Mr. Rogers, who a few months afterwards was killed by the Apaches. Thus its three consecutive owners, along with fourteen operatives, came to an untimely end. This vicinity is strewn with graves, and no wonder the miners believe an evil spirit guards the wealth of old Bronkow.

The vein is large and well defined. The ore is argentiferous galena, the lead sometimes amounting to 50 per cent. of its bulk. It is easily reduced, the silver running readily with the lead from the smelting furnace. Assays give as high as \$105 to the ton.

TRINITY, YAVAPAI COUNTY.

This recently formed district is located on Turkey Creek, some 35 miles southeast of Prescott.

The Tuscumbia mine is opened by shafts, drifts, and tunnels in a thorough manner, and has considerable high-grade ore on the dump. The company is now building a ten-stamp mill at Gus' Springs. Trinity mine is supposed to be located on the same vein

as the Tuscumbia, some two miles northward. The shaft on this mine is down 70 feet. At this depth three feet of good ore is found. Immediately north on the same vein is the Sultan, which is now being opened with good prospects, some of its ore giving high assays. In this vicinity are also located the Keystone, Kendall, Peerless, Alice, and Imperial, all of which are being opened, and show some good ore.

TONTO BASIN, GILA COUNTY.

This is a large section which has not as yet been regularly organized into a district, but it has been prospected to a sufficient extent to prove that it contains many ledges of good ore. A shaft has been sunk on the Nash mine to the depth of about seventy feet, disclosing a ledge varying in width from two to four feet. Two arastras are in operation on this property, the ore yielding about sixty dollars to the ton. The Tonto Chief, May-be So, and several other claims, are also being developed with good prospects ahead. This section affords a good supply of wood and water for mining purposes.

TUMACACORI, PIMA COUNTY.

Tumacacori, an old ruined mission, situated in the mountains on the west side of the Valley of the Santa Cruz, was, like Tubac, the center of extensive mining operations many years since. All over this section may be seen the evidences of old mining, and tradition says that near this place was located the Tumacacori mine of wonderful richness, from which the Jesuit Fathers, with a trained band of Indian miners, for a long time quietly extracted immense amounts of silver. A day came at last when the crafty Apache surrounded the mission, and left not a soul to tell the story of its destruction, or even to point out the location of its rich mines. A recent prospector claims to have found this old mine: but whether he has or not, the search in this rich mineral district, cannot fail to bring to light other mines perhaps as rich as Tumacacori.

TURKEY CREEK, YAVAPAI COUNTY.

This district lies southeast of Prescott, and is bounded on the north by Big Bug, and on the south by Peck District. The most noted mine in this section is the Goodwin, discovered in 1864, and named in honor of the person who was then Governor of the Territory. It has well defined croppings, which can be traced a distance of several hundred yards. Upon the original discovery there are two shafts sunk, one sixty and another ninety feet

in depth. In a tunnel run from one of the shafts, it is said ore was found assaying two hundred dollars a ton; but work had to be suspended on account of a heavy flow of water which rushed in at that point. On the Homestead and Morning Glory ledges, near the Goodwin, very high-grade ore has been obtained. There are quite a number of other ledges prospecting well, which when developed will no doubt prove valuable; wood and water are abundant.

TURQUOISE, CACHISE COUNTY.

This district is situated in a small detached range east of the Dragoon Mountains, about eighteen miles from Tombstone. The mineral veins are found in a general formation of limestone. The district received its name from the fact of finding old turquoise workings, which have been attributed by some to the Spanish; while others believe they were worked by the Aztecs, who are known to have admired this gem. Some of these excavations are two hundred feet in length, and from ten to sixteen feet in depth. The silver ores are argentiferous galena, chlorides and carbonates. About one hundred and fifty locations have been made; among which may be named, as most prominent, the Mono, Defiance, Dragoon, Elgin, Contention and Hidden Treasure.

TYNDALL, PIMA COUNTY.

This district is situated on the east side of the Santa Cruz Valley, adjoining the Aztec District, and embraces within its limits the lower ranges of the Santa Rita Mountains. It is one of the oldest and probably one of the richest mining sections in Southern Arizona. In every portion of it, especially at Tubac, the Hacienda del Santa Ritas, and at the mission of Tumacacori, are to be found the remains of arastras and smelters, together with large dumps of ore slag, which proclaim this district to have been in former times the scene of extensive mining operations, in what was then Northern Mexico. It is at least sixty years since any of these works were used. The district affords sufficient wood and water for mining and milling purposes, and in the mountains is found a fine growth of pine timber. Among the most noted mines are the Mercer's group, owned by T. L. Mercer, Campbell's group, Neil's group, Megry's group, Josephine group, Baack & Casey's group, Devil's Cache, and the Arnold and Surprise mines.

VULTURE MINE, MARICOPA COUNTY.

This noted gold mine is located in the northwestern portion of the county, eleven miles east of Seymour. It was discovered in 1863 by Henry Wickenburg, and worked continuously for several years. Two mills were erected at the town of Wickenburg for the reduction of the ore, from which a large amount of bullion

was extracted. Through bad management on the part of those in charge, and hostility of the Apaches, the company were finally forced to suspend operations, and the property was sold for taxes. It was afterwards re-located, and by misrepresentations sold to Mr. Seymour of New York for a big price. This gentleman finding himself victimized, determined to see the speculation through, and went energetically to work to develop the mine. Water was carried through a six-inch galvanized pipe from the Hassayampa Creek to the mine, a distance of fourteen miles, and an eighty-stamp mill erected. These operations, it is said, cost Mr. Seymour \$358,000. When the mill was started, it worked to a charm, and the daily profit from the working of the ore amounted to \$1000, which, together with the sale of stock, soon reimbursed Mr. Seymour for the large amount expended, and left him in the possession of a fortune. The ore vein is an immense ledge of low-grade quartz, which is run through the mill without assorting.

WALKER, YAVAPAI COUNTY.

This district lies about 14 miles south of Prescott. It is five miles long and two wide, and contains over 200 promising locations. The great want of this district heretofore has been reduction works, which are now being supplied by the Lynx Creek Smelting Co., who are putting up a first-class 15-ton smelter, with all the necessary appliances. Wood and water, two great essentials for successful mining, are abundant. The Accidental, one of the oldest locations in the district, of which C. P. Dake is Superintendent, is developed by a shaft 300 feet deep. The ore is worked in arastras, and yields from \$30 to \$130 per ton in gold and silver. C. Y. Shelton owns a group of mines which are highly spoken of, among which are the American Flag, Grey Eagle, Capital, and Eureka. Considerable work has been done on the Fortune and Champion, from both of which good ore has been extracted. The Hidden Treasure, owned by the Yavapai Mill and Mining Co., and the Pine Mountain, are also considered promising mines.

WALNUT GROVE, YAVAPAI COUNTY.

This district is situated south of Prescott, and is bounded on the north by the Hassayampa and on the south by the Tiger districts. It contains gold, silver, and copper ledges, some of which give high assays, but have not as yet been developed to any great extent. Wood and water are sufficiently abundant to afford good facilities for the reduction of ores. The Antelope Copper M. Co., incorporated under the laws of the State of New York, Townsend Cox, President, have recently erected a smelter for the purpose of working some promising properties belonging to them. The company is represented by Mr. C. C. Bean, of Prescott.

WARREN DISTRICT, CACHISE COUNTY.

This district is situated in the southern portion of the county, about 35 miles south of Tombstone, embracing within its limits what is known as the Mule Pass Mountains. This section of the country was one of the strongholds of the Apaches, who for a long time stubbornly resisted all attempts to drive them from it. Here, locked in by rugged mountains, broken up by narrow and steep cañons, these relentless savages found a natural fastness, from which they sallied forth in forays on the settlements of Sonora, stealing cattle and mules, and driving them in such numbers through the principal pass in the mountains as to give it the name of Puerta de las Mulas. The Mexicans often pursued the savages up to the mouth of this pass, but owing to the desperate resistance made, were never able to pierce it. When the Americans obtained possession of the Territory a determined effort was made to dislodge them; and where the Rucker mine is now located, occurred one of the last actions between the Apaches and our troops. Some ten years since, Major Brayton, while in pursuit of Cachise, the famous chief, encamped in these mountains a day or two, to rest his command; and at this time George Warren, his guide, who had been an old miner, observed mineral float, and following it discovered the croppings of the now celebrated Copper Queen mine. He subsequently made an attempt to more thoroughly examine the mines, but was prevented by the hostility of the Indians. In September, 1877, Warren, accompanied by D. B. Rea, and guarded by an escort of United States troops, again visited this section, and made a number of locations. During the same year Captain Jack Dunn, another pioneer scout and guide who entered the pass in pursuit of Indians, discovered and located the Rucker mine, which promises to be another copper bonanza. The Copper Queen was located in 1878 by J. Jones and J. S. Halcro, who did no work on it; and it was jumped by other parties, who finally sold it, together with the Copper King, to W. H. Martin & Co., of San Francisco, for the sum of \$18,000. This firm commenced the erection of a furnace in July, 1880, and on the 15th of September the first bullion was shipped. Since July, 1880, the production has been as follows:

	Tons of ore smelted.	Tons of bullion produced.
August,....1880	.....114	.....33
September, “	.....579	.....159
October,.. “	.....801	.....210
November, “	.....616	.....143
December, “	.....748	.....171
January,...1881	.....718	.....146
February, “	.....	.....158
March,... “	.....	.....152
April,.... “	.....	.....112

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

The Hon. P. Hamilton, who has recently visited the mine, says:

"The Copper Queen, as far as opened, is an immense mountain of ore, averaging over 20 per cent. pure copper. The claim is opened by over 600 feet of tunnels, cross-cuts, and winzes, exposing an ore body 160 feet in length, 120 feet in width, and over 150 feet in thickness. From careful calculations it is estimated that over \$2,000,000 worth of ore is already in sight. A large excavation has been made in the side of the mountain, and the ore is quarried out and wheeled to a chute which delivers it at the smelter, a few feet below. It will thus be seen that the cost of extraction is merely nominal, and Superintendent Williams assured your correspondent that, with his present facilities, he could work ore carrying six per cent. copper."

The mine has recently been sold to a New York company for the sum of \$1,250,000. An additional furnace with a capacity of 30 tons is being erected.

The Copper King adjoins the Copper Queen on the west, and will no doubt when developed yield a large amount of copper. The Neptune Mining Co. own nine or ten locations, and have expended considerable money in opening up some of their properties, which have been developed sufficiently to prove that they are very valuable. This company have recently surveyed a line for a railroad to Hereford, on the San Pedro River, where they are erecting extensive smelting works. The Atlanta and Belle Isle claims lie near the Copper Queen, and have found, in addition to their copper ledge, a large vein of carbonate of lead dipping in the opposite direction. Besides those mentioned above are the Twilight, New York, New Year, Galena, Richmond, Watson, Campbell group, Corbin group, and other mines which no doubt contain rich ore. The mineral belt in this district is about eight miles long and three wide. The ores, which are principally carbonates, are found in large masses or chambers in a limestone formation. Wood for mining and other purposes is abundant, and there is a fair supply of water. There are many persons engaged in prospecting in this vicinity, which, together with the extensive operations at the Copper Queen, makes Bisbee, the central point, thriving town.

WASHINGTON CAMP, PIMA COUNTY.

See Patagonia District.

WEAVER, YAVAPAI COUNTY.

This district is situated in the southwestern portion of the county, and is bounded on the east by the Tiger and Humbug districts. It is sometimes called Weaver No. 2, to distinguish it from another district of the same name in Yuma County. Both

were named after one of the pioneer prospectors of the Territory. The Hassayampa Creek and other streams afford a good supply of water for milling purposes, and the mountain ridges afford a fair supply of timber. The mines in this section are almost exclusively gold-bearing, there being many quartz ledges which prospect well, and also placer diggings which are being worked to a considerable extent, yielding from \$1.50 to \$3.00 per day. In Peeples Valley the Model Co. and the Bed Rock Co. have erected mills, both of which are steadily at work crushing good ore. The Emma mine has been developed by a tunnel 100 feet in length, and an incline 108 feet. The vein is argentiferous galena, carrying some copper, and is from three to four feet in width. It is said to assay from \$20 to \$500 per ton. The Lewis and other companies are also taking out good ore.

WEAVER, YUMA COUNTY.

This district is bounded on the west by the Colorado River, and on the south by Eureka district. It contains gold, silver, and copper mines, some of which were discovered more than twenty years ago, and have been worked at intervals ever since. Gold placers were discovered in this section by Capt. Paulin Weaver, which created considerable excitement, and it is said yielded a large amount of gold. The Colorado mine in this district has been extensively prospected, and ore of a high grade extracted. At present mining operations are almost suspended.

RUINS OF TUMACACORI MISSION.

The ruins of the Mission of St. Joseph Tumacacori, are about four miles from the town of Tubac. The first mission erected, or established in this immediate locality, was consecrated at Tubac in 1750, and was called the Santa Gertrudes Mission. This building was shortly afterward destroyed by Apaches. In 1751 a church was built upon the site now occupied by the ruins above-named. This edifice shared the same fate as that of the Santa Gertrudes Mission at or about the same time. In just fifty years afterwards a new church was erected, and the ruins of Tumacacori constitute what is left of it, it having also been destroyed or partially destroyed by the Apaches eighteen years after its consecration. The seeker after information will discover that the main building was at least one hundred feet in length by fifty feet in width; that it was substantially and elaborately constructed of sun-burnt and kiln-burnt bricks, which were put together with a sort of cement and concrete; that it was well timbered and well roofed, and surmounted by two domes.

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

MINING SUPERINTENDENTS.

*Indicates owner.

ARIVACA DISTRICT, PIMA CO.

Arivaca P. O.

- *Albatross..... — Long
- *Arkansas..... Farr & Unthank
- Arivaca Mill Co..... W. F. Witherill
- Cons. Arizona..... John McCafferty
- Lonjarina..... — Myers
- *Tennessee..... J. H. Means

AUBREY DISTRICT, MOHAVE CO.

Aubrey P. O.

- Peabody..... — Hubbard

BIG BUG DISTRICT, YAVAPAI CO.

Big Bug P. O.

- Stokes..... G. B. Schoonmaker
- Valley Forge..... A. C. Stedman

BLACK CAÑON DISTRICT, YAVAPAI CO.

Gillette P. O.

- *Clipper..... Curtis & Trotter
- *Gillespie..... W. R Gillespie
- *Iconoclast..... H. Wickenburg
- *Nigger Brown..... John Anderson
- *Valanciána..... Carpenter & Co.

CACHISE DISTRICT, CACHISE CO.

Tombstone P. O.

- Gladstone..... M. P. Buffum
- Golden Star..... J. D. Martin
- *Mountain Hope..... Griffin & White

CALIFORNIA DISTRICT, CACHISE CO.

Galeyville P. O.

- *Bruce..... Smith & Co.
- *Clyde..... Murray & Montgomery
- *Continental..... — Upshur
- Hell..... Painter Bros.
- *Roman Beauty..... — Springer
- Texas..... — Reed

CAVE CREEK DISTRICT, MARICOPA CO.

- *Galena Prince..... Philes & Chaney
- Panther..... C. W. Cunningham

CLIFTON DISTRICT, GRAHAM CO.

Clifton P. O.

- *Copper Queen..... Lesinsky & Co.
- *Longfellow..... Lesinsky & Co.

DOS CABEZAS DISTRICT, CACHISE CO.

Dos Cabezas P. O.

- Adriatic..... J. J. Howard
- Baltimore..... Elmer Hill
- Bear Cave..... J. A. Hart
- Cincinnati..... A. P. Johnston
- El Dorado..... J. A. Hart
- Galena Chief..... Thomas Lannon
- Juniper..... John Casey
- Little Ida..... Richard Sigfried
- Mary Emma..... Henry Fitch
- Pioneer..... George Goss
- Pumpkin..... Charles Williamson
- Silver Cave..... S. R. De Long

EL CAPITAN DISTRICT, GILA CO.

Little Giant P. O.

- *Boston..... S. A. Lowe
- *Bullion Dust..... Anderson & Curry
- *Burns..... Holt & Burns
- *El Capitan..... Lowe & Anderson
- *Foote..... Hardesty & Oury
- *Great Republic..... D. Larry
- *Little Giant..... S. A. Lowe
- *Maryland..... A. R. Young
- *Olympic..... Hardesty & Oury
- *Pioneer..... George Scott
- Pioneer South..... W. B. Hellings
- *Superior..... S. A. Lowe
- *Topia..... Hardesty & Oury
- *Young Putnam..... Putnam & Weeks
- *Zella..... Reed & Anderson

GLOBE DISTRICT, GILA CO.

Globe P. O.

- Alice..... William Beard
- Alice, S. W. Extension..... E. C. Thatcher
- American..... Britton Bros.
- *Andy Campbell..... Johnson & Long
- Big Injun..... W. C. Jasper
- Blue Bird..... Frank Thompson
- Buffalo..... Gen. McDonnell

E. IRVINE & CO., Phoenix, A. T., AGRICULTURAL IMPLEMENTS.

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

Capital W. C. Jasper
 *Carrie Erland & Sturgis
 Centennial J. E. Palmer
 *Centralia Lawrence Bros.
 Champion L. J. Webster
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 Democrat W. A. Holmes
 East Richmond F. W. Wilder
 Emeline Jason L. Clark
 Fannie J. W. C. Jasper
 Fitz John Porter... James Anderson
 German Friend..... Charles Hayse
 Golden Eagle..... N. Palmer
 Golden Nugget..... G.A. Newton
 Hannibal Joseph Flournoy
 Independence..... W. C. Jasper
 *Interloper T. H. Mason
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 La Plata M. A. Baldwin
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 Mack Morris..... M. A. Baldwin
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 Red Cloud..... T. C. Stallo
 Rescue L. J. Webster
 Shambone..... James Wiley
 Silver Bow W. C. Jasper
 Silver Nugget..... Joseph Lennon
 *South La Plata... Tracy & Bilderback
 Stonewall Jackson..... J. K. Smith
 Stonewall No. 1... Joseph Chamberlain
 *True Blue Erland & Sturgis
 Turk T. C. Stallo
 *Unknown..... Britton Bros.
 Washington..... E. Faucett
 West Richmond..... M. A. Baldwin

HARSHAW.

(See Patagonia District.)

HASSATAMPA DISTRICT, YAVAPAI CO.

Prescott P. O.

*Benjamin Curtis & Co.
 *Connecticut... Nelson, Tinker & Co.
 Cons. Bodie..... T. M. Alexander
 *Crook Cañon..... W. M. Buffum
 *Dauphin Joseph Dauphin
 *Golden Chariot... Vanderbilt & Co.
 *Gov. Fremont... F. Williams & Co.
 *Hundred and Ten.. Burton, Hughes & Co
 *Huntington..... Wilson & Co
 Jersey W. C. Flint
 *Lone Star Group.. W. N. Kelly & Co.
 *Minnehaha C. A. Behm & Co.
 *Omaha C. A. Behm & Co.
 *Providence..... Hutchins & Co.

*Vanderbilt Vanderbilt & Co.
 *Wakefield..... Hutchins & Behm

HUALAPAI DISTRICT, MOHAVE CO.

Mineral Park P. O.

Cerbat..... John Barry
 Fairfield..... W. H. Hardy
 Keystone B. H. Spear
 Lone Star..... B. F. Grounds

HUMBUG DISTRICT YAVAPAI CO.

Tip Top P. O.

*Cross Cut Marks & Co.
 *Don Pedro..... W. A. Rowe & Co.
 *Homestake..... Marks & Co.
 *Isabella Fisher & Carpenter
 *Last Chance..... Marks & Co.
 *Nevada Marks & Co.
 *Red Bird..... Vernon & Co.
 *Silver Jack..... Vernon & Co.
 *The 76 Urfer & Co.
 Tip Top..... George E. Webber
 *Virginia Rodenburg & Co.

MAYNARD DISTRICT, MOHAVE CO.

*American Flag..... Richards & Co.

MINERAL CREEK DISTRICT, PINAL CO.

Mineral Creek..... Minear
 Pinal Copper Co..... W. A. Bolanger

MYERS DISTRICT, MARICOPA CO.

Gunsight..... B. F. Bivens
 McLellan..... S. G. Williams

OLD HAT DISTRICT, PIMA CO.

*American Flag..... Haskell & Co.
 *Apache Girl..... Zimmerman & Co.
 *Kearsage..... McKay & Bruce
 *Oracle..... Haskell & Co.
 *Wiley Dodge Bros.

ORO BLANCO DISTRICT, PIMA CO.

Oro Blanco P. O.

Ariz. Southern M. & M. Co. H. S. Searle
 Blue Wing..... E. S. Barker
 *B. & S..... E. W. Smith
 *Dictator..... J. Murray Bailey
 Orion..... J. H. Gratacap
 Osceola..... E. H. Cook
 *San Domingo..... Hoskins & Co.

PAJARITO DISTRICT, PIMA CO.

Pajarito P. O.

Gold Mountain..... C. P. Sykes
 Pajarito..... J. M. McArthur

PATAGONIA DISTRICT, PIMA CO.

Harshaw P. O.

Alta.....J. K. Luttrell
 *American.....Corbin Bros.
 *Cabinet.....Dill & Co.
 *Guajalote.....H. D. Bacon
 Hardshell.....R. F. Pixley
 Hermosa.....Covington Johnson
 Trench.....A. McGregor

Luttrell P. O.

Holland.....J. K. Luttrell

Washington P. O.

Belmont.....Thomas Yerkes
 *Chiquito.....E. Longbottom
 *Continental.....E. Longbottom & Co.
 *Dictator.....Joyner Bros.
 *El Campo.....Moraghan & Co.
 *Knickerbocker.....D. B. Rae
 *Mark Twain.....H. N. Bragg
 Patagonia.....Thomas H. Selby
 *Pensacola.....George Campbell
 *Redoubtable.....Allison Bros. & Co.
 Santa Cruz.....Thomas H. Selby
 Silver Bill.....J. M. Desloge
 Washington S. M. Co. P. S. Buckminster
 Washington S. & C. Co....T. H. Selby

PECK DISTRICT, YAVAPAI CO.

Alexandra P. O.

Black Warrior.....T. M. Alexander
 Peck.....William Hardy
 Silver Prince.....T. M. Alexander

PIONEER DISTRICT, PINAL CO.

Pinal P. O.

*Alice Belle.....Ayers & Hodkins
 *Athens.....C. O. Brown & Co.
 *Augustin.....Calhoun & Libby
 *Bebee.....G. N. Sarrick
 Bilk.....M. A. Baldwin
 *Black Diamond.....W. C. O'Boyle
 Cedar Tree.....George De Long
 Copper Top.....L. Elmore
 *Emma.....Duffy, Gorham & Co.
 Gem.....A. Showers
 *Hard Scrabble.....Charles Lund & Co.
 *Hell's Fire.....N. S. Berry & Co.
 *Helpmate.....Plum, Steele & Co.
 James A. Garfield.....P. Connelly
 Last Chance.....L. Elmore
 *Leon.....Charles Lund
 Lewis Cons.....Champion
 *London.....Benton & De Long
 *Monarch of the Sea.....Shields & Co.
 Mountain View.....L. Elmore

Mowry.....M. A. Baldwin
 News Letter.....C. O. Brown & Co.
 Northern King.....A. B. Lawson
 Orphan Boy.....John Botenben
 *Pike.....C. O. Brown & Co.
 *Redeemer.....Plum, Yeager & Co.
 Silver King.....Aaron Mason
 Silver King South.....William Tuttle
 Silver Queen.....G. B. Stoutenburg
 Surpriser.....D. T. Elmore
 Telegraph.....T. E. Benton
 Tilden.....M. A. Baldwin
 Wide Awake.....A. Showers

SAN FRANCISCO DISTRICT, MOHAVE CO.

*Moss.....C. Wright & Co.

SANTA RITA PLACERS, PIMA CO.

Greaterville P. O.

Santa Rita Q. & P. M. Co.....
 James H. Campbell
 Yuba.....E. B. Blanchard

SILVER DISTRICT, YUMA CO.

Silent P. O.

*Black Rock.....Thomas Hughes
 Chicago.....T. D. MacLeod
 Emma.....A. D. Crawford
 Engineer.....G. W. Norton
 Iron Cap.....J. C. McDougall
 *Klara.....T. D. MacLeod
 Nelly Kenyon.....W. Millar
 *Pacific.....Thomas Hughes
 Princess.....G. W. Norton
 Red Cloud.....C. L. Walter

SILVER BELL DISTRICT, PIMA CO.

*Abbie Waterman..Gates, Murphy & Co.
 *Amelia.....P. Woods
 Doxology.....T. M. Williams
 Huachuca M. & S. Co....W. B. Scott
 *Monarch.....Wheatley & Co.
 Spring.....T. M. Williams
 True Blue.....T. M. Williams

TIGER DISTRICT, YAVAPAI CO.

Bradshaw P. O.

Tiger.....C. B. Foster

TOMBSTONE DISTRICT, CACHISE CO.

Tombstone P. O.

Arizona Queen.....Ward Priest
 Contention.....J. H. White
 Contentment.....J. R. Farrell
 Empire.....D. P. Pierce
 Flora Morrison.....J. R. Farrell

E. IRVINE & CO., Phoenix, A. T., FURNITURE, CARPETS AND WALL PAPER.

Gentile Belle.....D. Rich
 Gilded Age.....J. H. Todman
 Girard.....R. H. Upton
 Grand Central.....E. B. Gage
 Grand Central South.....B. Frank Hall
 Hawkeye.....Charles Slicer
 Head Center.....T. E. Farish
 Junietta.....Robert Bane
 Mountain Maid.....D. W. Balch
 Phoenix.....G. L. Upshur
 Stonewall.....B. A. Packard
 Sulphuret.....H. Smith
 Sunset.....D. D. Moriarty
 Sydney.....Bullard
 Syndicate M. Co. of N.Y.....A. H. Stebbins
 Tombstone M. & M. Co.....J. A. Church
 Tranquility.....H. Smith
 Vizina Cons.....A. H. Emanuel
 Way-Up.....J. S. Clark
 Wedge Cons.....W. B. Murray
 Woronco.....E. Dickerman

TYNDALL DISTRICT, PIMA CO.

Tubac P. O.

Baack & Casey's Group...T. H. Baack
 Campbell's Group.....J. H. Campbell
 Devil's Cache.....J. M. McArthur
 Josephine Group.....J. K. Brown
 Megry's Group.....Pasqual Megry
 Mercer's Group.....T. L. Mercer

Neil's GroupDavid Neil
 Surprise M. Co.....A. B. Casey

VULTURE MINE, MARICOPA CO.

Vulture P. O.

Central Arizona M. Co...E. H. Saville

WALKER DISTRICT, YAVAPAI CO.

Walker P. O.

Accidental.....C. P. Dake
 American Flag.....C. Y. Shelton
 Daisey.....C. P. Dake
 Eureka.....C. Y. Shelton
 Hidden Treasure.....J. H. Baker
 Pine Mountain.....N. L. Griffin

WARREN DISTRICT, CACHISE CO.

Bisbee P. O.

*Campbell Group.....George Story
 *Copper King.....W. H. Martin & Co.
 Copper Queen.....B. Williams
 *Galena.....Bland & Blair
 Neptune M. Co.....William Herring
 New Year.....Phil. Gerrold
 *New York.....Duncan & Co.
 *Watson.....J. B. Watson & Co.

WEAVER DISTRICT, YAVAPAI CO.

Antelope Valley P. O.

Bed Rock.....Robert Collins
 Model.....R. C. Powers

Arizona Mail and Stage Line.

J. D. KINNEAR & CO., Proprietors.

LOWEST STAGE RATES.

- Tombstone to Benson Daily.
- Tombstone to Charleston Daily.
- Tombstone to Huachuca Tri-Weekly.
- Tombstone to Harshaw Tri-Weekly.
- Tombstone to Contention City Daily.
- Tombstone to Bisbee Tri-Weekly.

Chartered Coaches can be had at Benson for Tombstone and Return by Giving Two Days' Notice.

Fastest Time and Best Stock.

OFFICE WITH WELLS, FARGO & CO., TOMBSTONE.

MARSHALL WILLIAMS, Agent.

QUARTZ MILLS.

LOCATION,	NAME OF MILL.	OWNERS.	GOLD OR SILVER.	POWER.	NUMBER OF STAMPS.
CACHISE COUNTY.					
Charleston.	Corbin.	Tombstone M. & M. Co.	Silver.	Steam.	20
"	Gird.	Tombstone M. & M. Co.	"	Water.	15
Contention City.	Contention.	Western M. Co.	"	Steam.	25
"	Grand Central.	Grand Central M. Co.	"	"	30
"	Head Center.	Head Center M. Co.	"	"	10
Dos Cabezas.	Pioneer.	Pioneer M. Co.	Gold.	"	10
Emery City.	Boston.	Boston & Arizona S. & R. Co.	Silver.	"	25
Huachuca Mts.	Perini's.	V. Perini & Co.	"	"	5
Watervale.	Hopkins.	Hopkins Mill Co.	Silver.	"	5
GILA COUNTY.					
Globe.	Champion.	Champion M. & M. Co.	Silver.	Steam.	2
"	Globe City.	Globe City M. & M. Co.	"	"	5
"	Golden Eagle.	Golden Eagle M. Co.	Gold.	"	10
"	Irene.	Irene M. Co.	Silver.	"	10
"	Silver Era.	Silver Era M. Co.	"	"	5
"	Townsend.	Townsend M. & Co.	"	"	5
McMillen.	Stonewall Jackson.	McMillen S. M. Co.	"	"	10
Miami.	Miami.	Estate of Jos. Bateman.	"	"	10
Mineral Creek.	Mineral Creek.	Mineral Creek M. Co.	"	"	5
Richmond Basin.	Silver Nugget.	Silver Nugget M. Co.	"	"	5
Stanton.	Mack Morris.	Mack Morris M. Co.	"	"	10
Tonto Basin.	Mazatzal.	Mazatzal M. Co.	"	"	2
MARICOPA COUNTY.					
Oave Creek.	Golden Star.	Golden Star M. Co.	Gold.	Steam.	10
Phoenix.	Grand Canal.	Jett & Powell.	"	"	5
Vulture Mine.	Vulture.	Central Arizona M. Co.	"	"	80
MOHAVE COUNTY.					
Cedar Valley.	Cedar Valley.				10
Cerbat.	Barry.	John Barry.	Silver.	Steam.	5
El Dorado Cañon.	Lincoln.	Lincoln S. M. Co.	"	"	5
Hackberry.	Hackberry.	Hackberry M. Co.	"	"	10
Mineral Park.	Breon & Spear.	Breon & Spear.	"	"	5
"	Welcome.	L. S. Welcome.	"	"	5
Signal.	McCracken.	Peabody M. Co.	"	"	20
PIMA COUNTY.					
Arivaca.	Arivaca.	Arivaca Mill Co.	G. & S.	Steam.	10
"	Cons. Arizona.	Cons. Arizona G. & S. M. Co.	"	"	10
"	Derre & Townsend.		"	"	10
Harshaw.	Hermosa.	Hermosa S. M. Co.	Silver.	"	20
Old Hat.	Imperial.	Imperial M. Co.	"	"	2
PINAL COUNTY.					
Pinal City.	Seventy-Six.	Windsor M. Co.	Silver.	Steam.	5
"	Silver King.	Silver King M. Co.	"	"	20
Queen Creek.	Gem.	Wide Awake S. M. Co.	"	"	10
"	Wheeler & Doran.	Wheeler & Doran.	"	"	2
YAVAPAI COUNTY.					
Alexandra.	Peck.	Peck M. Co.	Silver.	Steam.	10
Arasira Creek.	Hoefer.	Prescott M. Co.	Gold.	"	5
Big Bug.	Big Bug.	William Van Name.	"	"	10
Bradshaw Basin.	Bradshaw.	Bradshaw Mill Co.	Silver.	"	10
Cherry Creek.	Golden Era.	Golden Era M. Co.	Gold.	"	10
Crook's Cañon.	Buffum's.	W. M. Buffum.	"	"	10
Gillette.	Tip Top.	Tip Top S. M. Co.	Silver.	"	10
Groom Creek.	Aztlan.	Prescott M. Co.	Gold.	"	10
Gus Springs.	Tuscumbia.		Silver.	"	8
Hassayampa.	Senator.	Bowers & Richards.	Gold.	"	10
People's Valley.	Bed Rock.	Bed Rock M. Co.	"	"	5
"	Model.	R. C. Powers.	"	"	2
Tiger District.	Tiger.	Tiger M. & M. Co.	Silver.	"	10
Turkey Creek.	Heneezy.		Gold.	"	5
"	Masterson.		"	"	2

E. IRVINE & CO., Phoenix, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

COUNTIES AND COUNTY OFFICERS.

APACHE COUNTY.

Organized in 1879, bounded north by Utah, east by New Mexico, south by Graham and Gila counties, and west by Gila and Yavapai. Area, 20,800 square miles; population, 1880—5,283; county seat, St. John; principal towns, Brigham City, Fort Defiance, Holbrook, St. Joseph, Springerville, Snowflake, Sunset, and Woodruff. The principal rivers are the Colorado Chiquito, Puerco, Zuni, Silver Creek, and the south fork of the San Juan. Resources: mineral, pastoral and agricultural. This county comprises a vast area, greater than the State of Massachusetts, but slightly explored, with resources undefined and undeveloped. Occupying an elevated plateau near the dividing ridge of the continent, it possesses a climate similar to the Middle States of the Union, though perhaps not so severe in the winter. While not thoroughly explored, the greater part has been traversed by surveyors, prospectors, hunters, and tourists, who have reported upon its topography, climate, and apparent resources; its strange Indian tribes, its ancient ruins, and its wonderful cañons. In the southern part roamed the dread Apaches, who have given it the name it bears, written in trails of blood over its fair surface; and in the north are the peaceful Zunis, the rock-dwelling Moquis, and the sheep-raising Navajoes. The Indians of the northern portion of the county are unlike any others found on the continent. The "seven cities of Cibola," so vividly described by the Spanish explorers of the sixteenth century, were probably the seven villages of the Moquis, remaining with but few alterations to this day. The tribe now numbers about seventeen hundred, and live in seven villages on the tops of three cliffs, or headlands of rock, that rise more than six hundred feet above the plains. These almost inaccessible localities were selected, it is presumed, for the purposes of defense against the more warlike tribes. A recent visitor says: "On reaching the villages one finds oneself on a flat ledge of bare rocks, which extends out from the main table, nearly half a mile in length, and from ten to three hundred feet in width. The sides are almost perpendicular. The most populous of these villages, Wal-la-pi, is on the extreme end of the rock, where the width is not over a hundred feet. The water for all purposes is carried on the backs of men and women from a spring near the foot of the mountain, a distance of nearly a mile, while wood is brought eight miles. Here these people have lived longer than they can tell, even from their traditions, and hitherto they have been averse to a change of location, notwithstanding the difficulty of obtaining their necessary supplies, and the distance from

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

their fields and herds. In the extreme north-east, occupying an extensive region, extending into Utah and New Mexico, dwell the large and powerful tribe of Navajoes, numbering some 8,000 or 10,000; a pastoral people, owning great flocks of sheep and bands of horses and cattle. These Indians possess some knowledge of manufacture, are expert, or at least ingenious, in making many ornaments for their bridles and saddles, and are distinguished for the richness and beauty of their blankets. The fact that large numbers of savages dwell and subsist in the region they so tenaciously hold, is convincing proof of its capacity to support a much larger population upon the products of the soil, when aided by the teachings and appliances of civilization. But it is probable that neither agriculture nor grazing, promising as they may be, will constitute the great resources of the county, as in all the region of the central plateau of the continent, mining promises the greatest source of wealth and enterprise. Gold, silver, copper, iron, salt, coal, and precious stones have been found, and in such quantities do they appear to exist, that only the coming of the railroad is required to bring the county forward to wealth equal to any section of the Union. The great diamond excitement of 1873, sent the prospectors through northern Arizona, and in the wild region now comprised in Apache County, many precious stones were found, although the coveted placer of diamonds eluded all search. The prospector then told of great beds of anthracite coal, mammoth veins of copper ore, and mineral indications of every character, which subsequent explorations confirm. Timber is abundant, and the forests of the White, Mogollon, Navajo, and other mountains, will furnish a century's supply for the most enterprising and destructive of people. The White Mountains are in the southern part of the county, forming the sources of the many branches of the White, Black, and Salt rivers, flowing south-westerly to the Gila, and of the Colorado Chiquito flowing north-westerly to the great Colorado. This range is a broad plateau, rising to an altitude of 7,000 and 8,000 feet above the sea, and is well covered with pine forests. This belt of timber has a general width of forty miles and extends north-westerly hundreds of miles. The pines reach a height of seventy feet, and the fir-trees are still higher. A close-grained white oak abounds of excellent quality for manufacturing purposes; and bunch and gramma grasses grow luxuriantly everywhere. Dr. Rothrock, U. S. A., accompanying the Wheeler survey, says: "The district would, in any portion of our dominion, be regarded as one of unusual promise. It is one of the most inviting portions of our country yet remaining for civilization to occupy. Settlers will flock to occupy it." But a few years since the entire region was but the abode of savages, and the white man entered at his peril. Now the Indians are subdued, and are confined to their allotted reservations, and the surveyor, farmer, miner

and traveler are entering upon it and taking possession. The thirty-fifth parallel railroad route which crosses the county centrally from east to west, has been repeatedly surveyed and described since the country came into the possession of the Americans, and has been the thoroughfare for travel from Santa Fé to Prescott during the past twenty years. Now the railroad itself is pushing through, and before the year expires, the engines and cars of the Atlantic and Pacific Railroad Company will enliven the wilderness with their busy presence and civilizing influences. The road enters the county from its junction with the Atchison, Topeka, and Santa Fé at Albuquerque, by the valley of the Rio Puerco, which it follows to its junction with the Colorado Chiquito at Holbrook; thence along the valley of the latter stream through the towns of St. Joseph, Sunset, and Brigham City, where it enters Yavapai. This is an agricultural and pastoral region of great worth and beauty, whose attractions have not been unobserved by the thrifty Mormons of Utah, by whom it is chiefly settled and occupied. The Mormons having the contract to construct the railroad through the county, have an additional incentive to settle along its route, and with their usual great industry, exceeding prosperity will be expected.

Officers.—Charles A. Franklin, Probate Judge; E. S. Stover, Sheriff; W. R. Rudd, District Attorney; Dionicio Baca, Treasurer; R. J. Bailey, Recorder; Antonio Gonzales, Luther Martin, and C. E. Cooley, Supervisors.

CACHISE COUNTY.

Organized in 1881. Bounded on the north by Graham, east by the Territory of New Mexico, south by the Mexican State of Sonora, and west by Pima. Area, 5,928 square miles. Assessed valuation of property in 1880, in that portion of Pima County now included in Cachise, was \$800,000, but in 1881 this had increased to \$2,500,000, or an increase of 300 per cent. County seat, Tombstone. Principal towns, Benson, Bisbee, Charleston, Contention City, Dos Cabezas, Galeyville, Hereford, and Willcox, and the military posts of Fort Bowie and Camp Huachuca. There are also numerous stations on the Southern Pacific Railroad, and many mining camps throughout the county, which will probably soon develop into busy towns and thriving marts of trade. The mining districts are Cachise, California, Chiricahua, Dos Cabezas, Gold Camp, Huachuca or Hartford, Swisshelm, Tombstone, Turquoise, and Warren. Resources: mineral, pastoral, and agricultural. The chief river is the San Pedro, rising on the borders of Sonora, and running northwesterly it enters Pinal County and empties into the Gila after a course of nearly 200 miles. The San Bernardino is a limpid stream, rising in the Chiricahua mountains in the south-east, and runs southerly into the State of Sonora.

L. BASHFORD & CO., PRESCOTT, A. T., Headquarters of Mining Men.

There are a number of small mountain streams, though seldom do they bear their waters to rivers that reach the sea, but are absorbed by the soil of the valleys. The mountain ranges are the Chiricahua in the east, Pedrogoza in the south-east, Mule Pass in the south, Huachuca in the south-west, Whetstone in the west, Galiuro in the north, and the Dragoon Mountains in the interior. San Pedro Valley follows the river of that name through the western portion of the county; the great Sulphur Spring Valley occupies a broad area between the Dragoon and Chiricahua mountains, and the San Simon Valley stretches across the north-east. Forests of pine and firs abound in the higher mountains, oak upon the lower hills, and mesquite and cottonwood in the lower valleys. Generally the soil is not adapted to agriculture, but there are quite extensive localities exceedingly favorable to cultivation. Almost everywhere the gramma and bunch-grass grow well, often luxuriantly, affording excellent grazing, but it is deficient in natural watering-places. Deer, antelope, wild turkeys, and other game peculiar to the Rocky Mountain region, are quite plentiful. The entire region having an elevation of two to six thousand feet above the sea, is insured a healthy climate, warm in summer, but generally of the most pleasant character imaginable. Great as is the county's capacity for the rearing of stock, its chief source of wealth is in the minerals which vein the hills and thread the valleys throughout its entire area. But few regions of the earth of equal extent have shown greater mineral wealth than is indicated by the present developments in this county. Gold, silver, copper, and lead appear in the greatest abundance. The Huachuca mountains are distinguished for their wealth in copper, lead, and silver. Tombstone has already produced its millions of dollars of silver, and farther to the north and east are placers and veins of gold. Civilization and enterprise have but recently entered this quarter of our Union, but the wealth that has been developed is a surprise to all, and a promise of a bright future. A thrifty, law-abiding, and intelligent people are filling the places recently held as the strongholds and hunting-grounds of the merciless Apache. Cities and villages are springing up, with their churches, schools, and newspapers; their courts, stores, and pleasant homes; their mail routes, telegraphs, and railroads; and the hum and stir and triumphs of busy industry are everywhere apparent. The Southern Pacific Railroad crosses the county from west to east, having a length of 100 miles within its limits, thus affording cheap and easy connection with all parts of the Union. In this county are the Dragoon Mountains, Apache Pass, Mule Pass, and other localities made famous by the bloody acts of the Apaches, who held them as strongholds, defying the encroachments of traveler, prospector, or settler, until within the last few years. One of the fiercest, ablest, and most relentless of these dread Indian marauders was the chief, Cachise—who, if not

immortalized by the tales of his savage career, will have his name perpetuated by a forgiving people adopting it as the name of their county.

Officers.—J. H. Lucas, Probate Judge; J. H. Behan, Sheriff; Lyttleton Price, District Attorney; John O. Dunbar, Treasurer; A. T. Jones, Recorder; M. E. Joyce, Joseph Tasker, and Joseph Dyer, Supervisors; R. J. Campbell, Clerk Board of Supervisors; Rodman M. Price, jr., Surveyor; H. M. Matthews, Coroner; George Pridham, Public Administrator; I. N. Mundell, Benson; J. F. Duncan, Bisbee; James C. Burnett and D. H. Holt, Charleston; E. A. Rigg, Contention; George Ellingwood, Galeyville; Charles Ackley, Hereford; A. O. Wallace, A. J. Felter, and Wells Spicer, Tombstone; A. F. Burke, Willcox—Justices of the Peace.

GILA COUNTY.

Organized in 1881. Bounded on the north by Yavapai and Apache, east by Apache and Graham, south by Graham and Pinal, and west by Pinal and Maricopa. Area, 2,980 square miles. County seat, Globe. Principal towns, McMillen, Nugget or Richmond, and Stanton or Wheatfield. Mining districts, El Capitan, Globe, McMillen, and Tonto Basin. Resources chiefly mineral, but good pasturage obtains; and where water is convenient, grazing becomes an important source of wealth. Along the small streams are many beautiful valleys, where a fertile soil, in conjunction with the most lovely climate that sun and air can make, invites the farmer to most prosperous and pleasant homes. The county takes its name from the river on its southern border. Salt River crosses the county from east to west, receiving numerous branches, of which the White Mountain River, Cibien Creek, Cañon Creek, Cherry Creek, Tonto Creek, on the north, and Pinal Creek on the south are the principal. The mountains are the Pinal and Mazatzal, bordering it on the west, Apache mountains in the center, and San Carlos in the east, with numerous peaks and buttes, making the surface very irregular. This is the smallest of Arizona counties; but, from present developments, appears to be a metalliferous nugget. The most prominent minerals are gold, silver, and copper; lead and coal are also found. The mines of Globe and McMillen have produced many tons of ore in which the native silver in threads and nuggets bore a large proportion. Gold in placers and veins is found in the Richmond Basin and other districts, where it is mined with success and with bright prospects for the future. Copper in ledges a hundred feet in width and veins of smaller size yielding forty to sixty per cent. of copper, constitute a resource that alone would give it celebrity and wealth as a mining county. Coal also is found near Globe, promising wealth to the miner and cheap fuel for the mills and for domestic purposes. Emphatically it is a mining county, which

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will proceed rapidly in its development as the people of the world learn its worth and lines of transportation render it accessible. From the Southern Pacific Railroad it is reached by wagon-road from Casa Grande via Florence and Riverside, crossing the Pinal range, and from Willcox via Sulphur Spring Valley, Fort Grant, and the valley of the San Carlos; also by saddle and pack-train via Pinal. With the completion of the Atlantic and Pacific Railroad a shorter and more feasible route will be opened to the county, as that road will approach within one hundred miles of its northern border, to which valleys extend offering easy communication. North of Salt River is the extensive Tonto Basin, a region once the favored home of that branch of the Apaches whose name it bears, and now regarded as of great value by its present occupants for its loveliness and wealth in soil, mines, and climate. Gold and copper are found in the hills throughout this region in such wealth of vein as to give assurance of a bright future. South of Salt River is the valley of Pinal Creek, which is highly extolled as most healthy and fertile, possessing the most delightful climate in the world, surrounded by scenery that charms the eye, and producing all the delicacies of a semi-tropical latitude. Of the Richmond Basin, a writer says: "It is situated fourteen miles north-east from Globe village, on a hollow plateau of the highest part of the Apache Mountains. The mountains immediately back, forming the eastern barrier, rise up boldly in alpine peaks hundreds of feet above the plateau and two thousand feet above the valley of Salt River. At the foot of the barrier in the basin are found the ore bodies, all near the surface, and in these have been located the Mack Morris, the Richmond, East Richmond, Silver Nugget, and others. Porphyry and syenite constitute the country rock. Salt River is a rapid and beautiful stream, affording abundant power for machinery. A railroad is proposed, connecting it with the mines of Globe and of Richmond Basin."

Officers.—G. A. Swasey, Probate Judge; W. W. Lowther, Sheriff; Oscar M. Brown, District Attorney; D. B. Lacey, Treasurer; P. B. Miller, Recorder; J. K. Smith, F. W. Westmeyer, and George Danforth, Supervisors; John J. Harlow, Clerk Board of Supervisors; A. G. Pendleton, Surveyor; C. A. Macdonell and E. J. Pring, Coroners; T. C. Stallo, Public Administrator; George A. Allen, Globe; J. Willett, Grapevine Springs; T. T. Overton, McMillen; C. Cline, Reno; C. Fraser, Richmond Basin; Reuben Wood, San Carlos; George B. Walker, Stanton—Justices of the Peace.

GRAHAM COUNTY.

Organized in 1881. Bounded north by Gila and Apache, east by the Territory of New Mexico, south by Cachise, and west by Pinal and Gila. Area, 6,474 square miles. County seat, Safford.

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

Principal towns, Clifton, Maxey, San Carlos, and Solomonville, and the military posts of Camp Thomas and Fort Grant. Mining districts are Clifton, De Frees, and the Deer Creek Coal mines, which extend into the San Carlos Indian Reservation. Resources: agricultural, pastoral, and mineral. The topographical features are mountain peaks, high and broad plateaus, and river valleys. The county embraces a tract about eighty miles square, with the Salt River on its northern border, and the Gila following a sinuous course from east to west, through the center, while the San Pedro forms its border for a short distance in the south-west. On the Gila is the great valley of Pueblo Viejo, containing some 70,000 acres of most excellent farming land. In the south-west is Grass Valley, a large area of fine grazing land, and in the north-east are the Gila and Prieto plateaus. Centrally, in the southern half of the county, is the lofty Graham Peak, from which conspicuous landmark the county takes its name. This peak was so named in honor of Captain Graham, of the U. S. Army, who commanded one of the companies of the "Army of the West," under General Kearny, which marched through this region *en route* to California in 1846. North of the Gila are the Sierra de la Petahaya and Gila ranges of mountains, and south are the Peloncillo, Pinalino, Santa Teresa, and Galiuro ranges. The San Francisco River, Eagle Creek, Gila Bonita, and San Carlos are the principal tributaries of the Gila. Near the San Francisco are the rich and extensive copper mines of Clifton district, and in the valley of the same stream are found gold placers of great extent and value. In the west is the San Carlos Indian Reservation, a large tract of valuable land containing veins of copper and coal of the finest quality. The geological formation comprises limestone, porphyry, syenite and granite. The surface of the county has a general elevation of from 3,000 to 5,000 feet above the sea, possessing a remarkably healthy and salubrious climate, which with its great resources of soil and mines, and its proximity to the great transcontinental railroad, assure it a prosperity second to none in Arizona.

Officers :—George Lake, Probate Judge; C. B. Rose, Sheriff; Neri Osburn, District Attorney; I. E. Solomon, Treasurer; W. F. Clarke, Recorder; Adolph Solomon, A. M. Franklin, and Jonathan Foster, Supervisors; George H. Stevens, Clerk Board Supervisors; James Haynes, Surveyor; E. D. Tuttle, Coroner; Thomas Neese, Public Administrator; E. Mann, Camp Thomas; S. W. Pomeroy, Clifton; E. D. Tuttle, Safford; D. W. Wickersham, Solomonville—Justices of the Peace.

MARICOPA COUNTY.

Organized in 1871. Bounded north by Yavapai, east by Gila, south by Pinal and Pima, and west by Yuma. Area, 9,200 square

miles. Population, 1880—5,689. County seat, Phoenix. Principal towns, Gila Bend, Mesaville, Seymour, Tempe, Vulture, and Wickenburg, and the military post, Fort McDowell. Mining Districts, Cave Creek, Magazine, Myers, Reno Mountains, Vulture, and Winifred. Resources, agricultural and mineral. The county receives its name from a tribe of Indians who dwell near its southern border. The chief streams are the Salt, the Gila, and Rio Verde Rivers, and Agua Fria and Hassayampa Creeks; the first enters the county from the east and flows southwesterly into the Gila. Along its borders and within reach of its waters, used in irrigating, is the richest agricultural region of Arizona. With its equable climate and fertile soil, it may well be regarded as a veritable paradise. The valley of Salt River, sixty miles in length by ten to thirty in breadth, spreading to the Gila in its lower part, contains evidences in ruins of villages and irrigating canals, of an ancient occupation by a numerous and thrifty agricultural people. As yet it is but sparsely settled, although there are several large and prosperous towns along its course. When developed to its full capacity by the reconstruction of its ancient canals, the valley of Salt River will support a population of many thousands.

Hon. P. Hamilton, Territorial Statistician, speaking of this valley, says:

"After a drive through its immense fields of golden grain, ripening in the early summer sun, one is impressed with the almost unlimited capabilities of this valley, which has been well named the 'Garden of the Territory.' No one who has not visited the Salt River country can have any conception of the area of land which has been reclaimed from the desert, brought under a high state of cultivation, and made fruitful and highly productive. For nearly thirty miles up and down the course of the river there is almost one continuous line of fine farms, bearing bountiful crops. A ride through this grand grain field is a sight the like of which is found nowhere else in the Territory. Wheat and barley are the principal crops, but immense stretches of alfalfa, beautiful with its bluish purple blossoms, and waving gently in the summer breeze, like an emerald lake, greet the eye in every direction. Comfortable farm-houses, embowered in groves of cottonwood and poplar, and acequias, lined with shade trees, most admirably diversify the landscape; while the rugged mountains, their outlines softened in a purple haze, complete the picture of this Arizona Arcadia, whose semi-tropical loveliness is the glory of our Territory.

"It is estimated that there are over 15,000 acres of land under cultivation in the valley at the present time, more than half of which is in wheat. The average yield is about fifteen hundred pounds to the acre. The wheat crop for the present year presents a splendid appearance, and will compare with that of any section of the Pacific Coast. The barley crop is now being harvested, and as I passed through the valley large numbers of farm

hands, with threshers and headers, were scattered in every direction, gathering the ripened grain. Modern ideas and modern appliances have deprived the harvest-field of much of its poetical surroundings. The sickle and scythe have given place to the header and its labor-saving appurtenances. The farmers of Salt River, many of whom plant one thousand acres of grain, use the latest and most perfect agricultural machinery, and the work of gathering the crop is done cheaply and expeditiously. Leading farmers have informed your correspondent that they can raise grain in this valley as cheaply as in California.

"About eighteen miles up the river from Phoenix a Mormon colony have established themselves. Their settlement has been made on a dry, barren mesa, elevated about forty feet above the level of the surrounding valley. Sage, gravel, and greasewood were the natural productions of this uninviting spot before these people settled there. By bringing water from a ditch high up the river they have literally made this desert to blossom as the rose, and are fast building up a prosperous community. Houses have been built, trees have been planted, gardens laid out, and this forbidding and sun-scorched plateau made to yield fine crops of grain and vegetables. Several vineyards have been planted, many of which are already in full bearing. It is generally conceded that the soil of the Mormon settlement is the best adapted of any in the valley to the raising of the grape. The farms in the Mormon colony are small, averaging from ten to forty acres. They are being carefully cultivated, and the 'mesa' settlement promises in a few years to be one of the most beautiful and productive spots in the Valley of the Salinas. Much attention has been paid to fruit culture during the last few years. Grapes, apricots, peaches, figs, strawberries, and many other varieties of fruit, do well here. Old settlers become enthusiastic in describing the glorious appearance of the orchards and vineyards in the early fall, when the luscious grapes hang in profusion in the vineyard and garden, looking tempting enough to induce old Bacchus to take up his abode here in the Valley of the Salt, where the peaches and plums and apples are as plentiful and as beautiful as the golden fruits that hung in the garden of Hesperides. For melons this place is already famous; no such juicy and magnificent specimens being grown on the Coast; and for pumpkins I will say nothing, for this valley has long borne the palm for its production of this palatable edible. Some farmers are turning their attention to wine making, and your correspondent can say from experience with a sample three years old, that it will compare favorably with the best California."

Away from the streams the country presents a forbidding aspect; being generally dry and barren, with the ever present cactus as the sharpest feature of the landscape. The valley of the Gila, west of Salt River, is narrow and sandy, with but small

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

areas of arable land. Wherever cultivation is practicable, every plant of a semi-tropical clime can be produced in great abundance and perfection. While agriculture has been the main resource, mines of great value have been discovered in various sections. The Vulture mine in the northwest has produced a large amount of gold, and the region about Wickenburg and the Hassayampa has become noted for its placers and ore-bearing veins of the same precious metal. In the northeast are the Verde Mountains, where several mining districts have been organized, and veins of gold, silver, copper, and lead-bearing ores have been found, some of which are of great size and of undoubted richness. The western portion of the county presents an exceedingly barren and forbidding appearance; but until it is proven void of valuable mines it cannot be condemned, as often have the rugged sun-burned rocks of Arizona been found to be only the rough casket of the richest treasure. How vividly is this proven by the developments in the Sierra de la Esperanza, in the extreme south-western part of the county. In this bleak and desolate region, where it appears nature has defied the approach of man by erecting barriers of desert, thorns, rocks, drouth, and heat, Myers district is formed, and great bonanzas of gold and silver ore exposed. Here are the "Gunsight," "Silver Girt," and other mines of high repute. This district is about 40 miles south of the Southern Pacific Railroad, and is reached via Gila Bend. The residents of the fertile valley of Salt River have boasted of their county as pre-eminently agricultural in its resources, regarding the barren hills and rugged peaks with disdain; but the great wealth of mines in such localities, as proven by the Vulture in the north-west, and the mines of Myers district in the south-west, may yet give the latter industry the precedence.

Officers.—Thomas G. Greenhaw, Probate Judge; L. H. Orme, Sheriff; A. D. Lemon, District Attorney; John George, Treasurer; R. F. Kirkland, Recorder; J. L. Gregg, Michael Wormser, and C. T. Hayden, Supervisors; Frank Cox, Clerk Board of Supervisors; Joseph D. Reed, Coroner and Public Administrator; F. M. Pomeroy, Mesa City; G. H. Rothrock, M. M. Jackson, and James Richards, Phoenix; J. A. Barstow, Tempe; J. H. Gifford, Vulture—Justices of the Peace.

MOHAVE COUNTY.

Organized in 1864. Bounded north by the State of Nevada and Territory of Utah, east by Yavapai, south by Yuma, and west by the States of California and Nevada. Area, 10,720 square miles. Population, by the census of 1880—1,190. County Seat, Mineral Park. Principal towns, Aubrey, Cerbat, Fort Mohave, or Mohave City, Hardyville, and Signal. Mining Districts, Aubrey, Cedar Valley, Greenwood, Hope, Hualapai, Maynard,

Owens, and San Francisco. This county has for its western border the Colorado River, which separates it from Nevada and California, and forming an artery of commerce, it being navigable for light-draft steamers, which ply on it in connection with the Southern Pacific Railroad at Yuma, and with ocean vessels at its entrance into the Gulf of California. This great river, in the wildness and grandeur of its scenery, is without a parallel on the continent. Formed by the junction of the Green and the Grand, and many other streams flowing from the Rocky Mountains, in distant Idaho, and the unexplored parks and peaks of Colorado, it has cut itself a channel a mile or more in depth, through the Territories of Utah and Arizona. One of those tremendous chasms is where the river crosses the County of Mohave, called The Grand Cañon, and another is The Black Cañon, where it separates Arizona from Nevada. After leaving these cañons, it enters the great desert region of the west, the barren, rocky, sunburned mountains holding it in a close embrace for hundreds of miles in its course, occasionally relieved by small valleys, made fruitful by its annual overflow. But these rugged rocks are not as valueless as they appear to the passing traveler. Mines of gold, silver, copper, and lead are found in their depths, some of which have been worked with success, and under more favorable auspices, will undoubtedly become sources of great wealth. Near the Colorado, intense heat prevails in summer; but the country rises rapidly to the east, where a milder climate is found, with grass-covered valleys and hills clothed with forests. The Black, Cerbat, Music, Hualapai, Peacock, and Cottonwood mountains, are the principal ranges, with hills and valleys between. Across the southern part runs the thirty-fifth parallel, and the route of the Atlantic and Pacific Railroad, which has already entered the eastern border of Arizona, and is expected soon to be completed, and aid in the development of the mineral resources of Mohave.

Officers :—Charles Atchison, Probate Judge; John C. Potts, Sheriff; J. W. Stephenson, District Attorney; W. A. Langley, Treasurer; John K. Mackenzie, Recorder; L. C. Welbourn, William H. Hardy, and W. F. Grounds, Supervisors; H. Bucksbaum, Clerk Board of Supervisors; James J. Hyde, Public Administrator; James J. Hyde, Mineral Park; Samuel O. Prince, Sandy—Justices of the Peace.

PIMA COUNTY.

Organized in 1864. Bounded north by Maricopa and Pinal, east by Cachise, south and south-west by the Mexican State of Sonora, and west by Yuma. Area, 10,179 square miles. Population, census of 1880—17,007, which included what is now called Cachise County, and a portion of Graham County. County seat,

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Tucson. Principal towns: Arivaca, Calabasas, Greaterville, Harshaw, La Noria, or Lutrell, Oro Blanco, Pajarito, Pantano, Pelton, Tubac, Washington Camp, the military post Fort Lowell, and the Papago Indian village and church of San Xavier. Mining Districts: Arivaca, Aztec, Bloodsucker, Empire, Gold Mountain, or Horse Shoe Basin, Helvetia, or Santa Rita Placers, Old Hat, Oro Blanco, Pajarito, Palmetto, Patagonia, (including Harshaw and Washington Camp) Pima, Silver Bell, and Tyndall. The county comprises a broad belt of the southern portion of the Territory, 175 miles from east to west, and eighty miles from north to south, extending from the grassy and pleasant region of the east to the hot and barren mesas of the west. The Santa Cruz River flows from south to north, through the eastern portion of the county, sinking into the earth on the northern border. The valley of this stream contains much arable land, and where irrigation is practicable, fine crops are grown. The bordering hills and plains are covered with gramma grass, a beautiful and nutritious plant, rendering the region most favorable for the raising of cattle. This splendid grazing region embraces the eastern portion of the county and a large area of the southern border west of the Santa Cruz, and much other might in all probability be made available for grazing purposes and tillage, by a system of artesian wells. In their present state of nature, the plains and mountains are scorched, desolate and barren, relieved by the fierce and bristling cactus; which sometimes rise in great columns thirty to fifty feet in height—a single trunk, lonely and singular, like some forgotten monumental pillar or neglected ruin: at other times, sprawl in irregular brambles, as if to guard the place, saying plainly: "Touch not at your peril!" an admonition to the traveler never necessary to be repeated. The cactus—several varieties—hateful as they are, bear a delicious fruit, which constitutes an important part of the comestibles of the wild Indians of Arizona. Where such plants grow unaided, it appears that more valuable things could be made to grow with the aid of artesian water, skillful cultivation, and the proper selection of plants. Mining is, and probably will continue to be, the great interest. Every mountain range, hill, and isolated peak appears to be veined with metal-bearing ore. Gold, silver, copper, and lead are the principal metals found, and these appear in remarkable abundance. The region was occupied by the Spaniards in their earliest settlement of Mexico, and mines were worked centuries ago, as is proven by the growth of trees over abandoned shafts and other mining works. But here the Indians were more warlike than those of other parts of Mexico, and succeeded in limiting the area of civilizing advancements; until of recent date it has fallen into the hands of a more energetic people, who now, aided by the most improved methods of intercommunication, have invaded the country, successfully occupied it, reduced its savage inhabitants to

E. IRVINE & CO., Phoenix, A. T., AGRICULTURAL IMPLEMENTS.

subjection, eliminated its dread *jornadas del muerto*, and will proceed to develop its resources and enjoy its wealth. This portion of Arizona, including all that south of the Gila River, was acquired by the United States in 1854 by purchase from Mexico, and known as the Gadsden Purchase, the sum of \$10,000,000 being paid; the professed object being the possession of a feasible route for a transcontinental railroad, all northern routes being declared impracticable. The war of the rebellion changed many plans, but at last the Southern Railroad is completed, and Pima County is in easy communication with the rest of the world. The principal mountains are the Patagonia, Huachuca, Mustang, Sierra Colorado and Santa Catarina, along the eastern border; the Santa Rita, a short range, running north and south, east of the Santa Cruz River. West are numerous low ranges of hills and a few isolated peaks, the more prominent being the Sierra Atascoso, Sierra Tucson, Sierra Verde, Baboquivari Peak, Cabibi Mountains, Quigotoa, Sierra de la Naril, and Sierra del Ojo. In the far west is the Ajo copper mine, and gold and silver are found in the same region. In most of the mining districts the precious metals are accompanied by lead and copper, and the ores are reduced by smelting. Fortunately, in many localities there is an abundance of fuel, the forest growth being mesquite, cottonwood, ash, oak, pine, and fir, the first a tree of the valleys and plains, the others upon the hills and in the mountain cañons. The valley of the Santa Cruz has long been a thoroughfare of travel and trade with Mexico, adding the resource of commerce to those of mining and agriculture enjoyed by Pima.

Officers :—John S. Wood, Probate Judge; R. H. Paul, Sheriff; Hugh F. Farley, District Attorney; R. N. Leatherwood, Treasurer; Charles R. Drake, Recorder; William C. Davis, B. M. Jacobs, Michael Fagan, Supervisors; E. W. Risley, Clerk Board of Supervisors; L. D. Chillson, Surveyor; W. B. Horton, Public Administrator; Volney E. Rollins, Arivaca; P. J. Coyne, Greaterville; Trevor Lloyd, and J. W. Fuqua, Harshaw; R. S. Barclay, Luttrell; Arthur Thatcher, Oro Blanco; T. Lillie Mercer, Tubac; C. H. Meyers, Joseph Neugass, and W. J. Osborn, Tucson; A. J. Davidson, Tullyville; R. Harrison, Washington Camp—Justices of the Peace.

PINAL COUNTY.

Organized in 1871. Bounded north by Maricopa and Gila, east by Gila and Graham, south by Pima, and west by Maricopa. Area, 5,700 square miles. Population, 1880—3,044. County seat, Florence. Principal towns: Casa Grande, Maricopa, Pinal, and Silver King. Mining districts: Casa Grande, Mineral Creek, Mineral Hill, Pioneer, Randolph, Saddle Mountain, and Summit. Resources: agricultural and mineral. The principal streams are the

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Gila and San Pedro Rivers, and Mineral and Queen Creeks. Mountains: the Santa Catarina Range, in the south-east, and the Tortilla and Tortillito Mountains, south of the Gila; and the Pinal and Superstition Mountains north of the river. The San Pedro Valley forms an important farming section in the eastern part of the county; and the valley of the Gila west of the junction of the San Pedro contains a narrow strip of fine arable land, but the greater surface of the county is of high and dry plains or mountain ridges. The elevation of the land at the mouth of the San Pedro is 2,115 feet above the sea, and at the Pima Reservation in the western part 1,308 feet, showing a fall in the Gila of 800 feet in about 100 miles of the river's course. From this point to its mouth, a distance by the river of 200 miles, the fall is 1054 feet. This rapid fall affords opportunity for turning the stream from its channel for the purpose of irrigating the land or propelling machinery. The Gila, from its position and the character of the country through which it flows, is, though not large in volume of water; the most important in Arizona; and as it emerges from the cañons of the eastern part of Pinal, becomes available for agricultural and mechanical purposes. By an enlightened and comprehensive system of engineering it can be made to redeem a vast amount of desert, besides rendering its falling power in aid of the miner and the manufacturer. With such a system Pinal may be said to embrace the finest portion of the valley of the Gila. The elevation is such as to render the summer heats more tolerable than near the Colorado, while exempt from the winter frosts of the higher valleys in the east. Where irrigated, all the products belonging to a semi-tropical clime can be grown, and oranges, cotton, and sugar-cane have been successfully cultivated. In the western part, bordering both sides of the river, is the Pima Reservation, containing 4,500 Indians of the Pima tribe, and 500 of the Maricopa. These are a peaceable and industrious people, living very rudely, but pleasantly, and cultivating a large area of their reservation. These Indians, though devoted to agriculture rather than to war and the chase, have stood as a barrier between the hostile Apaches and the white settler, protecting the traveler and furnishing supplies to the soldiers. North of their reservation extends the open valley to Salt River, in which are the ruins of La Tempe; and south are the ruins of Casa Grande, which indicate a once-numerous people and a system of irrigation that should incite to emulation the more pretentious skill and civilization of the present day. For the white element of the county, mining constitutes the great attraction. Gold, silver, and copper are the minerals most sought, but lead and salt are also found, and the existence of cement in the ruins of Casa Grande indicate that, that valuable mineral may be added to the others if an intelligent search be made for it. Foremost among the mining districts is the Pioneer, where is located the noted Silver King Mine, the

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details of which are given elsewhere in this volume; and also the Gem, Last Chance, Surpriser, Pike, Emma, Copper Top, and many others rich in gold, silver, copper, and lead. In the Pinal and Superstition ranges of mountains, and also south of the Gila, the workings of ancient miners have been discovered. Hundreds of these old mines are said to exist, but it is not probable that very extensive or skillful mining was ever maintained in this country. A prospector says he has seen sahuaros (*cactus gigantea*) two feet in diameter and sixty feet in height, growing over the workings of these ancient mines. The mining regions are considerably elevated above the valley of the Gila, in a climate of greater difference of temperature, being warm in summer and receiving slight falls of snow in winter. Everywhere it is healthy, and the comforts and refinements of high civilization are enjoyed. The great transcontinental railroad of the 32nd parallel crosses the county, and is connected by excellent wagon-roads with every section. The county derives its name from the Pinal range of mountains, which form its eastern border—these deriving their name from a branch of the Apache tribe of Indians.

Officers.—George L. Wratten, Probate Judge; J. P. Gabriel, Sheriff; H. B. Summers, District Attorney; Peter R. Brady, Treasurer; John J. Devine, Recorder; Patrick Holland, John T. Bartleson, and G. F. Cook, Supervisors; J. D. Walker, Clerk Board of Supervisors; Henry Schoshusen, Public Administrator; J. Miller, Florence; W. H. Benson, Pinal—Justices of the Peace.

YAVAPAI COUNTY.

Organized in 1864. Bounded north by the Territory of Utah, east by Apache, south by Gila and Maricopa, and west by Yuma and Mohave. Area, 30,700 square miles. Population, 1880—5,013. County seat and capital of Arizona, Prescott. Principal towns: Alexandra, Bradshaw, Camp Verde P. O., or Fort Verde military post, Gillette, Tip Top, and Whipple Barracks, the headquarters of the Military Department of Arizona. Mining districts: Agua Fria, Big Bug, Black Cañon, Black Hills, Black Rock, Cataract, Cherry Creek, Copper Basin, Hassayampa, Humbug, Martinez, Peck, Pine Grove, Silver Mountain, Tiger or Bradshaw, Tonto, Turkey Creek, Walker, Walnut Grove, and Weaver. The principal mountains are the Jerked Beef and Pinnacle peaks in the south-east, the Mogollon in the east, the Buckskin Mountains in the north, the Juniper and Mt. Hope ranges in the west, the Bradshaw, Verde, and Mazatzal ranges in the south, and the Black Hills, San Francisco, and other mountains and buttes in the interior. The rivers are the Great Colorado, entering at the north and with a long sweep southerly, turning north-westerly and westerly, flowing into Mohave; the Colorado Chiquito, or Little Colorado, having its sources in New Mexico,

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flowing northwesterly across Apache, joining the great river at its southern bend. Cataract Creek rises in the center of the county and flows north into the Colorado. The Santa Maria and other small streams in the west, join Bill Williams Fork; and in the south are the Hassayampa, Agua Fria, Verde, Tonto, and their branches. The county comprises a vast area, sufficient to form a State larger than many of the older States of the Union. The surface is irregular and unique, with resources undeveloped, and known but to a limited extent. They are mineral, agricultural, and pastoral. The north is a high, and generally barren plateau of basaltic rock, through which the Colorado flows in a cañon, the most remarkable in the world, being often near a mile in depth, with perpendicular walls, shutting out the light of day from the river's surface. South of this are the many mining districts, fertile and grassy valleys, and forest-covered mountains. The entire country is at an elevation of several thousand feet above the sea, and subject to snow in winter, though not to excess, the general climate being mild and healthy. Game, such as deer, antelope, bear, and wild turkeys abound. Placer mines of great value were discovered and worked as early as 1862, and soon thereafter veins of gold, silver, copper, and lead-bearing ores were found, which have been mined with great success. For a number of years this was the principal mining county of Arizona, but the opening of new mines near the Southern Pacific Railroad, has drawn the attention of capital and enterprise in that direction, leaving Yavapai in the background. The difficulty of access has greatly retarded development, but this will soon be remedied by the construction of the Atlantic and Pacific Railroad, which will probably cross the county before the expiration of 1882. In the meantime a route for a railway from Prescott via Phoenix to the Southern Pacific at Maricopa has been surveyed, and work on it will probably soon commence. The Prescott and Thirty-Fifth Parallel Railroad Co. have also filed articles of incorporation, and contemplate soon to commence the construction of a road from Prescott, to connect with the Atlantic and Pacific. With these improved lines of travel, the salubrious climate, grand scenery, and illimitable resources of mine, forest, and farm, will attract a thrifty population to Yavapai.

Officers:—A. O. Noyes, Probate Judge; Joseph R. Walker, Sheriff; Joseph P. Hargrave, District Attorney; E. J. Cook, Treasurer; William Wilkerson, Recorder; J. N. Rodenburg, W. A. Cline, and J. M. Myers, Supervisors; D. F. Mitchell, Clerk Board of Supervisors; Thomas W. Simmons, Public Administrator; John Mans, Agua Fria; John Anderson, Alexandra; John Stemmer, Ash Creek; S. E. Miner, Big Bug; George C. Waddell, Bradshaw; George W. Hull, Central Verde; Richard De Kuhn, Cherry Creek; S. C. Rees, Chino Valley; W. H. Smith, Crook Cañon; J. Trotter, Gillette; William Burch, Green Valley; D.

Monroe, Lower Agua Fria; Frank E. Jordan, and Murray McInernay, Lower Verde; C. Y. Shelton, Lynx Creek; P. Wilder, Mount Hope; Andrew Jackson, Oak Creek; J. H. Pierson, Peoples Valley; John Hicks, Pine Creek; Paul M. Fisher, Henry W. Fleury, and J. L. Hall, Prescott; J. Douglass, Snyder's Holes; H. Anderson, and A. J. McPhee, Tip Top; W. W. Nichols, Upper Verde; W. H. Williscraft, Walnut Creek; George Jackson, Walnut Grove; C. P. Stanton, Weaver; H. M. Clack and E. R. Nichols, Williamsons Valley—Justices of the Peace.

YUMA COUNTY.

Organized in 1864. Bounded north by Mohave, east by Yavapai, Maricopa, and Pima, south by the Mexican State of Sonora, and west by the Mexican Territory of Lower California, and California, from which it is separated by the Colorado River. Area, 8,360 square miles. Population, census of 1880—3,215. County seat, Yuma. Principal towns: Castle Dome Landing, Ehrenberg, Norton's Landing, Parker, (the name of the post-office on the Colorado Indian Reservation) Silent P. O., or Pacific City. Mining districts: Bill Williams Fork, Castle Dome, Eureka, Harecuar, La Paz, Plomosa, Silver, and Weaver. Resources: commercial, mineral, and limited agricultural. Commencing these sketches of the counties of Arizona with Apache, far in the north-east among the high mountains and plateaus of the Sierra Madre, the backbone of the continent, where the lofty pines and the winter snows tell of the northern temperate zone and its products, we close with the extreme south-west, near the level of the sea, where a burning sun heats with a torrid fierceness the dessicated mesas and the rugged rocks, and the thorny shrubs of the southern desert give the character to the vegetation. Nowhere in the United States does nature wear a more repulsive and desolate aspect than in the region bordering the Colorado. Here is the great American desert in all its terrible grandeur. From fifty to one hundred miles on either side of the river stretch sandy plains or barren ridges of rugged rocks, with but an occasional oasis of fertile soil. The Colorado, flowing along the western border of the county 180 miles, is one of the great rivers of the continent, and of the least value. Having a course of nearly 2,000 miles through yawning chasms in its upper course, and over a changing, sandy bed in the desert region of the south, it is of but slight avail for the purposes of commerce, of manufacture, or for irrigation. Light-draft steamers with some difficulty ascend it 500 miles from its mouth, and carry on a limited trade. In the northern part of the county the valley widens sufficiently to create a few thousand acres of arable land, which has been reserved for the Mohave Indians, and is irrigated by water from the river. North and south of the junction of the Gila opens another valley, which, when irri-

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gated, is extremely productive. The Gila crosses the county in its southern part, and in its valley is a narrow strip of fertile soil. Bordering the county on the north is Bill Williams Fork, sometimes a torrent swelling the great river with its flood, but generally sinking in the sand before reaching its mouth. Along it is no valley of importance in an agricultural estimation. There are no other permanent streams, but there are numerous channels, or "washes," where torrents from sudden storms, or "cloud-bursts," to which the region is subject during the summer months, rush down with destructive energy to the river. Deficient as is Yuma in agricultural resources, the mineral resource is grand and inexhaustible. Rising from the river to its eastern border is a succession of mountain ranges and table-lands, containing gold, silver, copper, and lead, in great veins and placers. These ranges are the Castle Dome, Plomosa or Lead Mountain, Eagle Tail, Granite, and Harcuvar north of the Gila, and the Gila, Sierra de la Cabeza Prieto, and Mohawk ranges south of that river. The argentiferous galena and carbonate ores of the Castle Dome mountains have obtained a wide celebrity, the veins being gigantic in size and remarkable for the abundance and richness of the ore. In several localities, notably near Ehrenberg, in the north-western portion of the county, and south of the Gila, placers of gold have been found and mined with success. Adopting a system of "dry washing" by machinery, as recently put in practice, these placers will probably become sources of wealth. In the districts of La Paz and Bill Williams Fork are many copper-bearing lodes which have yielded large quantities of that metal, and promise a fine field for future enterprise. The Yuma, Cocopah, and Mohave Indians are in quite large numbers in the county. These were once hostile; but by the force of arms and the sensual attractions of civilization, have become subservient to the superior race. Physically they are fine specimens of the race, but void of noble or moral qualities, and are rapidly passing away. The county is now made accessible by the construction of the Southern Pacific Railroad, and the development of its great mineral resources in the near future is assured.

Officers.—Isaac Levy, Probate Judge; Andrew Tyner, Sheriff; H. N. Alexander, District Attorney; George Martin, Treasurer; Samuel Purdy, jr., Recorder; Leopold Furrer, George M. Thurlow, and C. H. Brindley, Supervisors; George M. Knight, Clerk Board of Supervisors; Walter Millar, Surveyor; J. H. Taggart, Coroner; Henry R. Mallory, Ehrenberg; A. D. Crawford, Sileri; C. H. Brindley and W. H. Tonge, Yuma—Justices of the Peace.

E. IRVINE & CO., Phoenix, A. T., HARDWARE & TINWARE.

INDIAN RESERVATIONS.

COLORADO RIVER.

This reservation was established by act of Congress, approved March 3rd, 1865, and was then occupied by only 840 Indians, belonging to the Mohave, Cocopah, Hualapai, and Yuma tribes, and the Chim-e-hue-vis band of Pah-Utes.

The Reservation proper embraces about 75,000 acres of land, lying on either side of the Colorado River, beginning at a point opposite the old town of La Paz, and extending northward a distance of 75 miles. The soil is alluvial, and very rich, but for want of irrigating facilities, is measurably non-productive.

Since the establishment of the Reserve all the Indians abandoned it voluntarily, except the Mohave tribe, whose numbers seem to have been augmented either by natural increase or other causes; for, notwithstanding the withdrawal of other tribes, subsequent annual reports of superintendents and Indian agents show the population of the Mohaves to have been in excess of the number given as having been occupants of the land on which the Reserve was established. On the 15th day of May, 1880, by order of the Hon. Secretary of the Interior, the Chim-e-hue-vis band of the Pah-Utes, numbering 210, was again placed on the Reservation, where they now reside. The following statistics are taken from a report made by an enumerator appointed to make an enumeration of these Indians for the general census of 1880:

Mohave Tribe.—Males over 20 years of age, 252; females over 20 years of age, 239; males from 15 to 20 years of age, 48; females from 15 to 20 years of age, 44; males from 5 to 15 years of age, 71; females from 5 to 15 years of age, 58; males under 5 years of age, 38; females under 5 years of age, 41. Total 791.

Chim-e-hue-vis.—Males over 20 years of age, 71; females over 20 years of age, 65; males from 5 to 20 years of age, 25; females from 5 to 20 years of age, 23; males under 5 years of age, 12; females under 5 years of age, 14—total, 210. Whole number of Indians on the Reservation, 1,001.

Jonathan Biggs, Indian Agent; J. F. Woods, Agency Clerk and Postmaster; Charles Biggs, farmer; Charles Thon, blacksmith; B. F. Snyder, carpenter; Libbie M. Thresher, teacher; Loretta Lang, matron.

NAVAJO.

This reservation is located partly in the north-eastern portion of Apache County, and partly in New Mexico, embracing an area of about 5,000 square miles. The Navajoes reside principally in the southern portion of the reservation, which is about the only

part that can be used for agricultural purposes. The general surface is high table-lands, exceedingly broken up into ridges and small mesas by numerous rugged and deep cañons, which carry running streams during the rains, but dry up entirely in the hot summer weather, affording only small pools and springs at long distances apart. The Navajoes are said to be a branch of the Apache tribe, although differing from them so materially in their industrial tendencies, being agricultural and pastoral in their habits. They raise a considerable quantity of corn, melons, pumpkins, and some good peaches. Their principal occupation is, however, stock-raising. In this they do not confine themselves to the boundaries of their reservation, but when feed is scarce on their lands they drive their herds southward as far as the White Mountains, in the higher valleys of which they find an inexhaustible supply of grass. Besides horses, mules, and cattle, they have some 500,000 sheep. They sell some wool, and manufacture excellent blankets. The number on the reservation is estimated at about 12,000.

PAPAGO.

This reservation is situated a few miles south of Tucson, in the Santa Cruz Valley, covering about 70,000 acres, a portion of which is tillable land. The Papagoes have always been known as village Indians, and are of the same tribe as the Pimas. The Spanish found them occupying the country called Papaguera, from whence they moved to their present location. They are peaceful in character, although sufficiently brave and able to protect themselves from the attacks of the Apaches, while the Mexican population around them was exterminated. They readily accepted the friendship of the early Jesuit missionaries, becoming converts to Catholicism, in which church they still remain. The old mines were principally worked through their agency. When first discovered by the Spanish three centuries ago, they lived as now, in villages, cultivated the soil, raised cotton, and wove both cotton and woolen fabrics. About the only change apparent in them is, that they have cut their hair, and adopted the Mexican dress. They have suffered less from bad habits, which are the general result of contact between the Indian and the civilized white man, than any other tribe in the Territory. Their number is estimated at 6,000. They own large herds of horses, mules, cattle, and sheep, and raise wheat, barley, sorghum, melons, pumpkins, and beans. On this reservation is the famous old church of San Xavier del Bac, which is religiously guarded and taken care of by the Papagoes.

PIMA AND MARICOPA.

This reservation borders on the Gila River, extending from about 17 miles below Florence to the mouth of the Salt River.

The Indians number about 5,000, including 4,500 Pimas and 500 Maricopas. Farming is carried on by them quite extensively so far as their mode of culture is concerned, they using the primitive wooden plow for the turning of the soil, and the two rocks for their milling and grinding. Water for irrigating purposes is brought in ditches from the Gila, and large crops, principally wheat, raised, the most of which is sold to traders in the vicinity. They also raise corn, barley, sorghum, melons, and vegetables of different kinds. Everything about the agency is conducted with strict conformity to law and order—police appointed from the Pimas preserving order. Punishment is inflicted on evil-doers by a sentence of hard labor with ball and chain attached. The dwellings resemble very much the pictures of the huts in the cold polar regions. They are low oval structures, covered with mud, with an opening at the bottom sufficiently large for a person to crawl in. These Indians have always been at peace with the whites, and the early settlers in Salt River Valley often received from them assistance in defending themselves from the attacks of the ruthless Apaches. Schools have been established for the education of the young, and religious instruction is also given by clergymen belonging to the Presbyterian Church. Mr. R. G. Wheeler is U. S. Indian Agent in charge, and Mr. E. B. Townsend is Special Agent.

SAN CARLOS.

This reservation lies principally in Graham and Gila Counties, including within its limits an area of over 4,000 square miles. On account of recent discoveries of coal in the southern portion of the reservation, a change of its boundaries has been recommended so as to exclude the coal lands and include lands on the north in compensation. It is also recommended to mark the boundary by posts at short distances apart, so that it may be perfectly distinct, and that there may exist no excuse for trespassing on the lands set apart for the Indians. There are about 5,000 Indians on the reservation, including the following tribes, all of whom are regarded as Apaches, distinguished by the terms Yuma, Mohave, Tonto, Warm Springs, San Carlos, and a few others. Several of these tribes in past days have been hostile to each other, but at present their relations are peaceable.

These are the remains of some of the most crafty, savage, and powerful tribes in Arizona. It is but a few years since they held almost undisputed sway south of the Gila, and had ravaged most of the towns in northern Sonora. Their bloody trails ran in every direction, and hardly a grazing rancho was left in northern Mexico. No doubt the difficulty which the Mexicans found in defending themselves against their attacks was the principal reason for consenting to the Gadsden Purchase.

At last, however, after years of bloodshed, these savages have

been subjugated and placed on this reservation, where they are quietly living, subjected to certain restrictions, and protected and supported by the Government. They are at present very peaceably disposed, and many of the chiefs and prominent men manifest a strong desire to profit by the civilizing influences that are placed within their reach, and express a wish to have the Government parcel off the land and give them a title to it. The number of farmers among them is increasing in proportion to the number of acres of land that are being irrigated, the area cultivated this year being greatly in excess of last year. A school has been established for the instruction of the young Indians, many of whom take a lively interest in school matters, and are advancing in a satisfactory manner. In addition to other supplies there is distributed among them, annually, 3,500,000 pounds of beef, 1,000,000 pounds of flour, 80,000 pounds of sugar, and 5,000 pounds of tobacco. Col. J. C. Tiffany is the U. S. Indian Agent in charge of the reservation.

ANCIENT RUINS.

The triangular piece of territory lying between Salt River and Gila River, from their junction eastward to the Superstition Mountains, may be called historic ground, as the extensive plain which it embraces shows at every step some ruins of ancient habitation. These consist of broken pottery, which is found in great quantities; and mounds of earth, which on being opened disclose the foundation walls of old buildings, and irrigating canals which have supplied the land with water for cultivation of the soil. The main canals were from twenty to thirty feet in width, and often many miles in length, and cut to a true grade, which indicates considerable engineering skill. Some of these canals are now used for roads, and others have been opened again for irrigating purposes. No one can pass over this section without being convinced that it was some time—in a period long passed—thickly inhabited by an agricultural people. These ruins are also found on the south side of the Gila, and west of the Salt River for many miles. One of the best-preserved and most accessible of these ruins is Casa Grande, about three miles south of the Gila, and about fourteen miles from Casa Grande station, on the road to Florence. A well-known correspondent thus describes them:

“Before reaching the ruins we drove over acres of pottery, and what seemed to us to be pieces of mechanical and culinary implements; and many a mile was made through old aqueducts and canals, so deep and wide as to excite our surprise from the amount

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

of labor required for their excavation. Arriving at the ruins we at once went up and into the Casa Grande. This ruin is on the most elevated portion of a vast plain covered with mesquite and artemisia. Portions of the walls are still standing, some of them reaching an altitude of forty or fifty feet; but the outer ones are getting jagged and disjointed, and are giving way to the elements, while some of the inner walls are in a state of good preservation. The outer walls are, or were, about five feet six inches thick, and the inner ones about four feet. The composition is a sort of concrete made from the native soil, with a mixture of some kind of natural or manufactured cement. The ruin measures fifty feet north and south, by forty east and west, and must have been at one time from sixty to eighty feet in height. There were a good many apartments on each floor between the outer and the inner walls, with an interior apartment four or five stories in height. There were many other buildings, all of which have crumbled into ruins. There were also, evidently, several large watch-towers. This was all inclosed by a wall four hundred and fifty feet in length from north to south, by two hundred and twenty-five feet in width from east to west, and probably ten or twelve feet in height. The main canal must have been eighteen or twenty miles in length; and to-day, along its banks, for six or seven miles, may be seen pieces of plate, pottery, and other articles of earthenware. I have no doubt but what a large city once occupied this plain, containing thousands of inhabitants, all acting under one government. There are also other smaller ruins in this neighborhood, one of which is only a half-mile from White's old station. There are also ruins of more extensive casas and inclosures near Phoenix and Florence, but Casa Grande is the most accessible, and consequently the most famous.

"A few miles from Phoenix, on the old Florence road, may be seen the ruins of two or three towns, and several stupendous canals from twenty to twenty-five feet in width, one of which received its water near the mountains twenty-odd miles away. Between two and three miles from Vail and Helwig's flouring mill, there was evidently once a large town. The ruins of one building at present remain, and measures two hundred and sixty by one hundred and thirty feet. Scattered all around in every direction are mounds which are supposed to be remains of habitations. The walls of the above described ruins still measure ten or eleven feet in height. Between twelve and fourteen miles from Phoenix is another extinct system of canals and reservoirs, and ruins of what must have been a populous city. For miles around you may see mounds and piles of ruins. In this city was a building three hundred and fifty feet in length by probably one hundred and seventy-five in width; one of the largest, if not the very largest, on the Salinas. This building, and other lesser ones, were inclosed by a wall that must have been six hundred by three hundred feet. As

at the Casa Grande, pieces of plate, pottery, and other articles of earthenware may be found scattered among the ruins and along the beds and banks of the old canals. A few miles east of Florence are some ruins discovered by Lieutenant Ward of the U. S. army some years ago. The principal ruin is a parallelogram fortification, sixteen hundred feet in length by six hundred in width, constructed of stone brought from the neighboring mountains. In many places this wall has been overgrown by vines and shrubs; in other places it has fallen over or been thrown down by the elements, while in some places it has either disappeared beneath the surface, or has been covered up by debris or moving sand. In many places the wall is twelve feet in height, and as erect and perfect as it was when erected, probably over a thousand years ago. Within this inclosure is the ruin of a structure of roughly-hewn stones two hundred and seventy-five by two hundred feet, one of the interior walls of which still betrays perfectly distinct tracings of a drawing of the sun.

"At the south-east corner of the wall is a tower which must have been of considerable altitude, as the ruin itself is at present twenty-five feet in height. On the south-west corner is also a companion ruin, at present thirty feet in height. The tops of these columns are crumbling, as great piles of debris at the base of each shaft unmistakably show. Plate, pottery, and carved stone are scattered in all directions, some of which still exhibit a process of indelible staining and glazing. These ruins are situated upon a piece of rising plain, which was watered by a system of canals running from the Gila, a few miles away. On the San Pedro, where it joins the Gila, is a large number of ruins, generally consisting of the foundations of buildings, which have formed villages. These foundations are of rough stones, selected with great care as to their shape, to make a good wall. The buildings on these foundations were of adobe. Similar ruins are found eastward and westward along the Gila in many places; and most of these sites of ancient towns contain the ruins of a building of large size, like Casa Grande, as though it were made use of for some public purpose. Major Emery, of the United States Boundary Commission, says the ruins on the San Pedro indicate a population of one hundred thousand."

From the *Phoenix Gazette* we clip the following description of one of the many ruins in its vicinity:

"Four miles north-east of town, near Ross' Mills, there are several large and regularly-shaped mounds. The largest of these mounds is within twenty feet of the well-traveled road to Tempe. It is about forty feet high, and when once the curiosity-hunter has clambered over the fragments of adobe and earthen pottery which cover the sides to the summit, he is rewarded by discovering the well-defined divisions of what was once a large house. Although large trees of the slow-growing mesquite have sprung up, the adobe

walls which divided the interior of the building into rooms still remain whole and intact a foot beneath the surface. In some of these walls there still remain the ends of the rafters used to support the floors. All these pieces of rafters are charred, and appear as though they had been at one time subject to intense heat. Looking to the north-west from the top of this ruin the eye sweeps over a plain thickly dotted with mounds, which differ from the large one only in size, and the whole is enclosed with the remains of what was once a thick adobe wall, the south-east corner of which was formed by the large house. An examination of the ruins discloses a regular system of streets running north and south, intersecting one another, and forming regular and equal-sized squares. Immense quantities of broken pottery strew the ground, and from these fragments a relic-hunter can select, with little patience, a score of pieces, with each piece bearing a different design; but this variety in design applies only to size and shape, as no colors save black, dark-blue, and dark-red appear to have been used by these ancient decorators. Here and there can be found fragments of shell ornaments, bracelets, ear-rings, etc., manufactured from a shell somewhat similar to abalone. Everything connected with this desert of ruins tends to give rise to the opinion that the destruction of the city was sudden, speedy, and complete, but when and in what manner it—in common with other cities—was blotted out from the land we now occupy, must forever remain a matter of conjecture.”

In Yavapai and Apache counties—in fact, in all the country north of the Salt River Valley—these old ruins are found in many places and in great quantities; but their character is very much changed, as here the walls are generally built of stone, more or less dressed. In some cases they occupy the tops of high mountains, or bluffs, or almost inaccessible shelves along the sides of abrupt precipices. In some cases natural caves, which open in cañons of limestone rock, have been taken advantage of, the openings walled up, except a small passage-way, and partition-walls run, dividing the cave-chambers into rooms. These cave-houses show excavations for cisterns and for storing grain. No household implements have been found beyond a few stone axes and metates—a stone implement for crushing by hand any kind of grain. In some cases dwellings have been made by digging into the solid rock of the abrupt sides of a cliff high above the base, and only reached by difficult climbing. The buildings appear to have been rectangular in shape, like those of Salt River Valley; but they are generally smaller, and always indicate that defense was one of the chief objects to be attained.

A correspondent in the *St. Joe Gazette* thus describes some of the cliff dwellings:

“About four miles below Camp Verde there are about fifty cliff or cave dwellings—rooms hewn out in a solid cliff of rock. One

has to use ladders in order to penetrate some of them. The rooms are plastered inside, and have side-rooms leading from the main room. Many of these side-rooms seem to have been used for granaries, for in them have been small cells wherein have been placed ears of corn, cotton, and other seeds, and then cemented over and made air-tight. When these places are picked into, you find the ears of corn at first apparently natural; but when the air strikes them, or the fingers touch them, the grain falls to ashes, leaving nothing but the cob, which seems to be little affected. In one of these cells I found a bunch of well-twisted cotton thread, and another kind of thread which was beyond my comprehension as to what it was made of. There are also, in the open valleys, extensive ruins of great cities. Judging from the debris, many of the buildings have been four or five stories high, built of stone neatly dressed, showing considerable mechanical skill in their construction. The parts of walls that are still standing bear traces of ancient writings and sculpture, with crosses and notches cut deep into the solid rock at regular intervals. There are also traces of canals and reservoirs of vast dimensions, from which it is inferred that the country at one time was fertile and well-watered. With the exception of broken pottery but few relics are found. These pieces of pottery are remarkable, from the fact that they have been finely glazed, and bear paintings of flowers and ornamental figures; the coloring matter of a high mineral substance of some kind, which cannot or has not been defaced, and appears to be perfectly indelible. These relics have been exposed to the storms which have worn away the solid masonry of the walls, and show the colors as fresh and bright, to all appearances, as when new. The pottery itself has been found to be perfectly fire-proof, upon a severe trial in crucibles, while the heat of furnaces will not affect it.

"In the streets of Prescott, as the earth is worn and the winds blow it away, can be traced the walls of an ancient city, evidently as old as time itself. In the grading of our streets, excavating for cellars, and in digging wells, traces of the race that once lived in this—to Americans—new land, are found implements of war and domestic use many feet beneath the surface and under the hardpan, which is next to the rock itself, convincing in every particular that this is a very old land. North-west of Prescott, along the banks of the grand cañon of the Colorado River, where it is thousands of feet from the top to the water—perpendicular as a wall—stone buildings are still standing. As the country back from the river has no water for miles, the inhabitants of these buildings must have obtained their water from the Colorado, which does not, at its present depth, appear possible."

In the Big Chino Valley, north of Prescott, can be seen the walls of more than a hundred houses. The debris has collected around these walls to the depth, in some cases, of seven or eight

feet. The walls are built of clay and stone, and plastered on the inside. The stone has been brought from a mesa at some distance. In one of these buildings were found three skeletons, and a large earthenware vessel containing the remains of grain. Stone axes were also found. South of Prescott, on the ridges on both sides of the Hassayampa, ruins of stone houses are found in many places. They generally show a small cluster of houses surrounded by a stone wall, and in all cases occupy a defensive position, while giving a wide outlook in the valley below.

ARIZONA.—HOW IT DERIVED ITS NAME.

“The Zuñia Indians believe that in the beginning a race of men sprang up out of the earth, as plants arise and come forth in the spring. The race increased until they spread over the whole earth, and, after existing through countless ages, passed away. The earth then remained without people a great length of time, until at length the sun had compassion on the earth, and sent a celestial maiden to repeople the earth. This young goddess was called Arizona—the name signifying Maiden Queen. This Arizona dwelt upon the earth a great length of time in lonely solitude, until at a certain time, while basking in the sunbeams, a drop of dew fell from heaven and rested upon Arizona, who in due time blessed the world with twins—a son and daughter—and these became the father and mother of the Zuñia Indians, and from this tribe arose all other races of men. The Zuñia is the only pure original stock of children of the sun now on the earth.”

“The name of Arizona, or El Arizona, was originally applied to a Real de Minas near the headwaters of the Rio del Aquimari—the larger branch of the Rio del Altar—at the entrance of the Cañon del Inferno, some twelve miles to the southwest of the celebrated mines of the Planchas de Plata. It is now but a rancho, although remains of the former buildings are still to be met with. This place was for a long time the extreme north point attained by the conquest of the Spaniards, and the name Arizona is often given to the country thereabout. In the early part of the last century the country to the northward towards the Rio Gila and Rio Santa Cruz became better known, and at that time we find the name erroneously given to the newly discovered region. As for the name Arizona, it actually means *at the foot of the mountain*, or *where the mountains end*. The spelling in the Papago language would be *Arizaka* or *Arizana*—the name most certainly given by the Papagoes or Pimas, on account of the situation of El Arizona at the foot of the high range of

mountains of the Planchas de Plata to the east, and the Sierra del Agua Caliente to the north, where towards the west and south extends a rolling, hilly country. Other persons say that there is a word in the Aztec language—*Arizuma*—signifying Land of Silver, and that these ancient inhabitants of Mexico, if they did not actually people the Territory, extended their government and mining ventures to its southern borders, and gave it the name of *Arizuma*—the Land of Silver. The first bill introduced into the National Congress for the organization of this Territory called it *Arizuma*. Again, it is said that the first explorers of this region were Spanish adventurers, who entered it from the Gulf of California by the way of the Colorado, and then up the Gila, where the hot sandy plains, and dry, treeless plateaus or mesas gave them the impression that the country was a dry barren region, and hence they gave it the name *Arida Zona*—barren zone—and that use has contracted it to *Arizona*, and extended the name to our whole Territory.”

RAILROADS.

The Railway stands confessedly as one of the greatest of all human contrivances—one of the grandest achievements of human ingenuity—one of the proudest conquests of the power of mind over the domain of matter. The restless giant steam, under the curb and control of mind, far outstrips feeble and impotent muscle in the march of progress and improvement. The record of the superiority which the one has achieved over the other, is as interesting as any tale of the genii of Arabian story. It is the romance of civilization, and grows in interest as the index finger on the dial plate of time marshals the ages by in grand procession. Railroads have been pioneers of great public improvements, especially in our own country. In their wake have followed individual wealth and national prosperity. Through the length and breadth of our fair possessions they have been missionaries of good. They have built up cities, towns and villages, and diversified landscapes with grain-fields, orchards or gardens; they have disturbed the silence of sixty centuries, and made the gloom of the forest and mountain give way to the glory of the vineyard and field. The Railroad is the acme of rapid transit, and has no rival in its method and means of transportation. It opens up waste plateaus and arid plains, and makes deserts blossom as the rose. It penetrates uninviting hillsides and mountains, and wakes up the raw material which lies slumbering therein. It is a great advertiser—it makes known to the world the natural wealth of

the section through which it takes its way. It bears its precious burdens over and under and through mountains, and over and under rivers, by night and by day. It opens up vast treasures of mineral and agricultural wealth, and carries its fructifying influences into every land. It traverses alike the summits of the snow-clad mountains of Switzerland and California, and the deserts of Sahara and Arizona. It is the greatest civilizer of the age—it pushes the red man of America and the sepoy of India out of its way, and brings the prairies of the one and the jungles of the other into the pale of civilization and society. Wherever you find the railroad, you behold people who hew out for themselves positions of usefulness in society; people who wrestle with poverty or a sparse inheritance, and weave crowns from the flowers of industry. All along these marvellous thoroughfares you see churches and school-houses—those twin sisters of civilization, spring up and dispense light, liberty, education, and religion all around. Every year are developed more and more among the residents along the lines of these incomparable means of transit, the instincts of a higher and nobler manhood. Lands increase in value and homes are yearly improved, adorned and beautified.

SOUTHERN PACIFIC RAILROAD.—Upon the completion of the Grand Trunk Line of the Central Pacific Railroad, surveyors were sent into that portion of California known as the upper San Joaquin Valley. On the 13th of January, 1870, a party of surveying officers under Engineer Ives ran a line from Lathrop, and continued its work on to what is now called Goshen, nearly 150 miles south and east of the point above designated on the main line. On the first day of April, 1872, trains were run from Lathrop to Merced. On the 25th of July of the same year, what is known as the Visalia Division of the Central Pacific Railroad was completed to Goshen, 146 3-10 miles from Lathrop, and most of it through about as uninviting a country as at that time could be seen anywhere in California. Not only were the beautiful cities of Modesto, Merced and Fresno not in embryo even, but there were only here and there a habitation, and that of the ruder sort.

Subsequently, the Southern Pacific Railroad Company was organized; and on the 18th of December, 1874, Mr. Charles Crocker, who had been not only one of the original incorporators of the Central Pacific, but the master mechanical spirit of the same, was elected President; Gen. David D. Colton, Vice-President; J. L. Wilcutt, Secretary, and E. H. Miller, jr., Treasurer. In the meantime 21 miles of road, running from Los Angeles to Wilmington, had been purchased and consolidated with the system, and 31 miles of what is known as the San Diego branch, from Los Angeles to Anaheim, were constructed. October 26th, 1874, the Southern Pacific reached Sumner, 94 miles from Goshen. The foot of the Tehachepi Mountains, 22 miles further, was reached April 26th, 1875. While this work was going on through the

valleys west of the Coast Range, a force of men was engaged in penetrating the Tehachepi Mountains, and also in tunneling under the San Fernando spur, and in building sections from Los Angeles to San Fernando, 20 miles, and south-east to Spadra, 29 miles. On May 26th, 1876, the road was opened from Caliente to Keene's, 13 miles; and from Keene's to Mohave, 32 miles, on the 9th of August of the same year; and displaying to the traveler an exhibition of engineering without a parallel. On the 6th of September, less than one month after the arrival of the first regular train from San Francisco to Mohave, a gap of 73 miles had been closed, and the road was completed and in running order from Goshen to Spadra; that part of the road from Los Angeles to the latter point having been completed on the 15th of April, 1874, and still on to Colton, 28 miles further, July 16th, 1875; from Los Angeles to San Fernando on the 15th of April, 1874, and to the tunnel January 1st, 1876. Los Angeles now became an important railroad center, the iron horse arriving and departing daily for San Francisco and way places; Colton, 57 miles, and way places; Anaheim, 31 miles, and intermediate stations; Wilmington, 21 miles, and Santa Monica, 16 miles. Population flocked from all quarters, and lands went up in value to an enormous price. On the 23rd day of May, 1877, the Southern Pacific Railroad reached the Colorado River, 248 miles from Los Angeles, and 720 miles from San Francisco. Thus terminated the system of what is known as the Southern Pacific Railroad of California; and in addition 40 miles of road from Goshen to Huron were completed February 1st, 1877.

SOUTHERN PACIFIC RAILROAD OF ARIZONA.—We now arrive at another important part of the system of railroads, which, without the successful operation of the Central Pacific, would not now be in existence; and under the successful management of other men, less determined, and less energetic, and less public-spirited than Charles Crocker, Leland Stanford, and C. P. Huntington, we might have had no Southern Pacific Railroad to-day, and no intercourse with California, except that afforded through the old methods of ship and stage. While other operators, then, were and had been for years imploring Congress for financial aid for the spanning of the Colorado and Arizona by rail, contracts were being made for iron and ties for the further extension of the steel highway, and on the 7th of October, 1878, the Southern Pacific Railroad of Arizona was incorporated, with Gen. D. D. Colton as President, C. F. Crocker as Vice-President, H. M. Wright as Secretary, and F. S. Dooty as Treasurer. Subsequently, on the death of Gen. Colton, Mr. C. F. Crocker was elected President, and A. P. K. Safford Vice-President, the other officers remaining as before.

On November 19th, 1878, ground was broken at Yuma, and half a mile of track laid the same day. On January 8th 30½ miles had

L. BASHFORD & CO., PRESCOTT, A. T., GENERAL MERCHANDISE.

been laid and the road opened; on February 1st the road had been completed 64½ miles, and on May 19th the Southern Pacific Railroad of Arizona had been built in a first-class manner of steel rails, and was opened to Casa Grande, a distance of 183 miles from Yuma, or 913 miles from San Francisco—nearly the length of the trunk line of its senior, the Central Pacific. Railroad building was resumed at Casa Grande on January 26th, 1880, and Tucson was reached on March 20th, 1880, and Deming on December 15th, 1880, where the Southern Pacific formed a conjunction with the Atchison, Topeka, and Santa Fé, and thus a second transcontinental thoroughfare was the result. The Southern Pacific kept right on from Deming, and reached El Paso on May 19th, 1881. It is hardly necessary to add that the work goes right on, and that by July 1st, 1882, the Southern Pacific will have a direct line from San Francisco to the Gulf of Mexico. From El Paso, to San Antonio in Texas, the distance is about six hundred miles, and from San Antonio to New Orleans the distance is less than six hundred miles, and there is already in running order a road from New Orleans to San Antonio, with the exception of a short gap between Vermillionville and Lake Charles. This route is popularly known in New Orleans as the "Sunset Route." Upon the completion of the line, San Francisco and New Orleans will be within about two thousand four hundred miles of each other, or about five days' travel. This is six hundred miles nearer to tide-water than New York, and practically New Orleans is as near to Europe as New York. The largest ships and ocean steamers now ascend to New Orleans, and no doubt but abundant facilities will be provided for European travel. Mr. R. S. Spofford, the attorney of the Sunset Route, thinks, that with the completion of the Southern Pacific Railroad, the staples of the Pacific Coast, destined for domestic and foreign markets, will find shipment at New Orleans.

As an auxiliary to this business, freight and passenger lines will be established between New Orleans and European ports, which will be conducted with a view to attracting a large European immigration into the South-western States and Territories. It is also contemplated to open railway communication between San Antonio and the City of Mexico. Between San Francisco and New Orleans there will be twenty-four hundred miles in length of territory, of which these two centers will be the shipping ports, and the Southern Pacific the intermediate connection. The way and through traffic which will spring up must be enormous. An immense and rich mineral belt lies between the two cities, extending through Arizona, New Mexico, and the Northern States of Mexico. San Francisco will supply one portion of the Territory and New Orleans another.

In illustrating the advantage which the Southern Pacific Railroad has been to Arizona, a Tucson correspondent says:

“My last trip to this place, from San Francisco, thirteen years ago, cost me \$25 from San Francisco to Los Angeles; time, four days and nights on top of a stage; no sleep, and meals 75 cents each. I laid over in Los Angeles two days, partly to wait for a stage and partly because I was tired out. Then I took a stage for Fort Yuma, for which trip I paid \$60, and traveled four days and three nights; paying \$1 per meal for pork and beans, villainous coffee, and corn-dodgers. After resting in Arizona City for a day I took a vehicle for Tucson; fare, \$75; time, four days and nights; no sleep to speak of, and meals a dollar each; taking in all fourteen days, and costing \$193. It now takes but two days to make the trip, the expenses of which are as follows: Ticket from Tucson to San Francisco, \$55; sleeping-car ticket, \$6.50; meals, about \$6; in all \$67.50, and in the two days, as against fourteen days a few years ago.” Upon the completion of the Southern Pacific to Tucson, the *Citizen* of that date says: “There was rejoicing in Arizona last night. The iron horse panted into Tucson, and with its neigh gave notice that a new order of things was about to be established. The horrors of that Sahara, which stretches for many leagues beyond Yuma, are hereafter to be but themes for jest. The heart of Arizona has been moved up within two days’ ride of the port of San Francisco. The days of mustangs, Indians, and barbarism in a hundred forms, are over for Arizona. The modern evangel—the locomotive—has come to bring comfort and joy to our Territory, and will now minister to every enterprise, and back every energy of the people here. With the advent of the Southern Pacific Railroad a new era has dawned on Arizona; our mental, moral, and material progress have commenced with a rapidity never witnessed in older communities; and our great natural advantages, thus aided and stimulated, will render this progress on the road to wealth and prosperity permanent.”

ATLANTIC AND PACIFIC RAILROAD.—This road, sometimes called the thirty-fifth parallel road, is now completed and in full operation to Fort Wingate, one hundred and forty-five miles west of Albuquerque, New Mexico; and it is confidently expected that by August, 1881, Brigham City, Apache County, a distance of two hundred and eighty-five miles from Albuquerque, will be reached. In an article describing the route of this road, the *Albuquerque Journal* says:

“The Atlantic and Pacific passes along the rich valley of the Rio Grande, crossing that stream at Isleta, then stretching over the divide between the Rio Grande and Rio Puerco, up the beautiful valley of San Jose to the continental divide. The valley is chiefly cultivated by Mexicans and Pueblos, a very peaceable tribe of Indians, who will become an important factor; and will undoubtedly assert itself when the hand of industry, progress, and enterprise shall stretch forth across this charming valley.

Thence down the valley of the Rio Puerco of the West by Fort Wingate. This valley is used extensively by the Navajo Indians for sheep-raising. These Indians are not an agricultural tribe like the Pueblos, but are largely engaged in stock-raising, comprising horses, cattle, and sheep; and great herds of these can be seen passing through this valley in view of their mountainous reservation. These Indians, like their brethren, the Pueblos, are peaceable; and their large productions of wool, pelts, and hides will develop a large traffic, and increase the trade of our industrious business men.

“Striking the Little Colorado at Holbrook, running down the valley of this river, and passing through the Mormon settlements of St. Joseph, Sunset, and Brigham City; crossing cañons and ravines south of these points; passing hard by the San Francisco Mountains, which are covered with valuable timber, and abound in wild game; clear and beautiful springs, gushing forth from the mountains, enrich the valleys with their beneficent influence. Nowhere does the country afford lands better adapted for stock-raising and agricultural purposes than the valleys of the San Francisco Mountains. Enterprises are here met half-way. Nature has crowned this region with everything calculated for the happiness of man. The huntsman, the agriculturist, the stock-raiser, and the lumberman, alike find here the opportunities to rise swiftly above want to prosperity and comfort. The tourist, too, can find here ample enjoyment, and refresh himself with the enchanting and wild beauties of nature. The weary wanderer, whose toils have shattered health upon life’s arduous pathway, is hailed by the quickening influences of the climate; and when these peaks become dotted with the modern inns of the nineteenth century, and progress has wrought the changes incident to an advanced civilization, this locality will become a favorite spot for the sons and daughters of our country. Let the people of the East, the North, and South, sally forth and take early advantage of the great opportunities held out to the enterprising and industrious arm of man by this locality.

“Having passed the San Francisco Mountains, the line stretches across the Arizona divide at an altitude of 7,285 feet; and through the plains beyond, where it reaches the junction for Prescott, Arizona, sixty miles distant, passing through the famous mineral regions of that Territory, rich in resources as well as vast in area. The prospector in quest of the precious metals will find his reward in this locality. The entire region from the mountains to the Big Colorado River, 565 miles from Albuquerque, is covered with grass and cedars, and is well adapted for grazing purposes.

“The line crosses the Big Colorado River, near the Needles, about two hundred miles from Yuma. An elegant and substantial bridge will be constructed across this stream, which is designed to rival in skill and mechanism structures of like character, and is to

be in consonance with the superior construction and equipment of this great highway. This river is navigable as far up as Fort Mohave, about two hundred and fifty miles from Yuma, and boats ply between these points. The line stretches across the plain from the Big Colorado—about three hundred miles—to San Buenaventura, on the coast, and thence follows along the coast of California to San Francisco. A line is also built from San Diego northward through Cajon Pass—about one hundred and twenty-five miles—to a connection with this road."

When completed, the Atlantic and Pacific will open up the northern portion of Arizona, as the Southern Pacific has the southern portion; and make accessible the rich mineral regions in Apache, Yavapai, and Mohave Counties.

ATCHISON, TOPEKA AND SANTA FE RAILROAD.—This road, which has already made a conjunction with the Southern Pacific at Deming, New Mexico, is being energetically extended, and surveys are now being made through Southern Arizona, to ascertain the most practicable route for a road to connect with the section now being built by the same company from Guayamas, Mexico, to Calabasas, Arizona.

UTAH AND ARIZONA RAILROAD.—This is a projected road to run north from Tucson to a junction with Jay Gould's Southern Utah Railroad. Such a road, when built, would do wonders toward binding together north and south Arizona. From Tucson it is the intention to pass north through Florence, running east and near Fort Verde, crossing the great Colorado cañon and river by a suspension bridge, higher than that over the Niagara river, and developing in its progress the great, and as yet untouched, timber regions and coal beds of Apache County. The total length of this road will be 698 miles.

PRESCOTT AND THIRTY-FIFTH PARALLEL RAILROAD.—This company contemplate the construction of a road from Prescott to connect with the Atlantic and Pacific. Articles of incorporation have been filed, and in all probability operations will soon commence. The charter granted by the last Legislature exempts the road from county taxation for a period of six years.

MARICOPA, PHOENIX AND PRESCOTT RAILROAD.—This company have recently filed articles of incorporation. It is proposed to commence operations immediately, and construct the road as rapidly as circumstances will admit, thus connecting Prescott with the Southern Pacific at Maricopa.

PINAL AND PICHACO RAILROAD.—The preliminary surveys show the length of this contemplated road to be forty-six miles, with no important difficulties in the way. When completed, it will afford cheap and rapid transportation from the Southern Pacific to one of the richest mineral regions of Arizona.

YUMA AND PORT YSABEL RAILROAD.—The survey of the line of this road is now being made by the Southern Pacific R. R. Co. The terminus will be at deep water, at the head of the Gulf of California, where wharves and warehouses will be built, and other shipping facilities established. When the road is completed, a line of fast steamers will connect with Guaymas, Mazatlan and other Mexican ports.

In addition to the above lines several others are projected, viz: from the Southern Pacific at Benson to Tombstone; from Prescott via San Francisco Mountains and San Juan country to Durango in Colorado; from Prescott to St. George, Utah; from some point on the line of the Southern Pacific to Globe; and also a road from the newly discovered coal fields on Deer Creek, to intersect with the Southern Pacific.

PAINTED ROCKS.

About six miles from Oatman's Flat, on a hard gravel and rock mesa, surrounded by the peaks of the Arizona Mountains, rises abruptly a pile of boulders some fifty feet in height, and perhaps covering at the base an acre or more of ground. These boulders are from a size which a man might easily lift up, to a ton in weight. Their peculiar shape and position gives the appearance of having been collected and thrown up here in a loose pile. By going to the top, however, it will be seen that they have broken from a ledge, and that there their edges and corners are less rounded than those found at the base, or strewed over the plain. They are of hard granite, with a smooth surface. Many of these boulders have been painted over, and on most of them have been carved or painted rude hieroglyphics, of many shapes and figures. There are squares, diameters, long and short straight lines, sometimes tied together by other straight lines, and sometimes by regularly curved lines, circles, and circles quartered by bisecting diameters—figures which look like gridirons and kite frames; and then there are rude representations of men and women, children, dogs, horses, mules, snakes, turtles, lizards, insects and birds. They have the appearance of a rude picture-writing, which undoubtedly they are, and chronicle the important events of some prehistoric Indian race, who here relate, perhaps, their boundaries, wars, or victories, or perhaps only the name and individual prowess and adventures. The archæologist and reader of prehistoric alphabets will find in these hieroglyphics, as well as in the old ruins found in all parts of the Territory, abundant sources to excite his curiosity, and exercise his study and skill.

TIME SCHEDULE.

(SAN FRANCISCO TO DEMING.)

CENTRAL PACIFIC RAILROAD.

San Francisco to Deming.		TRAINS RUN DAILY.		Deming to San Francisco.	
S. P. Atlantic Express 19	Mls from S.F.	† Meals. * Telegraph Offices.		S. P. Pacific Express 20	
9.30 A. M.		leave.....	SAN FRANCISCO.....	arrive	3.35 P. M.
9.50 A. M.		.....	Oakland Wharf.....	.....	3.05 P. M.
2.00 P. M.	94	lv.....	* Lathrop.....	ar	11.10 A. M.
2.26	105	.....	Ripon.....	.....	10.46
2.34	108	.....	Salida.....	.....	10.39
2.52	114	.....	* Modesto.....	.....	10.23
3.24	127	.....	* Turlock.....	.....	9.52
4.30	152	.....	* Merced.....	.....	8.55†
4.55	162	.....	* Athlone.....	.....	8.03
5.35	178	.....	Berenda.....	.....	7.27
6.20†	185	.....	* Madera.....	.....	7.10
6.27	188	.....	* Borden.....	.....	7.03
7.07	207	.....	* Fresno.....	.....	6.20
7.51	227	.....	* Kingsburg.....	.....	5.35
8.08	235	.....	Cross Creek.....	.....	5.18
8.22 P. M.	241	ar.....	* Goshen.....	lv	5.04 A. M.

SOUTHERN PACIFIC RAILROAD.

8.22 P. M.	241	lv.....	* Goshen.....	ar	5.04 A. M.
8.50	251	.....	* Tulare.....	.....	4.40
9.51	282	.....	* Delano.....	.....	3.31
11.00	314	.....	* Sumner.....	.....	2.25
11.59 P. M.	336	.....	* Caliente.....	.....	1.20
1.20 A. M.	350	.....	* Keene.....	.....	12.05 A. M.
	352	.....	The Loop.....	.....
2.20	362	.....	* Tehachapi Summit.....	.....	11.10 P. M.
3.20	382	.....	* Mojave.....	.....	10.00
5.25	431	.....	* Ravena.....	.....	7.35
6.15	452	.....	* Newhall.....	.....	6.40
6.30	456	.....	San Fernando Tunnel.....	.....	6.25
6.45	461	.....	* San Fernando.....	.....	6.05
7.30† A. M.	482	ar.....	* Los Angeles.....	lv	5.15 P. M.
8.00 A. M.	482	lv.....	Los Angeles.....	ar	4.45† P. M.
8.20	491	.....	San Gabriel.....	.....	4.23
8.27	494	.....	* Savanna.....	.....	4.18
8.30	495	.....	* Monte.....	.....	4.15
8.45	501	.....	Puente.....	.....	4.00
9.10	511	.....	* Spadra.....	.....	3.36
9.20	515	.....	* Pomona.....	.....	3.28
10.40†	540	.....	* Colton.....	.....	2.25†
10.50	543	.....	Mound City.....	.....	1.50
11.50 A. M.	563	lv.....	San Geronio.....	ar	12.55

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

TIME SCHEDULE — CONTINUED.

(SAN FRANCISCO TO DEMING.)

SOUTHERN PACIFIC RAILROAD.

San Francisco to Deming		TRAINS RUN DAILY.		Deming to San Francisco.	
S. P. Atlantic Express 19	Mls from S. F.	† Meals. * Telegraph Offices.		S. P. Pacific Express 20	
12.05 P. M.	569	lv.	Banning.....	ar	12.37 P. M.
12.42	583		White Water.....		12.00 M.
1.55	612		Indio.....		10.50 A. M.
3.05	642		*Dos Palmas.....		9.38
3.30	653		Frink's Spring.....		9.10
6.15	715		Ogilby.....		6.10
6.33	721		Pilot Knob.....		5.55
7.00† P. M.	731	ar.	*Yuma.....	lv.	5.30 A. M.

SOUTHERN PACIFIC RAILROAD OF ARIZONA.

7.30 P. M.	731	lv.	Yuma.....	ar	5.00† A. M.
10.00	793		Texas Hill.....		2.33
10.52 P. M.	816		Stanwix.....		1.39
12.15 A. M.	850		Gila Bend.....		12.15 A. M.
1.44	887		*Maricopa.....		10.35 P. M.
2.47	913		*Gasa Grande.....		9.26
6.00†	978		*Tucson.....		6.30†
7.30	1006		*Pantano.....		4.35
8.25	1024		*Benson.....		3.42
10.55† A. M.	1064		*Willcox.....		1.40† P. M.
12.53 P. M.	1104		*San Simon.....		11.26 A. M.

SOUTHERN PACIFIC RAILROAD OF NEW MEXICO.

2.25 P. M.	1138		* Lordsburg.....		9.48 A. M.
4.10	1178		Gage.....		7.51
5.00† P. M.	1198	ar.	* Deming.....	lv	7.00 A. M.
10.20	1271		Strauss.....		1.20
11.40 P. M.	1286		El Paso.....		12.05 A. M.

C. P. R. R. Trains are run by San Francisco Time, being slower than Washington Time 3 h. 2 m.; Boston, 3 hrs. 26 m.; New York, 3 hrs. 14 m.; Chicago, 2 hrs. 19 m.; St. Louis, 2 hrs. 9m.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

TIME SCHEDULE.

(DEMING TO KANSAS CITY.)

ATCHISON, TOPEKA AND SANTA FE RAILROAD.

DEMING TO KANSAS CITY.

TRAINS RUN DAILY.

Kansas City to Deming.

Express.	Miles.	† Meals.	Express.
8.00 P. M.	1149	lv..... Deming..... ar	7.45† A. M.
8.35	1134	..... Porter.....	7.05
9.34	1110	..... Sellers.....	5.38
10.05	1097	..... Rincon.....	4.43
11.02 P. M.	1079	..... Upham.....	3.47
12.08 A. M.	1048	..... Crocker.....	2.25
1.15	1021	..... San Marcial.....	1.15
2.25	994	..... Socorro.....	12.10 A. M.
4.26	949	..... Belen.....	10.16 P. M.
4.50	939	..... Los Lunas.....	9.52
5.40	918	..... Albuquerque.....	9.05
6.19	902	..... Bernalillo.....	8.26
7.10	881	..... Wallace.....	7.35
7.39	870	..... Cerillo.....	7.03
8.00	863	..... Ortiz.....	6.40
9.00†	851	..... * Lamy.....	6.05†
10.07	841	..... Glorieta.....	4.50
10.35 A. M.	832	..... Kingman.....	4.13
1.00† P. M.	786	ar..... Las Vegas..... lv	1.45 P. M.
1 25 P. M.	786	lv..... Las Vegas..... ar	1.25† P. M.
2.50	758	..... Shoemaker.....	12.01 P. M.
3.50	741	..... Wagon Mound.....	11.05 A. M.
5.00	716	..... Springer.....	10.00
5.40	702	..... Dorsey.....	9.25
6.42	681	..... Otero.....	8.32
7.20†	676	..... Raton.....	8.20†
9.40 P. M.	653	..... Trinidad.....	5.50
1.50 A. M.	571	ar..... **La Junta..... lv	1.00 A. M.
2.00 A. M.	571	lv..... La Junta..... ar	12 45 A. M.
2.26	562	..... Robinson.....	12.15 A. M.
2.55	552	..... West Las Animas.....	11.45 P. M.
3.05	548	..... Las Animas.....	11.30
5.30 A. M.	497	ar..... Granada..... lv	8.45 P. M.
5.35 A. M.	497	lv..... Granada..... ar	8.40 P. M.
6.30†	484	..... Sargent.....	8.00†
7.43	458	..... Aubrey.....	6.35
9.10	425	..... Sherlock.....	5.12
9.25	418	..... Garden City.....	4.55
9.57	406	..... Pierceville.....	4.25
10.43	387	..... Cimarron.....	3.37
11.40 A. M.	369	lv..... Dodge City..... ar	2.50

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

TIME SCHEDULE.—CONTINUED.

(DEMING TO KANSAS CITY.)

ATCHISON, TOPEKA, AND SANTA FE RAILROAD.

DEMING to KANSAS CITY.		TRAINS RUN DAILY.		Kansas City to Deming.
Express.	Miles		† Meals.	Express.
1.15 P. M.	333	lv.	.....Kinsley.....	1.15
1.35	325	.....	.....Nettleton.....	1.00
1.52	319	.....	.....Garfield.....	12.45
2.40†	308	.....	.....Larned.....	12.22† P.M.
3.04	299	.....	.....Pawnee Rock.....	11.40 A. M.
3.40	286	.....	.....Great Bend.....	11.08
4.08	276	.....	.....Ellinwood.....	10.45
4.36	265	.....	.....Raymond.....	10.23
5.10	253	.....	.....Sterling.....	9.56
5.30 P. M.	245	ar.	.....Nickerson.....	9.40 A. M.
5.35 P. M.	245	lv.	.....Nickerson.....	9.35 A. M.
6.00	234	.....	.....Hutchinson.....	9.07
6.35	220	.....	.....Burton.....	8.30
6.58	211	.....	.....Halstead.....	8.07
7.38	201	.....	.....Newton.....	7.40
7.55	194	.....	.....Walton.....	7.15
8.20	184	.....	.....Peabody.....	6.53
9.10†	173	.....	.....Florence.....	6.30†
9.56	154	.....	.....Elmdale.....	5.20
10.12	148	.....	.....Cottonwood.....	5.05
10.40	137	.....	.....Plymouth.....	4.35
11.10	128	.....	.....Emporia.....	4.10
11.59 P. M.	113	.....	.....Reading.....	3.20
12.29 A. M.	101	.....	.....Osage City.....	2.53
12.52	93	.....	.....Burlingame.....	2.33
1.05	88	.....	.....Scranton.....	2.20
1.15	84	.....	.....Carbondale.....	2.10
2.00 A. M.	67	ar.	.....Topeka.....	1.15 A. M.
2.25 A. M.	67	lv.	.....Topeka.....	12 55 A. M.
3.04	51	.....	.....Lecompton.....	12.17
3.15	46	.....	.....Lakeview.....	12.05 A. M.
3.30	40	.....	.....Lawrence.....	11.50 P. M.
3.55	33	.....	.....Eudora.....	11.27
4.40	17	.....	.....Wilder.....	10.46
5.30 A. M.	0	ar.	.....Kansas City.....	10.00 P. M.
2.20 A. M.	51	lv.	.....Topeka.....	12.50 A. M.
3.17	35	.....	.....Rock Creek.....	12.05 A. M.
4.15	17	.....	.....Nortonville.....	11.10 P. M.
5.10 A. M.	17	ar.	.....Atchison.....	10.25 P. M.

* Junction for Santa Fe, 18 miles distant. ** Junction for Pueblo, Denver, and Colorado.

A. T. & S. F. R. R. Trains are run by Jefferson time, being 2 hours faster than S. F. time.

L. BASFORD & CO., Prescott, A. T., DEALERS IN GRAIN.

STAGE ROUTES.

* Connect with stages for other points.

The following table gives a complete list of stage routes from stations on the Southern Pacific Railroad and prominent towns throughout Arizona, with time of departure, distances, and rates of fare:

FROM	TO	LEAVE	MILES	FARE
Benson.....	Contention City.....	Daily.	18	\$ 2 50
"	*Tombstone.....	"	28	4 00
Casa Grande.....	*Florence.....	"	28	5 00
Dos Cabezas	Willcox.....	Tri-Weekly.		
Florence	Pinal City.....	Daily.	27	4 00
"	*Silver King.....	"	34	5 00
"	Riverside.....	Tri-Weekly.	33	5 00
"	Mineral Creek.....	"	50	8 00
"	Globe.....	"	90	12 00
"	Casa Grande.....	Daily.	28	5 00
"	Pichaco.....	"	27	5 00
Globe.....	*Silver King (saddle train)	"	25	5 00
"	Mineral Creek.....	Tri-Weekly.	40	4 00
"	Riverside.....	"	57	7 00
"	*Florence.....	"	90	12 00
"	San Carlos.....	Every other day.	34	
"	Camp Thomas.....	" " "	69	
"	Fort Grant.....	" " "	108	
"	Willcox.....	" " "	128	20 00
"	McMillen.....	Daily.	20	3 00
Harshaw.....	Pantano.....	"	50	6 00
"	Washington Camp.....	"	14	1 50
"	Camp Evans.....	Tri-Weekly.	25	
"	Camp Huachuca.....	"	40	
"	Charleston.....	"	55	
"	*Tombstone.....	"	65	8 00
Maricopa.....	*Phoenix.....	Daily.	28	5 00
Pantano.....	Harshaw.....	"	50	6 00
"	Washington Camp.....	"	64	7 50
Phoenix.....	*Seymour.....	"	50	
"	Vulture Mine.....	"	61	
"	Wickenburg.....	"	60	
"	*Prescott.....	"	125	20 00
"	*Gillette.....	"	40	
"	Tip Top.....	"	49	
"	Big Bug.....	"	66	
"	*Prescott.....	"	100	20 00
"	Maricopa.....	"	28	5 00
"	Fort McDowell.....	Tri-Weekly.	34	
Pichaco.....	*Florence.....	Daily.	27	5 00
Pinal City.....	*Florence.....	"	27	4 00
"	*Silver King.....	"	7	1 00
Prescott.....	Wickenburg.....	"	65	
"	*Seymour.....	"	75	
"	Vulture Mine.....	"	86	
"	*Phoenix.....	"	125	20 00

E. IRVINE & CO., Phoenix, A. T., MEDICINES, PAINTS, OILS AND GLASS.

STAGE ROUTES—CONTINUED.

FROM.	TO	LEAVE	MILES	FARE
Prescott.....	Big Bug.....	Daily.	34	\$
".....	*Gillette.....	"	60	
".....	Tip Top.....	"	69	
".....	*Phoenix.....	"	100	20 00
".....	Crook Cañon.....	Semi-Weekly.	15	2 00
".....	Turkey Creek.....	"	19	3 00
".....	Alexandra.....	"	32	7 00
".....	Tiger Mine.....	"	41	9 00
".....	Minnehaha.....	"	49	
".....	Walnut Grove.....	"	64	
".....	Antelope Valley.....	"	90	16 00
".....	Brigham City.....	Daily.	200	25 00
".....	Fort Verde.....	"	45	
".....	Hackberry.....	"	120	20 00
".....	Mineral Park.....	"	148	20 00
".....	Hardyville.....	"	182	23 00
".....	Fort Mohave.....	"	190	26 00
San Simon.....	Galeyville.....	"	25	4 00
Silver King.....	Globe (saddle train).....	"	25	5 00
".....	Final City.....	"	7	1 00
".....	*Florence.....	"	34	5 00
Tombstone.....	Contention City.....	"	10	1 50
".....	Benson.....	"	28	4 00
".....	Charleston.....	"	10	1 50
".....	Hereford.....	Tri-Weekly.	25	3 50
".....	Bisbee.....	"	40	5 50
".....	Charleston.....	"	10	1 50
".....	Camp Huachuca.....	"	25	4 50
".....	Camp Evans.....	"	40	6 75
".....	Harshaw.....	"	65	8 00
Tucson.....	Silver Hill.....	Semi-Weekly.	46	6 00
".....	Silver Bell.....	"	55	7 00
".....	Old Hat District.....	Tri-Weekly.	45	4 00
".....	Arivaca.....	"	65	6 00
".....	Oro Blanco.....	"	75	7 00
".....	Fort Lowell.....	Daily.	9	
".....	San Xavier.....	"	7	1 50
".....	Riverside.....	Weekly.	95	
".....	Tubac.....	Semi-Weekly.	60	5 00
".....	Calabasas.....	"	67	
".....	Magdalena.....	"	130	10 00
".....	Hermosillo.....	"	275	18 00
".....	Guaymas.....	"	370	30 00
".....	Altar.....	"	150	10 00
Willcox.....	Fort Grant.....	Every other day.	20	
".....	Camp Thomas.....	" " "	59	
".....	San Carlos.....	" " "	94	
".....	*Globe.....	" " "	128	20 00
".....	Dos Cabezas.....	Tri-Weekly.		
".....	Fort Bowie.....	"		
Yuma.....	Castle Dome Landing... }	"	30	3 00
".....	*Silver District..... }	"	50	6 00

BULLION SHIPMENTS—1881.

This table comprises the amount of Gold and Silver Bullion shipped from Arizona per Wells, Fargo & Co.'s Express, during the months specified. In addition to this, a large amount of Ore and Bullion was shipped by other conveyances.

SILVER.

Charleston.—January \$141,152, February \$134,125, March \$136,904, April \$110,297, May \$139,027. Total, \$661,505.

Contention.—January \$135,465, February \$113,665, March \$168,329, April \$210,934, May \$259,089. Total, \$887,482.

Florence.—January \$22,003, February \$31,788. Total, \$53,791.

Globe.—January \$20,940, February \$18,460, March \$43,144, April \$41,413, May \$44,241. Total, \$168,198.

Harshaw.—January \$62,590, February \$46,138, March \$47,247, April \$30,836, May \$24,195. Total, \$211,006.

Maricopa.—January \$28,347, February \$33,861, March \$35,913, April \$13,871, May \$84,189. Total, \$196,181.

Phoenix.—January \$900, February \$2,470, March \$1,280, April \$5,800. Total, \$10,450.

Pinal.—April \$71,684, May \$95,208. Total, \$166,892.

Prescott.—January \$1,200, February \$2,400, March \$6,550, April \$12,400, May \$7,790. Total, \$30,340.

**Tombstone.*—March \$2,380, May \$11,550. Total, \$13,930.

Tucson.—January \$4,200, February \$2,665, March \$1,871, April \$3,032, May \$2,870. Total, \$14,638.

Wickenburg.—January \$1,319, February \$349, March \$1,434, May \$5,060. Total, \$8,162.

Willcox.—February \$3,212.

Yuma.—April \$3,326.

GOLD.

Contention.—January \$291, February \$335, March \$503, April \$612, May \$1,041. Total, \$2,782.

Globe.—January \$7,970, February \$7,737, March \$175, April \$810, May \$100. Total, \$16,792.

Pantano.—February \$195, March \$174. Total, \$369.

Phoenix.—March \$175, April \$405, May \$300. Total, \$880.

Prescott.—January \$865, February \$3,341, March \$955, April \$5,041, May \$2,375. Total, \$12,577.

Tucson.—January \$4,980, February \$3,495, March \$1,867, April \$4,105, May \$4,235. Total, \$18,682.

*This amount, added to \$887,482, from Contention, and \$661,505 from Charleston, gives a total of \$1,562,917 worth of silver bullion from the Tombstone mines.

Vulture.—March \$18,800, April \$25,500, May \$25,795. Total, \$70,095.

Wickenburg.—January \$17,300, February \$22,209, May \$750. Total, \$40,259.

Yuma.—January \$2,416, February \$4,250, March \$2,350, April \$900, May \$3,450. Total, \$13,366.

POPULATION OF ARIZONA.

CENSUS OF 1880.

COUNTIES.	DIVISION OF POPULATION.						Total Population of Counties.
	Males...	Females.	Native..	Foreign.	White..	Colored*	
Apache.....	3,064	2,219	4,474	809	3,398	1,885	5,283
Maricopa.....	3,813	1,876	3,442	2,247	5,030	659	5,689
Mohave.....	873	317	857	333	884	306	1,190
Pima.....	12,600	4,407	8,298	8,709	15,616	1,391	17,007
Pinal.....	2,151	893	1,701	1,343	2,931	113	3,044
Yavapai.....	3,724	1,289	3,757	1,256	4,790	223	5,013
Yuma.....	1,977	1,238	1,890	1,325	2,529	686	3,215
Totals.....	28,202	12,239	24,419	16,022	35,178	5,263	40,441

Since the census of 1880 was taken, three new counties have been created by legislative enactments. The County of Cochise, from Pima County; the County of Graham, from Pima and Apache; and the County of Gila, from Maricopa and Pinal.

*Including in the Territory, 1,630 Chinese, 2 Japanese, and 3,493 Indians and half-breeds, outside of reservations, distributed as follows: Apache County, 62 Chinese and 1,819 Indians and half-breeds. Maricopa County, 164 Chinese and 486 Indians and half-breeds. Mohave County, 15 Chinese and 286 Indians. Pima County, 1,153 Chinese, 2 Japanese, and 166 Indians and half-breeds. Pinal County, 64 Chinese and 28 Indians. Yavapai County, 140 Chinese and 54 Indians. Yuma County, 32 Chinese and 654 Indians and half-breeds.

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

FEDERAL AND TERRITORIAL OFFICERS.

EXECUTIVE DEPARTMENT.

Name of Incumbent.	Office.	Residence.
John C. Fremont	Governor	Prescott.
John J. Gosper	Secretary	"
E. P. Clark	Auditor	"
Thomas J. Butler	Treasurer	"
M. H. Sherman	Sup't Public In-struction.	"

DELEGATE TO CONGRESS.

Name of Incumbent.	Office.	Residence.
Granville H. Oury	Florence.

SUPREME COURT.

Sessions held at Prescott—Second Monday in January.

Name of Incumbent.	Office.	Residence.
C. G. W. French	Chief Justice	Prescott.
W. H. Stilwell	Associate Justice	Tucson.
De Forest Porter	Associate Justice	Phœnix.
William Wilkerson	Clerk Supreme Court..	Prescott.

DISTRICT COURT—FIRST DISTRICT.

W. H. Stilwell, Judge.—Comprises the Counties of Pima, Pinal, Cachise, and Graham. Sessions held at Tucson, second Monday in March and second Monday in September. At Florence, second Monday in April and second Monday in October. At Tombstone, second Monday in May and second Monday in November. At Safford, at will of the Judge.

F. IRVINE & CO., Phœnix, A. T., AGRICULTURAL IMPLEMENTS.

DISTRICT COURT—SECOND DISTRICT.

De Forest Porter, Judge.—Comprises the Counties of Yuma, Maricopa, and Gila. Sessions held at Yuma, second Monday in March and fourth Monday in November. At Phoenix, first Monday in April and second Monday in October. At Globe, second Monday in May and second Monday in September.

DISTRICT COURT—THIRD DISTRICT.

C. G. W. French, Judge.—Comprises the Counties of Mohave, Yavapai, and Apache. Sessions held at Mineral Park, first Monday in April and first Monday in September. At Prescott, first Monday in June and first Monday in November. At St. John, first Monday in July.

FEDERAL OFFICERS.

Name of Incumbent.	Office.	Residence.
E. B. Pomroy.....	U. S. District Attorney.	Tucson.
C. P. Dake.	U. S. Marshal.....	Prescott.
John Wasson.....	Surveyor-General.....	Tucson.
C. H. Lord.....	Deposit'y P'blic Moneys	Tucson.
Henry Cousins.....	Register Land Office...	Tucson.
C. E. Dailey.....	Receiver Land Office...	Tucson.
W. N. Kelly.....	Register Land Office...	Prescott.
George Lount.....	Receiver Land Office...	Prescott.
Thomas Cordis.....	Collector Internal Rev..	Tucson.
J. A. Park.....	Dep'y Coll. Intern'l Rev.	Prescott.
G. W. Mauk.....	Dep'y Coll. Intern'l Rev.	Tucson.
R. J. Butler.....	Dep'y Coll. Intern'l Rev.	Tucson.
E. O. McClure.....	Dep'y Coll. Customs....	Charleston.
W. F. Scott.....	Dep'y Coll. Customs....	Tucson.
S. M. Ballesteros.....	Inspector Customs.....	Charleston.
A. J. Keen.....	Inspector Customs.....	Tucson.
J. C. Tiffany.....	Indian Agent.....	S. C'los Res.
Jonathan Biggs.....	Indian Agent.....	Col'o Res.
R. G. Wheeler.....	Indian Agent.....	Pima Res.

TERRITORIAL LEGISLATURE.

Sessions held biennially. Terms of members expire December 31st, 1882.

Council.—Murat Masterson, (President) Prescott; J. W. Anderson, Pinal; A. C. Baker, R. S. Thomas, Phoenix; Solomon Barth,

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

St. John; A. Cornwall, Stockton; B. A. Fickas, W. R. Meade, H. G. Rollins, Tombstone; B. H. Hereford, George H. Stevens, Tucson; J. W. Dorrington, Yuma.

House of Representatives.—J. F. Knapp, (Speaker) G. W. Norton, Yuma; Jerome Barton, G. R. York, Clifton; Donald Robb, Globe; P. J. Bolan, J. R. McCormack, N. Sharp, Phoenix; A. J. Doran, Pinal; George E. Brown, R. B. Steadman, Lewis Wollenberg, Prescott; J. R. Rogers, Safford; David Southwick, Stockton; Thomas Dunbar, M. R. Lurty, John McCafferty, H. M. Woods, Tombstone; E. B. Gifford, John Haynes, John Roman, W. G. Samaniego, E. H. Smith, M. S. Snyder, Tucson.

BOARD OF PRISON COMMISSIONERS.

W. M. Buffum, Prescott; John Haynes, Tucson; J. F. Knapp, Yuma.

BOARD OF FISH COMMISSIONERS.

John J. Gosper, Prescott; Richard Rule, Tombstone; J. H. Taggart, Yuma.

COMMISSIONER FOR THE COLLECTION OF MINERAL, AGRICULTURAL, AND PASTORAL STATISTICS.

Patrick Hamilton, Prescott.

TERRITORIAL GEOLOGIST.

(Not yet appointed.)

SILVER KING AND GLOBE

Express and Saddle Train.

ROBERT STEAD, PROPRIETOR.

Connecting at Silver King with the Coaches of the Arizona Stage Company.

This is the shortest and most comfortable route from the Southern Pacific Railroad to Globe. Particular attention given to the comfort of passengers.

FARE, \$5.00.

EXPRESS MATTER CARRIED AT REASONABLE RATES.

CHIRARDELLI'S CHOCOLATE The Best.

E. IRVINE & CO., Phoenix, A. T., FURNITURE, CARPETS AND WALL PAPER.

ARIZONA STAGE COMPANY.

WM. H. SUTHERLAND,
SUPERINTENDENT.

JOHN C. LOSS,
AGENT.

Run a Line of Coaches from

☞ CASA GRANDE ☞

S. P. R. R.

VIA FLORENCE AND RIVERSIDE, TO

☞ GLOBE CITY ☞

Carrying U. S. Mail and Wells, Fargo & Co's Express.

Also, run a Daily Line of Concord Coaches from

FLORENCE,

VIA PINAL, TO

SILVER KING,

Carrying U. S. Mail and Wells, Fargo & Co's Express.

WM. H. SUTHERLAND,
Superintendent.

ARIZONA

Business Directory and Gazetteer.

Agua Caliente,

Maricopa Co, 80 miles s w of Phœnix, near the Yuma Co line. The hot springs in this locality are quite a resort for invalids, the water and climate being very favorable for certain diseases.

Near David, springs prop'r

Agua Fria,

Maricopa Co, 20 miles n w of Phœnix.

Calderwood M H, station kep'r

Agua Fria Valley P O,

Yavapai Co, 15 miles n e of Prescott

Marrs John, justice of the peace

Alamo Station,

Maricopa Co, 15 miles s of Phœnix.

Viall Ransom, M station keep'r

Alexandra P O,

Yavapai Co, 30 miles s of Prescott, is located in the midst of an excellent mineral section, its support being mainly de-

pendent upon trade with the miners in the vicinity. It is connected with Prescott by stage.

Anders J H, gen'l merchandise

Anderson John, justice of peace

Barnum F C, groceries and liquor saloon

Buffum W M, general mdse

Campbell —, liquor saloon

Curtis Cyrus, liquor saloon

Donlan Peter, hotel

Hines Frederick, butcher

Minges Bros, brew'y and saloon

Rice Charles, notary public

American Ranch,

Yavapai Co, 12 miles n of Prescott, on the road to Mineral Park

Lee J H, stage station and liquor saloon

Antelope Creek Station,

Yavapai Co, 45 miles s of Prescott on the road to Phœnix

Martin Rosa Mrs, groceries, liquors, dry goods, etc

Antelope Station,

Yavapai Co

Bolin Otto, station keeper

E. IRVING & CO., PHOENIX, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

Antelope Valley P O,

Yavapai Co, 33 miles s of Prescott, on the road to Phoenix.

Hamilton James H, postmaster

Anvil Rock,

Yavapai Co, 68 miles n w of Prescott, on the road to Mineral Park.

Wilder P C, stage station

Apache Pass,

Cachise Co (See Fort Bowie)

Arivaca P O, *

Pima Co, 65 miles sw of Tucson, is a mining settlement in the Arivaca District. In this vicinity are a number of mines which were worked many years ago by the Spaniards and Mexicans, who erected smelters, and it is said extracted a large amount of bullion. At present quite a number of mines are being worked, some of which are yielding good ore. With the exception of a few months the climate of this section is all that could be desired, the days being warm and pleasant and the nights cool. Communication is maintained with Tucson and other points by a tri-weekly line of stages.

Arivaca Mill Co, W F Witherill superintendent

Bernard N W, postmaster

Bernard N W & Co, gen'l mdse
 Rollins Volney E, justice of the peace

Rouillier Camille, hotel

Aubrey P O,

Mohave Co, 220 miles above Yuma, on the north side of Bill Williams Fork, near its junction with the Colorado, is the landing-point for freight for the towns and mining districts in the southern portion of Mohave County. The steamers of the Colorado Steam Navigation Company maintain communication with Yuma.

Halleck Thomas, postmaster and general merchandise

Bed Rock,

Yavapai Co. (See Big Bug P O.)

Benson P O,

Cachise Co, 28 miles n of Tombstone, and on the line of the Southern Pacific Railroad, 46 miles east of Tucson, is the supply depot for a large section of country, including the towns of Tombstone, Contention City, Charleston, Bisbee, etc. In the San Pedro Valley, in which it is located, are good agricultural lands, that can be easily irrigated. Eight miles south is a settlement of Mormons, numbering about seventy-five, who have located lands in the valley, and are engaged in farming and freighting. From the town can be seen the peaks of the Santa Catarina, Whetstone, and Dragoon Mountains. Population about three hundred. The stages of the Arizona Mail and Stage Line leave daily on the arrival of

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

trains for Contention City and Tombstone, connecting at the latter place with stages for Charleston, Hereford, Bisbee, Camp Huachuca, Camp Evans, and Harshaw.

Arizona Mail and Stage Line, J D Kinnear & Co proprs

Barnett & Block, general merchandise and forwarding and commission merchants

Benson Hotel, D H Logan proprietor

Blinn L W & Co, lumber, doors, windows, and blinds

Brown Benjamin P, restaurant

Bryan George W, liquors and cigars

Clark & Mundell, general merchandise and forwarding and commission merchants

De la Ossa David, butcher

Forbes H B, shoemaker

Gardiner John J, blacksmith and wagon-maker

Germain & Montgomery, general merchandise, and forwarding and commission merchants

Hammond N W. flour, grain, etc, and forwarding and commission merchant

Hills & Carr, grain crushing mill

Hutton Edward, barber

Logan D H, proprietor Benson Hotel

Long Yee, (Chinese) restaurant

McComas Hiram, butcher

Montgomery James W, postmaster and agent Wells, Fargo & Co

Moore, Hunt & Co, liquor sal'n

Mundell I N, notary public and justice of the peace

Ohnesorgen & Co, livery and feed stable

Patterson George W, liquor saloon

Riley John, proprietor Railroad Saloon

Robinson J A & Co, groceries

Sisson, Wallace & Co, general merchandise

Smith, Waddell & Gibbs, blacksmiths and wagon-makers

Vucovich, Lukini & Co, restaurant and liquor saloon

Webb S M, forwarding and commission agent

Wells, Fargo & Co, James W Montgomery, agent

Wilt A A, liv'y and feed stable

Zeckendorf L & Co, general merchandise, and forwarding and commission merchants

Big Bug P O,

Yavapai Co, 25 miles s e of Prescott, is a mining camp located in a good mineral region.

Levy D & Co, general mdse

Miner S E, general merchandise, hotel and justice of the peace

Muncy William, station-keeper

Schoonmaker George B, agent Stokes Mining Co

Stedman A C, postmaster, dealer in mines, and agent Valley Forge Mining Co

Taft Marshall, mining engineer

Van Name William, saw-mill proprietor

Wakefield James A, millwright

Bisbee P O,

Cachise Co, 35 mile s of Tombstone, occupies a picturesque site in a deep cañon, known as Mule Pass, with steep, lofty mountains towering above it, the sides of which are covered with a growth of live oak and other timber. Al-

E. IRVINE & CO., PHOENIX, A. T., HARDWARE & TINWARE.

though only a little over a year old, the place has already assumed considerable importance, and the developments recently made in the noted Copper Queen Mine, proving the existence of large and rich bodies of ore in the immediate vicinity, assures its future prosperity. The climate of this section is delightful, there being no great extremes of heat or cold, the thermometer ranging from about the freezing point in winter to about 90° in summer. Communication is maintained with Tombstone via Hereford and Charleston by a tri-weekly line of stages.

- Allen E H & Co**, gen'l mdse
Buford & Everett, liquor saloon
Crosley Mrs, hotel
Daniels & McReynolds, liquor saloon
Duncan J F, justice of the peace
Durham —, physician
Furlow W H, cigars and tobacco
Graff & Brentley, liquor saloon
Hardy E T, general merchandise
Hoadley Milo, U. S. deputy mineral surveyor
Jones J J & Co, news depot, stationery, etc
Kelly J A, liquor saloon
Krocher John, bakery
Lazard & Jones, gen'l mdse
Martin M & Co, liquor saloon
Nichols, Lamb & Co, gen'l mdse
Page & Weldt, butchers
Savage W H, attorney at law and notary public
Siebe & Tribolet, brewery and saloon
Simas Manuel, hotel
Stillman H C, postmaster and agent **Wells, Fargo & Co**

- Stilwell Frank**, livery and feed stable
Tolles George, blacksmith
Walker Mrs, restaurant
Watson J B, hotel
Wells, Fargo & Co, H C Stillman agent

Bradshaw P O,

Yavapai Co, 35 miles s of Prescott, is in Tiger District, a mining locality of some note, where are many promising mines, some of which have at different times yielded considerable bullion. Stage communication is maintained with Prescott

- Austin E J**, livery and feed stable and postmaster
Bennitt E J & Co, gen'l mdse
Grove M E Mrs, hotel
Hammond George A, liq'r saloon
Raible John, brewery
Shekels N C & Co, gen'l mdse
Waddell George C, justice of the peace

Brigham City P O,

- Apache Co, 90 miles n w of St. John, is on the Little Colorado River near the line of Yavapai Co.
Adams J J, postmaster
Ballard William, blacksmith and wagon-maker
Sims S J, hotel

Bumble Bee P O,

- Yavapai Co, 45 miles s of Prescott.
Snyder Warren W, groceries and liquors, and postmaster

L. BASHFORD & CO., PRESCOTT, A. T., Headquarters of Mining Men.

Calabasas P O,

Pima Co, 60 miles s of Tucson, at the junction of the Santa Cruz and Sonoita Rivers, and about 15 miles north of the Sonora line. In this section are excellent agricultural and grazing lands. On the mountain slopes is a good supply of timber, including oak, ash, black walnut, sycamore, cottonwood, and juniper, and on the river bottoms a heavy growth of mesquite. The climate is pleasant, the thermometer ranging from about freezing point in the winter to about 100° above zero in the summer.

Campbell John, general mdse
Quiggle James M, groceries and liquors
White & Rodgers, general mdse

Camp Huachuca P O,

Cachise Co, 25 miles s w of Tombstone, is a U. S. military post situated in the Huachuca Mountains, a section noted for the grandeur of its scenery. Lofty peaks covered with a luxuriant growth of different kinds of timber tower to a height of 9,000 feet above sea level, while on every side may be seen romantic cañons and deep chasms, through which run sparkling rivulets of clear mountain water. These attractions, together with the salubrity of climate, and the great abundance of game, will make this locality a favorite resort for tourists and pleasure-seekers. Veins

of gold, silver, and copper have been found from the base of the mountains to the top of the highest peaks, many of which are being developed and yielding rich ore. Communication is maintained with Tombstone and Harshaw by a tri-weekly line of stages.

Burton C E, hotel

Camp Thomas P O,

Graham Co, 28 miles n w of Safford, is a U. S. military post situated on the north side of the Gila River. The climate of this section is delightful, the land fertile, and wood and water abundant. In the vicinity are hot springs, noted for their medicinal qualities. Tri-weekly communication is maintained by a stage with Wilcox, on the Southern Pacific R R., Fort Grant, San Carlos, and Globe.

Collins J B, hotel
Franklin A M & Co, general merchandise
Mann E, brewery, notary public and justice of the peace
Neese Thomas, general mdse
O'Neil J H & Co, liquors and cigars
Patterson F Mrs, hotel
Wood W V & Co, gen'l mdse

Camp Verde P O,

Or Fort Verde, Yavapai Co, 41 miles e of Prescott, is a U. S. military post garrisoned by four companies of troops.

Head C P & Co, general mdse
Head W S, postmaster

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

Casa Grande P O,

Pinal Co, 28 miles s w of Florence, is on the line of the S.P. R. R., 182 miles east of the Colorado River. It is the supply depot for Florence and several important mining localities including Pinal City, Silver King, and Globe. About 14 miles distant on the road to Florence are the old Casa Grande ruins, from which the place derives its name. These ruins are of great antiquity, and will well repay the curiosity-seeker for the trouble of a visit. Fifteen miles north, on the Gila River, is an Indian reservation, where are about 5,000 Pima and Maricopa Indians. Stages leave daily for Florence, connecting with lines for Pinal City, Silver King, Riverside, Mineral Creek, Globe, and McMillen.

- Arizona Stage Co,** W H Sutherland, proprietor
- Buckalew & Ochoa, gen'l mdse
- Fryer Jere,** prop'r Fryer's Hotel, postmaster and notary public
- Marshall Charles, liquor saloon
- Nutling R, blacksmith and wagon-maker
- Smith & Watzlavzick, general merchandise and forwarding merchants
- Wells, Fargo & Co,** A J Wright, agent
- Western Union Telegraph Co,** Arthur H Elliott agent

Castle Creek,

Yavapai Co, 50 miles s of Prescott, near Tip Top, is noted for a spring which dis-

charges about twenty inches of water, almost boiling hot.

Fitzhugh Thomas, hotel

Castle Dome Landing P O,

Yuma Co, 30 miles n of Yuma, on the east side of the Colorado River. About 16 miles distant are the Castle Dome mines, from which considerable ore is extracted and shipped to San Francisco. Stages leave tri-weekly for Yuma, connecting with trains of the Southern Pacific R. R.

Castle Dome Mining and Smelting Co, general merchandise
 Sumner S, blacksmith and wagon-maker

Catalina P O,

Pima Co, 40 miles n e of Tucson, is a mining camp in the Santa Catarina Mountains.

Young John T, general mdse

Cave Creek Station,

Maricopa Co. (See Overton P O.)

Cerbat P O,

Mohave Co, six miles s e of Mineral Park, is on the western slope of the Cerbat Mountains, a region abounding in gold, silver, and argenteriferous galena ledges, from some of which high assays are obtained. It was formerly the county seat.

Blakely W G, attorney-at-law
 Canty D J, liquor saloon and postmaster

Charleston P O,

Cachise Co, 10 miles w of Tombstone, occupies a pleasant site on the west bank of the San Pedro River. Looking towards the north can be seen the Whetstone Mountains, to the south the Sierra de San José range in Sonora, and in a westerly direction the lofty peaks of the Huachuclas. The town has a population of about three hundred, and contains several stores, some of which have an extensive trade with the inhabitants of the surrounding country. Here are located the works of the Tombstone and Charleston Ice Co, which have a capacity for manufacturing eight tons of ice per day. The water used is obtained from a spring on the premises of the company. On the opposite side of the river are situated the Gird and Corbin mills belonging to the Tombstone Mill and Mining Co, one run by water with fifteen stamps, and the other by steam with twenty stamps, where is crushed the rich ore taken from their mines at Tombstone. In the vicinity of the town is the famous Bronkow Mine, at which its discoverer and two subsequent locators of the ground met bloody deaths. The old adobe built by Bronkow is still standing, an object of curiosity to the passer-by. Considerable trade is carried on with Sonora by means of pack-trains, and it requires vigilance on the part of the Custom-House

officer stationed here to prevent smuggling. Communication is maintained with Tombstone, Bisbee, Camp Huachuca, Harshaw, and other points, by the stages of the Arizona Mail and Stage Line.

- Arizona Mail and Stage Line,** J D Kinnear & Co prop'rs
- Barton Jeremiah,** liquor saloon
- Blinn L W & Co,** lumber, doors, windows, and blinds
- Brooks G H & Co,** wines and liquors
- Burnell J C,** notary public and justice of the peace
- Charles Kee,** (Chinese) res'rant
- Clarke James,** liquor saloon
- Cramer David R,** butcher
- Field D C,** agent Wells, Fargo & Co and notary public
- Fleres Antonio,** proprietor Occidental hotel
- Gattrell A T,** postmaster
- Gird Richard,** president Tombstone and Charleston Ice Co
- Herrera F & Co,** gen'l mdse
- Holt D. H.,** justice of the peace
- Johnston Thomas B,** liq'r saloon
- Kraft Jacob,** blacksmith and wagonmaker
- Lenhart Jacob,** barber, and tobacco, cigars, etc
- Lindsay A E,** agent Western Union Telegraph Co
- Low Ket,** (Chinese) restaurant and bakery
- McAsh George,** livery and feed stable
- McClure Ernest O,** U S collector customs
- McDowell & Gattrell,** general merchandise
- McNair Walter,** tannery
- McNair & Miller,** carpenters and builders

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

Pearson Charles W, barber
 Rice George S, superintendent
 Boston and Arizona Smelting
 and Reduction Works
 Springer Albert, notary public
Springer & Hackes, genl mdse
Stewart Jacob W, liq'r saloon
Stewart & Murphy, livery and
 feed stable
**Tombstone & Charleston Ice
 Co**, Richard Gird, president,
 D C Field, secretary
Weber Charles, liquor saloon
Wells, Fargo & Co, D C Field,
 agent
Western Union Telegraph Co,
 A E Lindsay, agent
 Williams Henry F, drugs and
 medicines
Zeckendorf L & Co, gen'l mdse

Charming Dale,

Yavapai Co, 30 miles n of Pres-
 cott, on the road to Mineral
 Park
 Rogers S C, stage station

Chino P O,

Yavapai Co, 25 miles n of Pres-
 cott
 Delaney Frank, gen'l mdse
 Rees S C, justice of the peace

Chiricahua City,

Cachise Co
 Gray John W, civil engineer
 and assayer

Clifton P O,

Graham Co, 40 miles n e of Saf-
 ford, near the line of New
 Mexico, is in a section con-
 taining copper mines of ex-
 traordinary richness and ex-

tent, and will no doubt soon
 be a thriving business locality

Ashenfelter S M, att'y at law
 Crawford B H, notary public
Grant William, postmaster
 Joseph L B, physician
Pomeroy S W, hotel and jus-
 tice of the peace
 Smadbeck Lewis, notary public

Contention P O,

Cachise Co, 10 miles n of Tomb-
 stone, is a thriving town on
 the San Pedro River. In the
 immediate vicinity are the
 mills of the Contention, Grand
 Central and Head Center Min-
 ing Co's of Tombstone. The
 stages of the Arizona Mail
 and Stage Line afford daily
 communication with Tomb-
 stone and Benson

Ayler T W, butcher
 Barney J G, physician
 Cowan A C, postmaster, and
 agent Wells, Fargo & Co
Cowan A C & Bro, gen'l mdse
 Dunn John & Co, liquor saloon
 Gibbons John, blacksmith and
 wagon-maker
Goodman L & Co, gen'l mdse
 Guindania A, gen'l mdse
 Hibbard & Co, liquor saloon
 Jennison J E, restaurant
Laurrier A, propr Contention
 House
Marks S, general merchandise
 McDermott John, liquor saloon
 Montoya Romualdo, liq'r saloon
 Myers L W & Son, hotel and
 builders and contractors
Rigg E A, justice of the peace
 and notary public
 Smith J B, re-restaurant
Wells, Fargo & Co, A C Cowan
 agent

Cottonwood Spring,

Mohave Co, 40 miles e of Mineral Park.

White Hugh & Co, stage stat'n

Davidson's Spring,

Pima Co, 30 miles s e of Tucson.
Harshaw David, station

Dos Cabezas P O,

Cachise Co, 70 miles n e of Tombstone and 100 miles e of Tucson, is a thriving mining town of about 300 inhabitants. It is pleasantly situated on a high plateau about 5,000 feet above the level of the sea, in the midst of a section abounding in rich gold and silver-bearing ledges, which are being energetically developed. The scenery in the vicinity is very romantic and picturesque. Communication is maintained with the Southern Pacific Railroad by a tri-weekly line of stages to Willcox.

Ashby A S, boarding-house
Bassett & Scow, livery and feed stable

Bayers J A, liquor saloon
Boyer P A, blacksmith and wagon maker

Cooper W T, barber
Corey & Porter, general mdse
Eaton C B, assayer

Eldridge George H, corral and feed-yard

Hill Elmer, assayer and analytical chemist

Maley Bros, hotel
Rasinger M, carp'tr and builder
Resz Jacob, carp'tr and builder
Riggs J M, general mdse

Smith J A, freighter
Smith P W, general mdse
Washeim Charles, stationery, cigars, tobacco, etc, and agt Wells, Fargo & Co., and Dos Cabezas Stage Line
White & Wood, butchers
Wood & White, liquor saloon

Drew's Station,

Cachise Co, 15 miles n of Tombstone, on the road to Benson
Drew Harrison, liquor saloon and stage station

Dripping Spring,

Gila Co, 28 miles s of Globe.
Sutherland W H, stage station

Dudleyville P O,

Pinal Co
Harrington William D, post-master

Dunbar Station,

Cachise Co. (See Tres Alamos)

East Phoenix,

Maricopa Co, 3 miles e of Phoenix.

Ross Nathaniel, flour mill

Ehrenberg P O,

Yuma Co, 125 miles n of Yuma, on the e side of the Colorado River, was named in honor of the noted mineralogist, Herman Ehrenberg, who was one of the pioneer locators of mines in this vicinity. Some years since this was quite a thriving business locality, it being on the stage route from California to Prescott, Wick-

E. IRVINE & CO., PHOENIX, A. T., MEDICINES, PAINTS, OILS AND GLASS.

enburg. and Phenix, and also the landing place for freight destined for that section. The Colorado River is here crossed by means of a ferry which was established as early as 1862. Communication is maintained with Yuma by the steamers of the Col. Steam Navigation Co., and also by a tri-weekly line of stages which connect with the trains of the Southern Pacific R. R.

Frank Abraham, general mdse
Goldwater Henry, postmaster
Goodman Thomas J, groceries
and liquors, and ferry propr
Mallory Henry R, justice of the
peace

Emery City,

Cachise Co, 10 miles w of
Tombstone, and 3 miles above
Charleston, on the San Pedro
River.

Boston and Arizona Smelting
and Reduction Co, George S
Rice, general manager; C
W Goodale, superintendent

Empire,

Pima Co, 40 miles s e of Tucson
Knox Arthur A, general mdse

Eureka Spring,

Graham Co, 32 miles s w of
Safford.

Leach Charles, station keeper

Flagstaff P O,

Yavapai Co
Young Alfred D, postmaster

Florence P O,

The county seat of Pinal County is pleasantly situated on the south bank of the Gila, about midway in its course from its source to its junction with the Colorado. The valley here is one and a half miles in width and near twenty in length, of arable land, made exceedingly productive by irrigation, for which the abundant waters of the river and the rapid fall of the channel afford very favorable opportunities. This fertile valley in its season presents a most charming picture of rural peace and prosperity, in its fields of waving grain and growing orchards, contrasting vividly with the desolate, sunburnt mesas beyond the reach of the life-giving water. In the midst of this verdant oasis is fair Florence, the loveliest village of Arizona, and county seat of Pinal. The town is regularly laid out with broad streets, bordered by a most luxuriant growth of shade trees and freshened by rippling streams of water on either side of the roadway. The buildings are generally of adobe, or sun-dried brick, mostly of one-story, with very thick walls, making them very comfortable in the warm climate of this latitude. The population numbered 942 in the census of 1880, with several hundred additional in the valley surrounding the town, and is now estimated at 1,500. There are several stores carrying large stocks; two hotels—the

Lewis House, Charles G. Lewis proprietor, and the Silver King Hotel, Thomas H. McLellan proprietor, where can be obtained excellent accommodations; a brewery, saloons, two public schools, one for males and one for females, with 47 pupils of the first and 42 of the latter, a Catholic church, a fine court house, a newspaper, and numerous very pleasant private residences. Here is the center of trade for a very large area of country, including the valley and the neighboring mining districts, although the growing towns of Pinal, Silver King and Globe, with the construction of the railroad and the rush of mining enterprise have disturbed its *dolce far niente*, and drawn its trade away to a great extent. But so very pleasant is Florence as a place of residence, and so stable its resources of agriculture, commerce and mines, that its permanent prosperity is assured. The history dates back to 1866, when Charles J. Mason and several others located 160 acres each in the immediate vicinity of the present town site, constructed an irrigating ditch from the Gila and raised a crop of corn. The following year a large crop of barley was grown, finding ready sale and remunerative prices at the military post of Fort McDowell. This success stimulated settlement, and soon a town was laid out, with streets 100 feet wide, and crossing each other at right angles, north and south and east and

west. In 1868 Joseph Colliwood opened a store, which in time grew into large proportions. This was then an agricultural section, and the trade depended greatly upon the military operations in the Territory. In 1875 the Silver King mine was discovered, which stimulated business and advanced improvements. This new life continued until the mining districts built up towns in their midst, transacting their business at home, and a period of depression followed in Florence, but with enterprise coupled with the natural advantages of the situation this could not long continue. Being very nearly in the center of the Territory, or at least in the center of population and business, it aspires to be the capital. Astronomically, it is in latitude 33 deg. 2 min. 32 sec. north, and 111 deg. 17 min. 14 sec. west longitude. Altitude 1,550 feet above the sea. Rainfall for the year 1879, 13-42, and for the year 1880, 5-35 inches, the greatest fall being usually in the months of July and August. The temperature in 1880 ranged from 114 deg. maximum in June to 20 deg. the minimum in January. For a short period in summer the days are very warm, but the nights are cool, and generally throughout the year the weather is delightful and the locality healthy. The telegraph gives instant communication with the busy world, and excellent roads connect it with the surrounding towns.

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

At Casa Grande, 28 miles southwest, connection is made with the Southern Pacific Railroad which is the great artery of travel and commerce of Arizona. A line of stages also connect with the Southern Pacific Railroad at Picacho. Northerly run well-supplied lines of stages 27 miles to Pinal and 34 to Silver King, whence transfer is made to the saddle, crossing the Pinal range to Globe, 60 miles distant from Florence. Globe is also reached by stage via Riverside, where the Gila is crossed, thence northerly to the point of destination. Surrounding Florence are several mining districts which give promise of great wealth. The rapid fall of the river affords a fine water power which will undoubtedly be utilized in manufactures and milling. Three flouring mills have been erected a short distance below the town, two of which are in operation. With these advantages this pretty town bids fair to become one of the most prosperous of Arizona.

Arizona Stage Co, W H Sutherland proprietor, J C Loss agent

Arizona Weekly Enterprise, The Enterprise Co publishers, G B Taylor editor and business manager

Barraza Cristobal, barber

Brady Peter R, prop'r Gila Flour Mill and treasurer of Pinal Co

Brown George A, agent Wells, Fargo & Co

Buckalew & Ochoa, gen'l mdse

Collingwood Joseph & Co, gen'l mdse

Corrales Jesus, groceries and liquors

Cuen Francisco, butcher

Devine John J, recorder Pinal Co, and clerk District Court

Fitch Frank, attorney at law

Florence Brewery, Peter Will prop'r

Flores Agustin, liquor saloon

Gabriel J P, sheriff Pinal Co

Gila Mills, Peter R Brady prop'r

Girard Eduardo Rev, pastor Church of the Assumption

Gonzalez Gregorio N, harness and saddle maker

Guild William E, postmaster

Harvey William, physician

Holland Patrick, member Board of Supervisors Pinal Co

Lewis Charles G, prop'r Lewis House

Loss John C, agent Arizona Stage Co

McLellan Thomas H, proprietor Silver King Hotel

Michea J B, groceries, liquors, and fruits

Miller John, justice of the peace

Oury Granville H, attorney-at-law and Delegate to Congress

Owens & Weed, flour-mill

Palmer E W, liquors and cigars

Rapp Charles, liquor saloon

Ridgway Frank, observer and operator Signal Service U S A

Romero Nicolas, groceries

Schoshusen Henry, butcher and public administrator Pinal Co

Signal Service U S A, Frank Ridgway observer and operator

Silver King Hotel, Thomas H McLellan proprietor

Smith Horace L, atty-at-law

Smith & Watzlavzick, general merchandise and bakery

Summers H B, attorney-at-law and district attorney Pinal Co

Sutherland W H, prop'r Arizona Stage Co

Tantini G B, groceries

Taylor G B, editor and business manager Arizona Weekly Enterprise

United States Military Telegraph, Frank Ridgway operator

Walker J D, clerk Board of Supervisors and District Court Commissioner

Wells, Fargo & Co, George A Brown agent

Will Peter, proprietor Florence Brewery

Wilson John V, feed stable

Wratten George L, probate judge Pinal Co, attorney-at-law and notary public

Fort Apache P O,

Apache Co, 70 miles s w of St. John, is a U. S. military post situated on White Mountain River, 5,000 feet above sea level. The climate of this section is remarkably pleasant in summer, but cold and disagreeable during the winter months, severe snow storms being of common occurrence. Wood, water, and game of different kinds are abundant.

Barnes W C, observer Signal Service U S A

Lacy Henry E, post-trader and postmaster

Fort Bowie P O,

Cachise Co, 60 miles n e of Tombstone, is a U.S. military post in Apache Pass, Chiricahua Mountains; altitude, 4,871 feet. It was established

in 1862, principally to protect the overland stages and stations from the assaults of the Apaches.

Tully, Ochoa & Co, gen'l mdse

Fort Grant P O,

Graham Co, 25 miles s w of Safford, is a U S military post situated near Graham Peak, which rises to the height of 10,000 feet above the level of the sea. The altitude of the post is 4,833 feet. A tri-weekly line of stages maintain communication with the S. P. R.R. at Willcox, and also with Camp Thomas, San Carlos, and Globe.

Morgan H A, postmaster, notary public and agent Norton & Stewart Stage Line

Norton & Stewart, gen'l mdse

Fort Lowell,

Pima Co, seven miles e of Tucson, is a U. S. military post named in honor of Brigadier-General Lowell; altitude 2,530 feet.

Austin F L, general mdse

Hornblower W H, veterinary surgeon

Fort McDowell,

Maricopa Co, (see McDowell P O)

Fort Mohave,

Mohave Co, (see Mohave City P O)

Fort Verde,

Yavapai Co, (see Camp Verde P O)

Fort Whipple,

Yavapai Co, (see Whipple Barracks)

Galeyville P O,

Cachise Co, 60 miles n e of Tombstone, is a thriving mining town in the California district. It occupies a picturesque site in the midst of shady oaks, on a green sward mesa-land, in a cool corner of the Chiricahua Mountains, with the cold and clear waters of Turkey Creek coursing through its streets. In the vicinity are numerous mines, which are being energetically developed, and yielding high-grade ore. Among the number is the Texas, the owners of which have recently put up a smelter, and are now shipping bullion. The mountains on which the town is situated are noted for the grandeur of their scenery, and will no doubt soon become a favorite resort for tourists. A daily line of stages maintains communication with San Simon, a station on the S. P. R. R. 25 miles distant.

Avery Frank & Co, lumber, doors, windows and blinds
 Babcock N J, liquor saloon
 Barnhart & Reeves, liq'r saloon
 Broughton W W, attorney-at-law and notary public
 Burdick J F, boot and shoemaker
 Carr David P, attorney-at-law
 Cummings D W, livery and feed stable
 Davidson D E, watchmaker and jeweler

Ellingwood George, justice of the peace

Galey John H, president Galeyville Town-site Co.

Galeyville Hotel, S M Wessels proprietor

Galeyville Townsite Co, John H Galey, president; H B Maxson, secretary

Garcia H A, butcher

Greenwood A P, milk dairy

Harrington W C, blacksmith and wagonmaker

Herring & Spencer, house and sign painters

Higbee A C & Co, general merchandise

Holterman & Hollings, liquor saloon

Johnson Rosa Mrs, restaurant

Kattenhorn George, liq'r saloon

Kelly Thomas, blacksmith and wagonmaker

Kennett P, restaurant and liq'r saloon

Kimbell Charles J, assayer

Lewis J H, physician

Maxson H B, secretary Galeyville Town-site Co, and U S deputy mineral surveyor

McAllister M & Co, butchers

McCandless F & Co, general merchandise

McCandless Frank, notary public

McCarthy —, liquor saloon

McClelland & Pearson, liquor saloon

McConnachie J, liquor saloon

New Mexico and Arizona Stage Co, A C Rynerson & Co, agents

Pascholy & Ray, lumber, doors, windows and blinds

Rynerson A C & Co, general merchandise

Sessions C D, attorney-at-law and notary public

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

E. IRVINE & CO., PHOENIX, A. T., FURNITURE, CARPETS AND WALL PAPER.

Shotwell C S & Co, groceries, liquors, mining supplies, etc
Small B, proprietor Small's Hotel

Smith A E, groceries and provisions

Smith Seward, justice of the peace

Thomas Martha Miss, laundry

Tomlinson J H, liquor saloon

Vaughn Thomas, bakery

Waring & Co, baths

Waring S W & Co, liq'r saloon

Weidenhofer F, fruits and tobacco

Wessels S M, proprietor Galeyville Hotel

Gila Bend P O,

Maricopa Co, 60 miles s w of Phoenix, is a station on the line of the Southern Pacific R. R.

Carscadin Frederick, groceries
 Noonan Daniel, general merchandise and postmaster

Gillette P O,

Yavapai Co, 60 miles s e of Prescott, on the Agua Fria Creek. Here is located the mill of the Tip Top Silver Mining Co, which is constantly in operation, crushing the rich ore brought from the mine, nine miles distant. Stages from Phoenix and Prescott pass daily, and a branch line runs to Tip Top.

Anderson John, general merchandise and postmaster

Burfeind Martin, boarding-house and saloon

Curtis G W, boarding-house and saloon

Larsen James, blacksmith and wagon-maker

Trotter J, justice of the peace

Globe P O,

The county seat of Gila County, situated on the banks of Pinal Creek, near the eastern base of the Pinal Mountains, 60 miles, as the road goes, or 45 miles in an air-line, northeast of Florence, is an incorporated village, well built with numerous stone and brick buildings, and possessing a population of about 1,400. Settlers and prospectors closely followed the expulsion or pacification of the Indians, and in their mountain fastnesses, by their "tanks" and watering-places, and in their pleasant valleys they have discovered the vast deposits of ore or the fertile intervales, and there have made their homes and proceeded to develop the wealth so long concealed from the industries of the world. Thus were the rugged regions of Gila penetrated, the mines of Globe discovered, a district organized, and a village built. The first discoveries were made in 1875; the building of a town commenced shortly; then came that unvarying evidence of enterprise and enlightenment, the newspaper; and on the 4th of January, 1881, was held an election for mayor and all the officers necessary for the exercise of city government. Such advancement is only witnessed in the rich mining regions of the West. The growth of Globe has been rapid, and its

basis is also substantial. The district claims to be second to none in the Territory in the extent and wealth of its mines, upon which the prosperity of the town chiefly depends. Being the county seat, it possesses the resource of the county business, and a large trade with other mining and agricultural sections of Gila. Gold, silver, and copper are mined in the vicinity; and so rich, extensive, and varied are the mineral veins, that they constitute an inexhaustible resource. The mines are well developed, and their wealth proven. Mills, hoisting-works, and smelting furnaces give evidence of prosperous work, and furnish the life-current of commerce. These are scattered for miles along the creek and among the neighboring hills. The town is chiefly built along one main street, which is lined with substantial brick and frame structures, thus differing from many other towns of Arizona, where the adobe style of architecture prevails. The American and progressive character of the place is shown by its general aspect of neatness, its peaceful and law-abiding citizens, the number and stylish appearance of its large mercantile establishments, its two well-conducted newspapers, its church, schools, and social orders. In May, 1878, the pioneer paper, *The Silver Belt*, was established, and in September, 1880, the *Globe Chronicle*. A graceful church adorns the town, where so re-

cently was the unapproachable wilderness. The St. Paul's Methodist Episcopal Society was organized in February, 1880, and a church edifice costing \$3,500 was erected in October of the same year, and dedicated the 7th of November following. Services are regularly held, and a Sunday School has an average attendance of 52 scholars. An excellent public school is maintained, having been established in 1878, and has 58 pupils enrolled, with Miss Clara Bailey as teacher. A Kindergarten school was established in February, 1881, by Miss Stella A. Morehouse, a graduate of the Kindergarten Normal School of Columbus, Ohio, and the same lady maintains a select school for more advanced pupils. The secret and benevolent orders are well represented. The White Mountain Lodge of F. & A. M. was organized in August, 1880, working under jurisdiction of the Grand Lodge of New Mexico. The number of members is 24, and meetings are held monthly in the Masonic Hall. The Ancient Order of United Workmen have also organized a Lodge. A mining exchange is among the institutions maintained by the enterprising citizens of this busy town. Thus it will be seen that all the associations of an enlightened and refined people are maintained here among the mines and mountains of Arizona, where so recently prowled the untamable and merci-

less Apache. The Atlantic and Pacific Railroad is now entering the Territory in Apache County, approaching within about 100 miles of Globe, and opening new routes of inter-communication. The surrounding places contributory to Globe are McMillen, 18 miles north-east; Richmond Basin, 14 miles, in the same direction; the Tonto Basin, in the north-western part of the county; and the copper mines near "Bloody Tanks," six miles west: which, with innumerable mines on every side, constitute a resource of trade that assures the future prosperity of Globe.

Communication is maintained with the Southern Pacific Railroad by a tri-weekly line of stages via Riverside and Florence, and by a daily saddle-train to Silver King; thence by stage via Pinal and Florence to Casa Grande and Picacho. Also by a line every other day via San Carlos, Camp Thomas, and Fort Grant to Willcox.

Officers.—A. H. Morehead, Mayor; D. B. Lacey, A. Bailey, George Scott, and Joseph Redman, Councilmen; C. C. Meyers, Recorder and Assessor; G. S. Van Wagenen, Treasurer; George Ross, Marshal.

Abraham Jacob, barber and baths
Allen George A., justice of peace
Anderson Hans A., carpenter
Anderson James, liq'r saloon
Arizona Silver Belt, A H Hackney, editor and prop'r

Arizona Stage Co, W H Sutherland, proprietor; J J Vosburgh, agent
Bailey Alonzo, (Eaton & Bailey) agent Fireman's Fund Insurance Co
Benbrook & Burchett, prop's Oriental Saloon
Blake & Mendenhall, feed and sale stable
Bohse Gustav, proprietor Pinal Brewery Depot
Bostick Samuel, barber
Brooks Emory H., pastor M E Church
Brown Oscar M., district attorney Gila Co, and notary public
Buckalew & Ochoa, general merchandise
Burns Cornelius, machinist, blacksmith and horschoer
Cachot Emile, liquor saloon
Cahill Joseph R., house and sign painter
Calderon M., liquor saloon
Carey H M & Co., blacksmiths, horseshoers, wagon-makers
Central Hotel, Mrs M J Moore and Son proprietors
Chapel G A., groceries, produce, fruit, tobacco, cigars
Clark S C., editor Globe Chronicle
Cooke Belt, barber
Coover C M & Co., wholesale wines, liquors, and cigars
Dickinson & Adams, liq'r saloon
Dillabough S J., prop'r Palace Saloon
Duryea William H., groceries, clothing, tobacco, cigars, etc
Eaton & Bailey, general mdse and lumber
Ellis H & Co., general mdse
Fish Charles A., banker, and local treasurer Globe City Mill and Mining Co

Fiske Homer W, machinist and
 gunsmith
 Forman J H, assayer
 Frakes J W, butcher
 French W H, attorney-at-law
 Gardiner Benjamin C, prop'r
 Sycamore Hotel and saloon
 Globe and San Carlos Tele-
 graph Co, A H Hackney,
 president; A Bailey, sec'y
 Globe and Silver King Ex-
 press and Saddle Train,
 Robert Stead, proprietor
 Globe Chronicle, W H Glo-
 ver, publisher
 Globe Hotel, Nathan Meek, pro-
 prietor
 Globe Mining and Real Es-
 tate Agency, G A Swasey,
 proprietor
 Globe Mining Exchange, E
 F Kellner, president; A H
 Morehead, secretary; F B
 Knox, treasurer
 Glover W H, publisher and
 proprietor Globe "Chronicle"
 Graydon Alexander, black-
 smith and horseshoer
 Grime Cicero, photographer
 Guyago Manuel, shoemaker
 Hackney A H, editor and pub-
 lisher "Arizona Silver Belt"
 Hamilton James, propr Globe
 Saloon
 Hammond & Taylor, station-
 ery, newspapers, cigars, to-
 bacco, toys, confectionery, etc
 Harlow John J, clerk Board of
 Supervisors, Gila Co
 Harrison, Fisher & Co, flour,
 grain, feed and produce
 Hayse, Bissig & Pieper, pro-
 prietors Pinal Brewery
 Hazard & Kennedy, butchers
 Heineman & Soyer, drugs and
 medicines
 Henderson David, general mer-
 chandise

Hicks John C, attorney-at-law
 and notary public
 Hise John H, manager The
 Globe Mercantile Co, and
 agt California Powder Works
 Hitchcock & Co, drugs, medi-
 cines, cigars and tobacco
 Horse David, butcher
 Howe Rosa Mrs, proprietress
 Pascoe House
 Hyde H R, blacksmith
 Kellner E F, general merchan-
 dise and lumber, and prop'r
 Pinal Creek Saw Mills
 Kennedy E O, assayer
 Klein S & Co, general mer-
 chandise
 Lacey D B, treasurer Gila Co
 Love A E, liquor saloon
 Lowther W W, sheriff Gila Co
 Luedke J H, fruits, dairy pro-
 duce, candies, tobacco, cigars,
 etc
 Lundy J C, blacksmith and
 horseshoer
 Macdonell C A, physician and
 county coroner
 McKernan J B, feed and sale
 stable
 McNelly William T, proprietor
 Champion Billiard Hall
 Meek Nathan, proprietor Globe
 Hotel
 Meyers C C, city recorder and
 assessor
 Meyers & White, fruits and veg-
 etables
 Miller P B, recorder Gila Co.
 and notary public
 Moore M J Mrs & Son, pro-
 prietors Central Hotel
 Morehead A H, mayor Globe
 City
 Morehouse Stella A Miss, kin-
 dergarten school
 Myers J & Schein, dry goods,
 clothing, furnishing goods,
 hats, boots and shoes

Newell Milton, carriage and wagon-maker
Newton George A, watchmaker and jeweler
Norton & Stewart's Stage Line, J J Vosburgh agent
Olguen Alejandro, tailor
Orr J M Mrs, seamstress
Palmer & Rice, contractors and builders
Pascoe House, Mrs Rosa Howe proprietress
Pascoe J H, proprietor Pascoe's Restaurant
Pendleton A G, civil engineer, and county and U S deputy mineral surveyor
Pinal Brewery, Hayse, Bissig & Pieper proprietors
Pring E J, physician and county coroner
Redman Joseph, butcher and sausage-maker
Reynolds D A, livery and feed stable
Robb Donald, examiner and negotiator of mining properties
Robertson P C, livery and feed stable
Robinson Lewis, manufacturer tin, copper and sheet-iron ware, and dealer stoves, etc
Rocha Alvino, blacksmith and wagon-maker
Ross G & Co, livery, feed and sale stable
Ross George, city marshal
Schell R H, liv'ry and sale stable
Schulze Charles, shoemaker
Scott George, boarding-house
Shirpser David, auction and commission
Smith Franklin W, wagon-maker
Smith L K, attorney at law
Southerland A F, banker

Spence Willis E, postmaster
Stallo T C, public administrator Gila Co
Stead Robert, proprietor Globe and Silver King Express and Saddle Train
Stout, Fisk & Co, bankers and financial agents for Mack Morris and Golden Eagle Mining Cos
Sultan D & Bro, general merchandise
Swasey Gustavus A, probate judge Gila Co, attorney at law, notary public and commissioner of deeds
Sycamore Hotel, Benjamin C Gardiner proprietor
Thatcher C E, physician
The Globe Mercantile Co, general merchandise, (principal office 43 Reaper Block, Chicago)
Twweed W N, fast freight line
Van Slyck Julius W, attorney at law and notary public
Van Wagenen G S, general mdse and city treasurer
Vaughan & Coyle, feed stables
Vosburgh J J, agent Wells, Fargo & Co, Arizona Stage Co, and Norton & Stewart's stage line
Warren Abraham, shoemaker
Weissig Clara Mrs, lodgings
Wells, Fargo & Co, J J Vosburgh agent
Westmeyer Frederick W, general merchandise and Supervisor Gila Co
Wilson Alice Miss, dressmaker
Wisdom Thomas, wagon-maker
Wright M A Mrs, bakery and provisions
Yee Lee, Chinese goods.
Young Jesse, liquor saloon
Zimmerman William, carpenter and cabinet-maker

Granite Peak,

Cachise Co
Barlow L L, gen'l merchandise

Greaterville P O,

Pima Co, 55 miles s e of Tucson and 27 miles from Pantano, occupies a pleasant site in the Santa Rita Mountains, 5,000 feet above the level of the sea. West of the town, at a distance of three miles, is a peak known as Old Baldy, which rises to the height of 10,000 feet, being one of the highest in Arizona. In the vicinity are rich gold placers, and also gold, silver and copper ledges of great richness and extent, which are being rapidly developed. The climate of this section is unsurpassed, there being no very great extremes of heat or cold. The mountains and hills are covered with oak, pine, cedar and other kinds of timber, and abound in game, such as deer, antelope, turkey, duck, quail, rabbit, etc. The stages of the Pantano and Harshaw line pass within five miles of the town.

Candeleria John, butcher
Coyne P-J, justice of the peace and district recorder
Cubberly E B, physician
Elliott Ralph P, postmaster
Elliott & Downer, gen'l mdse
Thompson M. W. blacksmith
Williamson H, assayer
Young John, general merchandise and notary public.

Hackberry P O,

Mohave Co, 28 miles e of Mineral Park, is on the east-

ern slope of the Peacock Mountains, a region containing gold and silver ledges and an abundance of wood, water and game. Stages for Prescott, Mineral Park, Hardyville, and Fort Mohave pass daily.

Todd A, gen'l mdse, postmaster and agent Hugh White & Co's stage line

Hardyville P O,

Mohave Co, 34 miles s w of Mineral Park, on the east bank of the Colorado River, 312 miles above Yuma, is a landing point for the steamers of the Colorado Steam Navigation Co. Communication is maintained with Fort Mohave, Mineral Park, Hackberry and Prescott by a daily line of stages.

Hardy Wooster, general merchandise, postmaster and ferry proprietor

Harshaw P O,

Pima Co, 70 miles s e of Tucson and 50 miles s of Pantano, is a thriving and important town, pleasantly situated among hills covered with grass and trees, in one of the richest mining districts of Arizona. It is about 5,000 feet above the sea level and is supplied with good mountain water. A large trade is carried on with Sonora and adjacent camps. About three miles distant are the ruins of the smelting works of the old Mowry Mine. A collection of adobe ruins and a lofty chimney are all

that remain to denote the site of what was once the liveliest mining camp in Arizona. From several mines in the vicinity high-grade ore is being extracted; and one, the Hermosa, which has a 20-stamp mill in constant operation, is yielding from \$60,000 to \$75,000 per month. In the valleys and hills throughout this section are some excellent agricultural and grazing lands. Timber, including oak, walnut, ash and juniper are abundant. The growth of the town has been rapid, and although but little over a year old contains about 1,000 inhabitants. Stages leave daily for Pantano, connecting with the trains of the Southern Pacific R R, and tri-weekly for Tombstone, via Camp Evans, Camp Huachuca, and Charleston.

- Aaron —, liquor dealer
- Alison Bros, butchers
- Bauman & Thomas**, stationery etc, and bakery
- Biswanger C, shoemaker
- Bonnand J, restaurant
- Bonnand & Mague, liquor saloon,
- Brickwood J T**, liquor saloon,
- Brown T, bath house
- Butler Samuel, job wagon,
- Cassidy James, carpenter
- Darling James, butcher
- De Beauford H**, proprietor St Charles Hotel
- Denier —, drugs and medicines
- Drake W B**, stationery and news depot
- Drenen George, corral and feed yard
- Ford Charles, butcher
- Fuqua John W, justice of peace

- Goldberg & Son**, gen'l mdse
- Harlow C E & Co**, gen'l mdse
- Hayes R. T, physician
- Johnson Covington, superintendent Hermosa S. M. Co
- Kaighin William, corral and feed yard
- Kane William & Co**, oil and wine merchants
- Katz M D & Co**, gen'l mdse
- Kessing S, assayer
- Lee Bin, restaurant
- Lintz H T, lodgings
- Lloyd Trevor**, justice of peace
- Mattoon Mrs, milliner
- McDonald J, carpenter and builder
- McGregor A, superintendent Trench S M Co
- McNamee P J, liquor saloon
- Mills W F**, agent Wells, Fargo & Co, stage agent and money broker
- Morrison P, liquor saloon
- Moss & McDonald, blacksmiths
- Murphy & Everts, liquor saloon
- Nelson S P, brewery
- Nicolas & Cazabon restaurant
- Northrop, — liquor saloon
- O'Donnell A, deputy sheriff
- O'Donnell P M, liquor saloon
- O'Halloran Mrs, hotel
- Pense & Biggs, hardware
- Pixley R F, superintendent Hardshell S M Co
- Roger Bros**, general merchandise
- Rogers A, lumber
- Rusher John, livery stable
- Seabury & Ryan, restaurant
- Sims T, liquor saloon
- Small Nathaniel, livery stable
- Smith Charles, liquor saloon
- Smith T H, physician
- Snyder D**, general merchandise
- Tanner & Hayes, saw-mill
- Vanderlip & Fagan, butchers
- Volkert Julius, barber

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

Washbourn S H, liquor saloon
Wells, Fargo & Co, W F
 Mills agent
 Wilson —, liquor saloon

Hassayampa P O,

Yavapai Co.
 Spence Matilda E, Mrs. post-
 mistress

Hayden's Ferry,

Maricopa Co. (See Tempe)

Hereford,

Cachise Co, 20 miles s w of
 Tombstone, on the San Pedro
 River, promises to be a place
 of some importance in the
 near future. The Neptune
 Mining Company, who are
 working valuable claims in
 Warren District and the
 Huachuca mountains, have
 commenced the erection of
 smelting works on an exten-
 sive scale, and propose to con-
 struct a narrow-gauge railroad
 for the transportation of their
 ores to this point. An east-
 ern company who have lately
 purchased claims in Warren
 District also contemplate the
 erection of chemical works.
 This, together with its advan-
 tageous location, being on the
 main road from Charleston to
 Sonora, assures its prosperity.

Ackley Charles, justice of the
 peace
 Boyle Edward, hotel
 Ostermann J P, hotel and liquor
 saloon

Iron Springs,

Yavapai Co, 8 miles s of Pres-
 cott.

Atkinson R J, stage station

Junction,

Pima Co, 55 miles s of Tucson.
 Clark & Woods, station keepers

La Noria,

Pima Co. (See Luttrell)

Lees Ferry P O,

Yavapai Co.
 Johnson Warren M, postmaster

Little Giant P O,

Gila Co, 18 miles s of Globe.
 Anderson T, stage station
Lowe Samuel A, postmaster
 Tripp R B, physician

Luttrell P O,

Pima Co, 80 miles s e of Tucson
 near the line of Sonora, is in a
 rich mineral region, which is
 being rapidly developed. The
 climate of this section is in-
 viting, and in the surrounding
 hills and valleys wood, water,
 and nutritious grasses are
 abundant. The population of
 the town and immediate vicin-
 ity is about 500. The Holland
 Smelting works, which are
 constantly turning out a large
 amount of bullion, are located
 here. Communication is main-
 tained with the Southern Pa-
 cific R R by stage to Pantano.

Barclay R S, postmaster and
 justice of the peace
 Besner J B, blacksmith and
 wagonmaker
Deckert John, brewery
Goldberg H & Son, general
 merchandise

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

Luttrell J K, superintendent
Holland Mine
Luttrell J M, hotel
McBain & Seivers, general
merchandise
Wells, Fargo & Co, L C
McBain, agent

Maricopa P O,

Pinal Co, 45 miles e of Florence on the line of the Southern Pacific R R, 156 miles e of the Colorado River. This is the distributing point for a large amount of freight destined for Phoenix, Vulture Mine, Tip Top, Prescott, and other localities in Maricopa and Yavapai counties. Stages leave daily on the arrival of trains for Phoenix, connecting with two lines for Prescott, one (Gilmer, Salisbury & Co's) via Seymour, Vulture Mine, and Wickenburg, and Kerens & Griffiths, via Gillette, Tip Top, Bumble Bee, and Big Bug.

Batts & Bassett, proprietors
Maricopa Hotel
Brown & Wight, blacksmiths
and wagonmakers
Cottrell W F, groceries, dry
goods, clothing, boots, etc
Farrington R E, postmaster
Farrington R E & Co, general
merchandise and forwarding
and commission merchants
Freeman Frederick, feed yard
Gilmer, Salisbury & Co's
Stage Line, James Stewart,
superintendent
Lamb Patrick, feed yard
Southern Pacific Mail and
Stage Line, Kerens & Grif-
fith proprietors
United States Military Tele-

graph, Theodore T Moore
operator
Vandever Bros, general mer-
chandise, and forwarding and
commission merchants
Wells, Fargo & Co, Charles
Vandever agent
Western Union Telegraph Co,
W E Hall agent

Marysville,

Yavapai Co.
Chilson Bros, general mdse

Maxey,

Graham Co.
Collins J B, general mdse

McDowell P O,

Or Ft. McDowell, Maricopa Co,
30 miles n e of Phoenix, is a
U S military post, garrisoned
by two companies of troops.
It is located on the west bank
of the Rio Verde, about seven
miles above its junction with
Salt River, and connected
with Phoenix by stage.

Smith John Y T, general mer-
chandise
Wilcox N, postmaster

McMillen P O,

Gila Co, 18 miles n e of Globe,
is a mining town of some
note on the eastern slope of
the Apache Mountains. In
the vicinity are many rich
mines, among them the fam-
ous Stonewall Jackson, which
since its discovery in 1875
has yielded a large amount of
bullion. The climate in this
section cannot be surpassed,
and wood and water are

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

abundant. A stage line maintains daily communication with Globe.

Faucett E, sup't Washington Mining Co

Flournoy Joseph, superintendent Hannibal Mining Co

Hawkins Joseph, liquor saloon

Hoffman H C, liquor saloon

Jones John M, proprietor Merchants Hotel

Kellner E F & Co, general merchandise and lumber

Nichols J R, general mdse and notary public

Overton T T, justice of the peace

Rose Patrick, general mdse

Shanley Patrick, prop'r Miners Hotel

Smith J K, superintendent Mc-Millen S M Co

Strong George, general mdse

Mesaville P O,

Maricopa Co, 25 miles east of Phoenix

Dodson J N, postmaster

Millville,

Cachise Co, 10 miles west of Tombstone, on the San Pedro River, is the site of the Gird and Corbin mills belonging to the Tombstone M & M Co

Mineral Park P O,

The county seat of Mohave Co, is situated on the western slope of the Cerbat Mountains, 34 miles n e of Hardyville, a landing on the Colorado River. The mountains in the vicinity abound in ledges of gold, silver and argentiferous galena, from

many of which ore of a high grade has been obtained, and considerable bullion extracted. The completion of the Thirty-fifth Parallel Railroad to the Colorado River will, no doubt, give a great impetus to mining in this section, and Mineral Park may, in the near future, be a place of some note. The springs in the neighborhood are strongly impregnated with minerals, and the water so bitter as to be unfit for use; but to counterbalance this, the climate is delightful, there being no great extremes of heat or cold. Communication is maintained with Prescott, Hackberry, Hardyville, and Fort Mohave by a daily line of stages.

Atchison Charles, probate judge Mohave Co

Bartlett L, attorney at law

Breon & Spear, general mdse

Bucksbaum H, clerk Board of Supervisors

Burdeck E L, physician

Curtis J S, mining engineer and U S deputy mineral surveyor

Cuzino C, restaurant

Davis & Stephenson, attorneys at law

Fehr William, shoemaker

Hamilton Samuel, attorney at law

Hughes John, blacksmith

Hyde James J, druggist and justice of the peace

Krider Bros, general mdse, restaurant, and agent Hugh

White & Co's Stage Line

Krider W N, postmaster

Langley W A, treasurer Mohave Co and assayer

Lawson Charles B, butcher

Mackenzie John K, recorder
Mohave Co

Potts John C, sheriff Mohave Co

Stephenson J W, district attorney Mohave Co and notary public

White Henry, liquor saloon

Wright Caldwell, clerk District Court

Wright & Bucksbaum, searchers of records

Mohave City P O,

Or Fort Mohave. Mohave Co, 40 miles s w of Mineral Park, on the Colorado River, is a U S military post, garrisoned by one company of troops. The summer season here is intensely hot, and the climate unhealthy, malarial diseases being quite prevalent. Stages leave daily for Hardyville, Mineral Park, Hackberry and Prescott

Breon Paul, postmaster

Breon & Spear, general mdse

Hoss J B, agent Hugh White & Co's Stage Line

Montezuma,

Pinal Co, 12 miles w of Florence

Austin & Dempsey, gen'l mdse

Moore's Station,

Maricopa Co, 40 miles n of Phoenix

Brown Bros, liquor saloon

Mountain Station,

Yavapai Co, 60 miles n w of Prescott, on the road to Mineral Park

Sherman & Barrett, saw-mill

White Hugh & Co, stage station

New River Station,

Maricopa Co, 35 miles n of Phoenix

Hall George, stage station

Norton's Landing,

Yuma Co, 52 miles n of Yuma, on the w bank of the Colorado River, is the landing point for freight destined for the mining camps in Silver District. Here are located the smelting works of the Red Cloud Mining Co

Bamber John, hotel

Stanley E A, general mdse and physician

Stanley John, liquor saloon

Thomas F F, superintendent Red Cloud Smelting Works

Nugget P O,

Or Richmond, Gila Co, 14 miles n e of Globe, is a mining camp situated in a hollow plateau near the summit of the Apache Mountains. In this basin are located the Mack Morris, Silver Nugget, Richmond, and other rich mines. The climate is delightful, the scenery grand, and wood and water abundant.

Drew B J, boarding house

Frazer John, gen'l mdse

Kellner E F & Co, general merchandise, lumber, and feed stable

Oro Blanco P O,

Pima Co, 75 miles s of Tucson, near the line of Sonora, is in a mining district of the same name containing rich gold and silver ledges, which are

E. IRVINE & CO., Phoenix, A. T., MEDICINES, PAINTS, OILS AND GLASS.

now being developed. In this vicinity are several mines worked by the Spaniards many years since, which are supposed to have yielded a large amount of bullion. Stages leave tri-weekly for Arivaca and Tucson.

Bartlett John, butcher
 Hoskins & Thatcher, genl mdse
 James William, livery stable
 Noon A H, physician
 Noon Owen, liquor saloon
Ross W J, postmaster
Ross W J & Co, genl mdse
 Thatcher Arthur, justice of the peace

Overton P O.

Maricopa Co, 30 miles north of Phoenix.
 Hall C L, station keeper
 Wood Jeriah, postmaster

Pacific City P O,

Yuma Co. (See Silent P O.)

Pajarito P O,

Pima Co, 75 miles s of Tucson, is situated on Agua Fria Creek, a tributary of the Santa Cruz River, about 7,000 feet above sea level. In the vicinity are several mines yielding good ore. On the hills are good grazing lands, and timber of various kinds.
Mc Arthur John M, general merchandise and postmaster

Palace Station,

Yavapai Co, 16 miles south of Prescott.
 Spencer A B, station keeper

Pantano P O,

Pima Co, 28 miles s e of Tucson, is a station on the Southern Pacific R R, and the distributing point for freight destined for Harshaw, Washington Camp, and other mining towns in the southern portion of Pima County. Stages leave daily for Empire, Harshaw and Washington Camp.
 Tully, Ochoa & Co, gen'l mdse
 Wakefield Bros, gen'l mdse
 Wakefield L A, postmaster
Wells, Fargo & Co, George S Safford agent
 Wolfolk George T, hotel

Parker P O,

Yuma Co. 200 miles north of Yuma by the river route, is the headquarters of the U S Indian agent in charge of the Colorado River Reservation.
Biggs Jonathan, U S Indian agent
Woods J F, postmaster

Pelton,

Pima Co, 45 miles n e Tucson, Cohn W E, gen'l mdse
 Zeckendorf William & Co, general merchandise

Phoenix P O,

Maricopa Co, county seat, and incorporated city, 124 miles s e of Prescott, and 28 miles n of Maricopa, on the Southern Pacific Railroad, is pleasantly situated in the midst of a fine agricultural section, and surrounded by numerous rich mining districts. The Salt River flows past the city,

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

furnishing water for irrigating the fertile valley, and supplying the life-giving element to the gardens and shade-trees of the streets. This is one of the most important streams of the Territory, not from its size, but from the large extent of arable soil it flows past, and which may be irrigated by its waters. Having a considerable fall, the waters may, in its upper course, be utilized for propelling mining and milling machinery, and in its lower course led long distances from its channel to the fields of the husbandman. The valley, in the midst of which is this lovely city, is 60 miles in length by from 10 to 20 miles in width, gently sloping to the river from each side, and sloping also toward the south-west with the fall of the stream, making it exceedingly favorable for artificial irrigation. In such a naturally-favored region, a pleasant and prosperous city was sure to spring. The settlement dates with the expulsion of the Apache marauders who were driven from this region by the combined efforts of the military and the Pima and Maricopa Indians. The town was laid out in 1870, on a liberal and comprehensive plan, with streets crossing each other at right angles, in accordance with the cardinal points of the compass. Six of the principal streets are 100 feet in width; the others 80 feet wide, with alleys of 20 to 25 feet in width. Bordering the

streets are sidewalks 16 feet wide, and on the others the walks are 12 feet wide. Those streets running north and south generally bear some Indian name, while those running east and west are named after the Presidents of the United States. There are two public squares or plazas, each 300 feet square. It is in latitude 33 deg 18 min, and 112 deg 0 min 15 sec west longitude. The altitude is 1,800 feet above the sea. Rain-fall in 1879 was 6.25 inches, and in 1880, 6.82 inches, distributed through the year as follows: Jan, 1.16; Feb, 0.38; March, 0.26; April, 0.15; May, 0.0; June, 0.49; July, 1.18; Aug, 0.72; Sept, 0.67; Oct, 0.20; Nov, 0.0; Dec, 1.61. The temperature was at the highest June 17th, 111 deg; and lowest, Nov 18th, 24 deg. The mean temperature was 68.9 deg. Slight frosts only are felt; the orange, grape, pomegranite, and all semi-tropical fruits and plants growing to perfection. The population, as given by the census in 1880, was 1,800, but is now estimated at 2,400, and increasing with the rapid advance of Arizona. The town is well built, though mostly of adobe; there being several handsome private residences and stores, and public buildings of commodious and substantial appearance. The streets are lined by a luxuriant growth of shade-trees, kept in a flourishing condition by streams of water flow-

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

ing along their roots from the irrigating ditches, which also water the plazas and gardens, giving a refreshing and inviting appearance to the town, and its pleasant homes. The stores contain large stocks of merchandise and fancy wares, and carry on a profitable trade, made secure by the substantial resources of the surrounding country. A first-class hotel, the Bank Exchange, kept by Mr. E. Ganz, and also the Phoenix Hotel, provide excellent accommodations for the traveling public. A large flouring-mill, run by the waters of Salt River, capable of producing 25,000 pounds of the best quality of flour per day, furnishes a market for grain, and supplies much of the flour used in Arizona. This creates considerable business for the town, and is an enterprise worthy of emulation. This mill has four sets of French burr millstones, driven by a thirty and a half inch Leffel turbine water-wheel; placed under a twenty-five foot fall. All the machinery necessary for a first-class mill is driven by this power. The condition of society is well illustrated by the schools, churches, and numerous social orders. Phoenix justly takes pride in its fine school-house, this being, as the cause deserves, the most conspicuous public building in the city. It is a handsome brick building, two stories high, with belfry and flag-staff, 60 feet front by 40 in depth, with an entry 40 feet

front by 12 in depth, with grounds 300 feet square. The ceilings are 14 feet high. In it are rooms for the primary, grammar, and high schools, which have 207 pupils enrolled—103 boys and 104 girls. A library is maintained by the Maricopa Library Association, organized in 1877, having a library of two hundred and twenty-three volumes. In 1878 the Presbyterians held services, and on June 15th, 1879, the Church was organized. A chapel has been erected, where services are held, and a Sunday School, having five teachers and 70 scholars. It is under the pastorate of Rev. William Meyer. The Methodist Church organized in 1880. The society has a brick edifice costing about \$4,000, and with a seating capacity of 250. A Sunday School is connected with the church, having seven teachers and 85 scholars. Rev. G. F. Bovard is the pastor. The Methodist Episcopal Church South, with Rev. J. L. Hedgepath, pastor, also holds services. A Catholic Church has just been erected, under the charge of Right Rev. J. B. Salpointe, Bishop of Arizona. It was dedicated to public worship June 24th, 1881. The building is of imposing appearance, of Gothic architecture, 125 feet in length and 75 feet in width, with a massive tower, surmounted by a lofty spire. Of social orders the Independent Order of Good Templars have the precedence of date. The Garden

Valley Lodge No. 1, I. O. G. T. was organized May 21st, 1877, and has 60 members. Arizona Chapter No. 1 Royal Arch Masons, was organized March 23rd, 1880, numbering 23 members. Arizona Lodge No. 257, F. and A. M., organized August 9th, 1879, and has 35 members. Phoenix Lodge No. 2, I. O. O. F., organized July 27th, 1879, has 43 members. Arizona Rebeckah Degree Lodge No. 1, organized 1880, has 20 members. Maricopa Tribe No. 1, Improved Order of Red Men, organized January 1st, 1880, has 37 members. Phoenix Lodge No. 2, Knights of Pythias, organized September 25th, 1880, has 23 members. Three newspapers are published, the *Arizona Gazette* and the *Phoenix Herald*, daily and weekly, and the *La Guardia*, a Spanish paper, weekly, all devoted to the advocacy of the resources of their section. Rapid communication is maintained with the outside world by means of the United States Military Telegraph, under the superintendence of Mr. S. E. Patton. A company has recently been organized to construct a railroad from Maricopa, on the Southern Pacific, to Phoenix, with the intention of continuing it northerly via Prescott to the Atlantic and Pacific. Stages leave twice a day for Maricopa, and daily for Prescott, by two different routes; one via Seymour and Wickensburg, connecting at the former place with a stage to Vul-

ture; the other known as the Black Cañon route, via Gillette, Bumble Bee, and Big Bug, connecting at Gillette with a stage to Tip Top. Another line maintains communication with Fort McDowell.

Officers.—John T. Alsap, Mayor; T. W. Brown, John H. Burger, T. W. Smith, and J. M. Cotton, Councilmen; M. W. Kales, Treasurer; Henry Garfias, Marshal.

Alsap John T, attorney-at-law and Mayor of Phoenix, Court House

Arcade Brewery, Luke & Thalheimer proprietors, Washington

Arizona Gazette, Charles H McNeil & Co., publishers, Washington

Arizona Methodist, Rev G H Adams editor, Gosper & McClintock publishers, Centre

Asher M & Bro, general mdse, Washington

Baker Albert C, attorney-at-law, Washington

Balsz & Kelly, butchers, Washington

Bank Exchange Hotel, Emil Ganz proprietor, Washington

Bank Exchange Restaurant, P W Butler prop'r, Washington

Bank of Arizona Agency, M W Kales cashier, Washington

Barruth Simon, tailoring and dressmaking, Washington

Bicknell P C, carriage, house, and sign painter, Washington

Blankenship J W, deputy sheriff, Court House

Bolan P J, attorney-at-law, Washington

Bovard G F Rev, pastor Methodist Episcopal Church

Brix Peter, soda water manufactory, Montezuma
Brown George E, groceries, provisions, stationery, notions tobacco, cigars, etc, Washington
Brown Thomas W, liquor saloon, Washington
Brown & Cole, liquor and billiard saloon, Washington
 Bryan J M, blacksmith and wagonmaker, and feed yard
 Burge J C, photographer, Montezuma
 Burger John H, blacksmith and wagonmaker, and feed and hay yard, Montezuma
Butler Pierce W, prop'r Bank Exchange Restaurant, Washington
 Byers James S, proprietor Plaza Boarding House, Jefferson
 Campbell Joseph, attorney-at-law, Washington
Carey William R, manufact'r furniture, bedding, upholstery etc, and undertaker, Washington
Coats George F, green and dried fruits, confectionery, cigars, tobacco, etc, Washington
Coeke Charles, liquor saloon, Washington
Conyers B L, physician, Washington
 Court House, Washington
Cox Frank, attorney-at-law and notary public, Washington
Creamer & Abbott, agricultural implements, hardware and wagons, Montezuma and Jefferson
 Daneri Stefano, liquor saloon, Monroe
 Dupish Edward, barber and baths, Washington

Ellis Gus & Co., general merchandise, Washington
 Everett William J, house and sign painter
 Farrington J B, physician
Ganz Emil, proprietor Bank Exchange Hotel, Washington
 Garfias Henry, city marshal
George John, treasurer Mari-copa Co, Court House
Gilmer, Salisbury & Co Stage Line, James Stewart superintendent, L Jilson agent, Washington
Goldman & Co, general merchandise, Washington
 Gonzalez R G, house and sign painter, Montezuma
Gosper & McClintock, publishers Phoenix Herald, Center
Greenhaw Thomas G, probate judge Maricopa Co, Court House
Gregory James M, lumber, doors, sashes, blinds, and builders' materials, Washington
 Haeffner & Garcia, liquor and billiard saloon, Washington
 Hamlin George, livery, feed and sale stable, Washington
 Hancock W A, attorney at law, and notary public, Wash'ton
 Harrison Charles M, barber, Washington
 Harrison Henrietta Mrs, dress-maker. Washington
 Hedgepath J L, pastor Methodist Episcopal Church South
 Heinson Jacob, bakery, Washington
 Henshaw Albert L, feed and sale stable
Herrick & Lutgerding, blacksmith and horseshoers, Jefferson
Hooper Wm B & Co, oil and wine merchants, Jefferson

Hughes J H, notary public
Irvine E & Co, gen'l mdse, and agents California Powder Co, Washington
 Jackson M M, justice of the peace
 Jackson M M & Son, carpenters and builders
 Jackson & Reed, cabinet-makers
Jilson Lyman, agent Wells, Fargo & Co, and Gilmer, Salisbury & Co's Stage Line, Washington
Jones Charles L, harness and saddle-maker, Washington
Kales M W, cashier Bank of Arizona, insurance agent, and city treasurer, Washington
 Kaucher Gustav, jeweler, Monroe
 Kelly G H, leader Phoenix Brass Band, Washington
Kirkland Richard F, recorder Maricopa Co, and agent Southern Pacific Mail and Stage Line, Washington
Lemon A D, district attorney Maricopa Co, Court House
 Lemon & McCabe, attorneys at law, Washington
 Long R L, abstract office, Washington
 Loosely J R, liquor saloon, Washington
 Loring George E, stationery, newspapers, cigars, tobacco, etc, Washington
 Lount Bros, ice manufacturers
 Lowell E T, carpenter and plasterer
Luhrs George H N, wagon-maker, Jefferson
Luke John, liq'r saloon Washington
Luke & Thalheimer, prop'rs Arcade Brewery and liquor saloon, Washington

McCabe J D, attorney at law Washington
 McNeil A J, saddlery and harness, Montezuma
McNeil Charles H & Co, publishers Arizona Gazette, Washington
 McNulty W F, insurance agent and notary public, Washington
 Meyer William Rev, pastor Presbyterian Church, Monroe
Monihon James D, livery, feed and sale stable, Washington
Morgan Henry, general mdse, Washington
 Morgnett Bros, butchers, Washington
Mowry George E, postmaster, Washington
 O'Neill William O, reporter 2nd Judicial District Court, Washington
 Olsson Tobias, boot and shoemaker, Washington
Orme L H, sheriff Maricopa Co, Court House
Patton S E, observer and operator Signal Service U S A, Center
 Pesqueira M, stoves and tinware, Maricopa
Phoenix Brass Band, G H Kelly, leader, Washington
Phoenix Flour Mill, John Y T Smith prop'r, Montezuma
Phoenix Herald, Gosper & McClintock, publishers, Center
Phoenix Hotel, Mrs Rosa Salari, proprietress, Washington
 Pickens N A Mrs, homeopathic physician, Washington
Porter De Forest, associate justice Supreme Court, and judge Second Judicial Dist.
 Reed Joseph D, coroner and public administrator Maricopa Co

Richards James, justice of the peace, Center

Righetti James P, groceries, liquors and dry goods, Monroe

Roberts & Ryder, contractors, builders, and dealers lumber, doors, sash, blinds, builders' materials, etc., Jefferson

Rosenthal Nathan, clothing, boots, shoes, dry goods, hats, cigars, tobacco, etc, Washington

Ross Nathaniel, proprietor Salt River Mills, East Phoenix

Rosson R L, physician, Maricopa

Rothrock George H, justice of the peace, Washington

Rothrock & Catton, landscape and portrait photographers, Montezuma

Salari Rosa Mrs, proprietress Phoenix Hotel, Washington

Salari & Righetti, restaurant, Washington

Scherrer Carl, bakery, Washington

Shaw F A, clerk District Court, Court House

Sheets Oliver H P, physician, Washington

Sherman Thomas, liq'r saloon, Washington

Signal Service U S A, S E Patton observer and operator in charge, O W White, assistant operator, Centre

Slankard & Clarke, blacksmiths and wagon-makers, and feed-yard

Smith John Y T, prop'r Phoenix Flour Mill, Montezuma

Smith William T, liq'r saloon, Washington

Sou Yon & Co, Chinese goods

Southern Pacific Mail and Stage Line, Kerens & Grif-

fith proprs, R F Kirkland agent, Washington

St Louis Brewery, Michael Wurch propr, Washington

Stewart James, superintendent Gilmer, Salisbury & Co's Stage Line, Washington

Streeter W C, contractor mason work

Sturemburg William, barber and baths, Washington

Thibodo Oliver J, drugs and medicines, Washington

Thomson John W, druggist and apothecary, Maricopa

Trumper V, watchmaker and jeweler, Washington

Tweed & Hancock, attorneys-at-law, Washington

United States Military Telegraph, S E Patton operator, O W White, assistant operator, Centre

Wells, Fargo & Co, L Jilson agent, Washington

Wharton H H, fruit and confectionery, Washington

Wharton & McNulty, general merchandise, Washington

Wharton & Rosson, physicians, Maricopa

White O W, assistant operator Signal Service U S A, Centre

Wiley & Son, carpenters and builders, Montezuma

Wilkes William, attorney-at-law, Washington

Wing On Lung & Co, Chinese goods

Woolsey Hall, Washington

Wurch Michael, proprietor St Louis Brewery, Washington

Picacho P O,

Pinal Co, 25 miles s of Florence is a station on the line of the Southern Pacific R R, 201

miles e of Yuma. Stages leave on arrival of trains for Florence, connecting with lines for Pinal, Silver King and Globe.

Picket Post,

Pinal Co. (See Pinal P O)

Pima Agency,

Pinal Co, 30 miles w of Florence, is the residence of the U S Indian agent in charge of the Pima and Maricopa Reservation. It is situated near the Gila River, and surrounded by good agricultural lands, which are extensively cultivated by the Indians, who number about 5,000. When the seasons are favorable large crops of wheat are raised, and disposed of to the traders on the reservation. Barley, corn, and different kinds of vegetables are also raised to a considerable extent. Water for irrigating purposes is brought in ditches from the Gila River. A number of improvements have recently been made at the agency, including the erection of a new two-story adobe building for the use of the agent and his assistants. A school has been established for the education of the young Indians, and the spiritual welfare of all is attended to by a Presbyterian clergyman who preaches to them on the Sabbath. Everything about the agency is conducted in strict conformity to law, police being appointed from among the Pimas to preserve order.

Hayden Charles T, trading post
Townsend E B, U S Indian inspector and special Indian agent

Wheeler Rowell G, U S Indian agent

Pima Station,

Maricopa Co, 15 miles s of Phoenix.

Bennett & Jones, trading post

Pinal P O,

Pinal Co., 27 miles n e of Florence, the county seat, lies in the western foot-hills of the Pinal Mountains, on the banks of Queen Creek, where that pretty stream emerges from the rocky cañons of that rugged range. This is the principal town of Pioneer District, and is in the midst of a rich mineral-bearing region, there being some 2,000 mining locations in the district, including veins of gold, silver, copper, and iron. The point has been occupied a number of years, first as a military station during the period of operations against the hostile Apaches, when it was a picket post. With the discovery of the mines in the vicinity the site was found most favorable for milling ores and as a business centre, and in 1878 the village of Picket Post was begun, and in 1880 the name was changed to Pinal. Its growth has been quite rapid, the population now numbering fully 1,000, with all the comforts, improvements, and style that characterize a busy, enterpris-

E. IRVING & CO., PHOENIX, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

ing, and enlightened American town, including schools, churches, newspaper, secret and benevolent societies, hotels, stores, express, post and telegraph offices, saloons, etc. The business portion occupies both sides of a long, wide street, running east and west, which is being rapidly improved by the erection of substantial buildings. From the Silver King and other mines in the vicinity run a constant stream of great quartz-hauling teams to the mill in Pinal, and stages and freight-wagons ply with unceasing industry and excitement between the growing, lively city, the county seat, and the railroad. On the bank of Queen Creek is the twenty-stamp mill of the Silver King Mining Company, which, pounding away night and day, crushes sixty tons of ore daily, producing about \$100,000 monthly. The office of the company in Pinal is connected by telephone with the mine, and here can be seen one of the richest and most beautiful cabinets of mineral specimens in the world, collected from the ores of that remarkable mine. As in all progressive American communities, schools are among the first to receive attention. In 1879 the public school of Pinal was organized, and a school-house built. Now one teacher is employed, and 50 pupils attend; but another school-house is soon to be erected, with capacity to accommodate the increasing

number of children. The Methodists have a fine wooden church, costing about \$4,000, in which services are regularly held, and well attended. Lodges of the Odd-Fellows and Masonic orders have been established, and the Knights of Pythias are about to organize. The *Pinal Drill*, a weekly paper, is maintained, and furnishes the inhabitants the news from abroad. The business houses, hotels, etc., are generally substantial and handsome structures, some being of stone, an excellent quality of basalt being quarried in the vicinity, which is well adapted for the purpose. The Pinal Bank building is of this stone, and presents a fine appearance. Besides Pioneer are Summit and Mineral districts, contributory to this place; also the neighboring villages of Silver King and Queen City. These, with the many rich mines, the favorable location for residence and business, the salubrity of the climate, and other favorable conditions, justify the bright expectations of its citizens that Pinal is destined in a short time to become one of the leading cities of Arizona. The elevation being about 3,500 feet above the sea, tempers the summer weather to a delightful degree, and in winter brings it in the region of occasional snow.

Stages leave daily for Florence, there connecting with lines for Casa Grande and Picacho, on the Southern Pacific Railroad. Daily commu-

nication is also maintained with Globe by stage to Silver King, 8 miles; thence by saddle-train over the Pinal Mountains, 25 miles.

Adams Orson B, physician
Allen Thomas F, freighting
Bailey W L, butcher
Baker J D, assayer
Baker Gustav, proprietor U S Brewery and restaurant
Benson W H, justice of peace
Berthier Jules A, liq'r saloon
Binkley Bros, gen'l mdse
Bley William, carpenter and builder
Bluett William H, drugs, medicines, paints and oils
Brinkman Delia Mrs, stationery, fruits and vegetables.
Broadbeck —, stone mason and builder
Brooks Jay, gen'l mdse
Brown John, carpenter and builder
Brown P A, assayer
Caveness Matthew, freighting
Caveness & Co, blacksmiths, horse-shoers and wagonmakers.
Champion Josiah, lumber, doors, sashes and blinds, and agent Commercial Insurance Co, of California
Cox Gustavus, U S deputy mineral surveyor
Davis Hugh H, physician
Davis James W, attorney at law and notary public
Dodge M M, assayer
Doran I A, millwright
Ehlers E H, expres-man
Ellis, Aaron & Co, gen'l mdse
Elmore R P, agent Windsor Silver Mining Co
Gardner Hiram, barber
Goforth M L Mrs, millinery and dress making

Goldman & Co, gen'l mdse
Gomez Francisco, groceries and liquors
Graham P B, liquor saloon
Grand Hotel, George Reynolds proprietor
Hall, Hurley & Co, livery, feed and sale stables
Hall William A, proprietor Pinal hotel
Hilge & Co, bakery
Hoffman Ottokar, metallurgist
Silver King Mining Co
Hunt Jotham B, liquor and billiard saloon
Hunt's Hall, J B Hunt prop'r
Hutchinson William T, blacksmith and wagonmaker
Jensen Frederick, bowling alley and baths
Kennedy R R, deputy sheriff
Kimball S F, livery and feed stable
Lempker William H, barber
Ling Chung, Chinese goods
Loeffler & Fiehl, fruits and vegetables
Mason Aaron, superintendent Silver King Mining Co
Mayhew Jesse, livery, feed and and sale stable
McDowell J M, carpenter and builder
Merritt W H, assayer and U S deputy mineral surveyor
Miller George L, postmaster
Miller George L & Co, general merchandise
Murray H B, liquor saloon
Myers William, teacher dancing
Nicholas & Searle, butchers
Paine Lewis L, barber and baths
Palmer Charles, house and sign painter
Pinal County Bank, E W Hopkins president, Aaron Mason vice-president, C M Gilmore cashier

E. IRVINE & CO., Phoenix, A. T., HARDWARE & TINWARE.

Pinal Drill, J De Noon Reymert editor and publisher

Pinal Hotel, William A Hall proprietor

Reymert J De Noon, editor and publisher Pinal Drill, attorney at law and notary pub.

Reymert J D Jr, attorney at law and insurance agent

Reynolds George, propr Grand Hotel

Sarrick George H, liquor and billiard saloon

Schmidt Henry, shoemaker

Silver King Mining Co, Aaron Mason superintendent

Souva & Ruddy, restaurant

Stone W R, attorney at law and notary public

Suter Jacob, stoves, tin-ware and hardware

Thompson Anson N, physician and surgeon

United States Brewery, Gustav Becher propr

Venton Ascott, agent Wells, Fargo & Co

Vie E E, stone-mason

Warnke Ernest F, brewery

Washburn & Co, liq'r saloon

Wells, Fargo & Co, Ascott Venton agent

Whitlow Allen, freighter

Whitney C L, contractor

Wright D B, carpenter

Zubrod Niklaus, shoemaker

Pinal Ranch,

Pinal Co, 45 miles n e of Florence, on the trail from Silver King to Globe.

Irion Robert A, hotel and station

Pine Springs P O,

Yavapai Co.

Marshall Hugh, postmaster

Polhamus,

Mohave Co, 315 miles n of Yuma, on the e branch of the Colorado River.

Welcome L S, general mdse

Prescott P O,

Yavapai Co, capital of the Territory and county-seat, is pleasantly located in the valley of Granite Creek, surrounded by a grand amphitheater of hills, giving it the most picturesque and romantic site of any town in Arizona. Attracted by the loveliness of the locality, the fine climate, and the apparent resources, the officers of the Territory who had been sent hither by President Lincoln in 1863 to organize the territorial government, chose this as the seat of their future capital. A few weeks prior to the arrival of the party on Granite Creek, the Territorial organization had been effected at Navajo Springs, the first camping place reached within the limits of Arizona, on the journey from Santa Fé. The party consisted of John N. Goodwin, Governor, (John A. Gurley was the first appointed governor, but died before entering upon his duties) R. C. McCormick, Secretary; W. F. Turner, Chief Justice; W. T. Howell and J. A. Allyn, Associate Justices; Almon Gage, District Attorney; Levi Bashford, Surveyor-General; M. P. Duffield, Marshal; Charles D. Poston, Superintendent of Indian Affairs. In this love-

ly spot the town was located, and named in honor of the great historian, dating its earliest settlement in 1864. At that date the southern portion of the Territory, where the principal population dwelt, was in a state of turmoil, owing to the mixed character of the inhabitants, and the civil war then raging, and as a consequence, this secluded valley in the north was chosen for the seat of government. With the party came the printer, with his type and press, and soon the newspaper spread the fact to the world of the existence of the town, the beauty of the situation, and the grandeur of the resources of the surrounding country. Under the vigorous and able editorship of Marion, the *Arizona Miner* soon drew to the region a large population; and resources whose existence had scarcely been suspected were brought into notice and to development. Shortly after its settlement came the soldiers, and Camp Whipple—now called Whipple Barracks—was established one mile north, giving security to the people, stability to society, and adding much to the business and prosperity of the place. The city was laid out on a liberal scale, with broad streets crossing each other at right angles, and a large plaza of four acres in the center, with reservations for schools and public buildings. In August, 1872, a United States patent was obtained for the

site, and in January, 1873, it was incorporated under the general laws of the Territory. By the census of 1880 the population was 2,074. The altitude is 5,700 feet above the sea, giving it the rare and healthy atmosphere of a mountain region; warm, with cool nights in summer, and occasional falls of snow in winter. The latitude is 34 deg 29 min 6 sec; longitude 112 deg 30 min 30 sec. The rain-fall for year ending June 30th, 1879, was 11.31 inches. The temperature, by the records of 1878, was: July, 103 deg highest, and 48 deg lowest; Dec, 67 deg highest, and 4 deg lowest; Jan, 1879, 68 deg highest, and 4 deg lowest; June, 97 deg highest, and 39 deg lowest. The preceding figures are from the records of the Signal Service. Mail routes radiate in various directions, the principal one being a well-equipped stage line to Phoenix, 124 miles south-west; continuing thence to the Southern Pacific Railroad at Maricopa, a further distance of 28 miles. But this will all soon be changed by the construction of the Atlantic and Pacific Railroad, which will pass about 50 miles north. By the Legislature of 1881 a charter was granted for a railroad from Prescott to intersect that road; and the Arizona Central Railroad is contemplated, running to Phoenix, and to the Southern Pacific. These will make it a central point of trade, very convenient to the many rich

mining districts which now reach it by wagon and pack-mule. The city contains many substantial and elegant public buildings and businesshouses, and handsome private residences. The Court House, erected in 1878 at a cost of \$65,000, is a two-story brick, 52 feet square, and 43 feet high, surmounted by cupola, in which is a large clock. On the first floor are several commodious offices, occupied by the different county officials. On the second floor is an elegant court room, 45 feet square, well lighted and ventilated, for the use of the Supreme and District Courts, also jury rooms. In the basement is the county jail, containing a jailer's room and twelve cells, ten of which are built of iron. A fire-proof vault, with walls 18 inches thick, for the preservation of public records, is built on the first floor. The public school building is a fine two-story brick, pleasantly situated on the crest of a hill. The first floor is occupied by class-rooms, and the second floor as offices for the Secretary of the Territory, and for the Territorial Library. There are 198 scholars enrolled, and an average attendance of 110. A school connected with the Church of the Sacred Heart, under the supervision of the Sisters of St. Joseph, has about forty pupils. They also contemplate the establishment of an academy for the instruction of young ladies as soon as circumstances will admit. The secret

and benevolent orders are well represented by Azatlan Lodge, No. 177, F. and A. M., organized in 1865, number of members, 75; Arizona Lodge, No. 1, I. O. O. F., organized July, 1868, number of members 58; and the Knights of Pythias, organized in 1877, number of members 33. The churches established are the Methodist Episcopal, organized in 1874; the Roman Catholic Church of the Sacred Heart, organized in 1878; the Congregational, organized in 1880; the Methodist Episcopal South, and the Baptists, who have recently erected a commodious house of worship. The St. Joseph's Hospital, established in 1878, is a wooden edifice, capable of accommodating about fifteen patients. It is under the supervision of the Sisters of St. Joseph, who kindly and carefully attend to the wants of the sick committed to their charge. There are two newspapers published, the *Arizona Miner*, and the *Arizona Democrat*, both issuing a daily and a weekly, replete with reliable information in regard to the resources of the Territory. A hook and ladder company, organized in 1880, has 70 members, and as a further protection against fire, cisterns have been constructed at each corner of the Court House plaza, containing powerful force pumps, capable of throwing water over the highest buildings. The town also contains a U. S. Land Office, telegraph and express offices, a

bank, theatre, public hall, public library, law library, Territorial library, several extensive mercantile establishments, steam saw mills, a sash, door, and blind factory, two breweries, and other business places incident to a city. There is at present no hotel in the place, but the Williams House provides excellent sleeping accommodations for the public, and good restaurants near by furnish all the delicacies that the market affords. Surrounding it are many mining districts of great importance, and along Granite Creek are placers where gold is profitably obtained by washing the soil in the rocker or in sluices. The mining districts contain rich veins of gold, silver and copper, some of which are already worked with profit; all regarding Prescott as the center of their business, and making it one of the chief mining towns of Arizona. Two lines of stages maintain communication with Phoenix, one via Big Bug, Bumble Bee and Gillette, the other via Wickenburg and Seymour; both connecting with stages for Maricopa on the Southern Pacific Railroad. Other lines maintain communication with Fort Mohave on the Colorado River via Hackberry, Mineral Park and Hardyville, with the Peck and Tiger mines, etc., with Brigham City and way stations, and with Fort Verde.

Officers:—William N. Kelly, Mayor; F. G. Brecht, Alvin

S. Haskell, John Raible, and Charles Spencer, Councilmen; William Vernon, Treasurer; Charles B. Rush, Recorder; J. D. Park, Assessor, James M. Dodson, Marshal.

Acker & Smith, butchers, Gurley

Adams G H Rev, superintendent M E Church in Arizona
Ah Gunn, restaurant, Montezuma

Antelope Copper Mining Co,
Curtis C Bean agent, Arizona
Bank Building

Ainsworth F K, physician,
Gurley

Arizona Brewery, Urfer & Co
proprietors, Montezuma

Arizona Democrat, Gideon J
Tucker editor and publisher,
Cortez

Arizona Miner, Charles W
Beach editor and publisher,
Montezuma

Arnhold Frederick W, uphol-
sterer and paper hanger,
Cortez

Bank of Arizona, Sol Lewis
president, M W Kales cash-
ier, Cortez

Bashford L & Co, general mer-
chandise, Gurley

Beach Charles W, editor and
publisher "Arizona Miner,"
Montezuma

Bean Curtis C, mining, Arizona
Bank Building

Bennett W W, gunsmith, West
Prescott

Black Bros & Weston, feed
yard, West Prescott

Blake F W, banker, and agent
Wells, Fargo & Co, and Gil-
mer, Salisbury & Co's Stage
Line, Montezuma

Blake & Co, assayers, Monte-
zuma

F. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

- Bones & Spencer**, fruits, confectionery, stationery, cigars, tobacco, etc, Montezuma
- Bowers & Richards**, capitalists, Cortez
- Bradshaw Basin Mill**, Curtis C Bean agent, Arizona Bank Building
- Brannen P B & Co**, groceries, provisions, liquors, etc, Cortez
- Bray T C & Co**, dry goods, clothing, boots, shoes, hats, trunks, stationery, etc, Cortez
- Brecht Frederick G**, blacksmith and wagonm'k'r, Gurley
- Brown C D**, proprietor Prescott Foundry
- Buffum W M**, general merchandise, Montezuma
- Butler Thomas J**, Treasurer Territory of Arizona, and U S Court Commissioner, Montezuma
- Campbell John G**, general merchandise, Montezuma
- Carpenter J H**, notary public, Arizona Bank Building
- Cartter Harley H**, attorney-at-law and deputy recorder Yavapai Co, Court House
- Cate C F**, proprietor Exchange Saloon, Montezuma
- Churchill & Masterson**, attorneys-at-law, Arizona Bank Building
- Clark E P**, Auditor Territory of Arizona
- Clark & Adams**, lumber manufacturers, and doors, windows and blinds
- Cline W A**, member Board of Supervisors Yavapai Co
- Coleman George M**, boot and shoemaker, West Prescott
- Connell Robert**, wholesale liquors and cigars, and liquor and billiard saloon, Montezuma
- Cook E J**, treasurer Yavapai Co, Gurley
- Crane Joseph C**, Diana Saloon, Montezuma
- Crocker Charles**, boot and shoe maker, Cortez
- Curtis George W**, saw-mill, 2½ miles s of Prescott
- Dake C P**, U S Marshal Territory of Arizona
- Daly Thomas B**, liquor saloon, Montezuma
- Deraches J Rev**, pastor Church of the Sacred Heart
- Dickinson Charles**, shoemaker, Granite
- Dodson James M**, city marshal
- Dougherty John W**, groceries, provisions, liquors, grain, etc, and proprietor O K Feed Yard, West Prescott
- Eckhoff E A**, civil engineer and notary public
- Ellis Nathan**, general merchandise, insurance agent, and real estate, Cortez
- Fisher Frederick G**, blacksmith, Cortez
- Fisher J L**, general merchandise, Montezuma
- Fisher P M**, justice of the peace and notary public, Montezuma
- Fleury Henry**, justice of the peace and notary public
- Frederick & Hill**, stoves, tinware, etc, Montezuma
- Fremont John C**, Governor Territory of Arizona
- French C G W**, Chief Justice Supreme Court of Arizona and Judge Third Judicial Dist
- Furbish A A Mrs**, millinery, Gurley
- Garretsee Garret**, carpenter and builder, Granite
- Gilmer, Salisbury & Co's Stage Line**, F W Blake agent, Montezuma

Goldwater Henry, cigars, tobacco, and cutlery, Montezuma
Goldwater M & Son, general merchandise, Cortez
Gosper John J, Secretary Territory of Arizona, Gurley
 Gosper & Smith, livery and feed stable, West Prescott
 Green C W Rev, pastor Methodist Episcopal Church
 Guild J A, restaurant, Gurley
 Haight M E Mrs, dressmaker, Cortez
 Hall J L, justice of the peace, Montezuma
 Hall & Poe, butchers, Montezuma
Hargrave Joseph P, district attorney Yavapai Co, and notary public, Court House
Hargrave & McGrew, attorneys at law, Court House
 Hathaway Guilford, livery and feed stable, Granite
Hatz Daniel, bakery, boarding-house, and saloon, Montezuma
Hazeltine William E, assistant cashier Bank of Arizona, Cortez
Head C P & Co, general merchandise, Gurley
 Herbert Henry M, under-sheriff Yavapai Co, Court House
 Herzog E, groceries, provisions, fruits, etc, Gurley
Holden W F, agent Commercial Insurance Co of California
 Howard John, attorney at law, Montezuma
 Howey James, blacksmith and wagon-maker, Cortez
 Hunt T C, pastor Congregational Church
Kelly W N, mayor City of Prescott and register U S Land Office, Montezuma

Kelly & Stephens, stationery, cigars, clothing, boots, shoes, etc, Montezuma
Kendall George D, druggist and physician, Gurley
 Kerr Joseph, wagon-maker, Montezuma
Kirwagen & Sines, proprietors Sazerac Saloon, Gurley
Levy D & Co, general merchandise, Montezuma
Lewis Sol, president Bank of Arizona, Cortez
Lincoln Oscar, druggist and apothecary, Gurley
 Lindenbaum Benjamin, carpenter, Montezuma
 Long Thomas, half-way house and feed-yard, Whipple Road
 Lount George, receiver U S Land Office, Montezuma
 Martindell C R, insurance ag't, Cortez
Mason A J, manufacturer boots, shoes, harness, and saddlery, and dealer in saddlery, hardware, leather, gloves, etc, Cortez
Masterson Murat, attorney at law, Arizona Bank Building
 McCandless J N, physician, Montezuma
 McGrew William H, attorney at law, Court House
Meador J F, agent Hugh White & Co's Stage Line, notary public, insurance agent, and operator U S Military Telegraph, Montezuma
Miles James H, carpenter and builder, Marino
Milligan Thomas, barber and baths, Montezuma
Mitchell Daniel F, photographer and clerk Board Supervisors, Cortez
 Morgan Thomas J, watchmaker and jeweler, Gurley

H. IRVINE & CO., PHOENIX, A. T., MEDICINES, PAINTS, OILS AND GLASS.

Murphy & Scholey, liquor saloon, Montezuma

Noyes A O, probate judge Yavapai Co Court House

O K Feed Yard, John W, Dougherty proprietor, West Prescott

Otis T W, postmaster, and dealer in groceries, cigars, stationery, etc, Gurley

Pacific Brewery, John Raible proprietor, Montezuma

Park Jesse A, deputy collector U S Internal Revenue, Gurley

Porter George S & Co, furniture, wall paper, bedding, upholstery, picture frames, moldings, etc, Cortez

Prescott and Thirty - Fifth Parallel R R Co, A L Moeller president, W C Bashford treasurer, W E Hazeltine secretary

Prescott Foundry, C D Brown proprietor

Prescott Mining Co, Curtis C Bean agent, Arizona Bank Building

Radzewsky Jacob, blacksmith, Granite

Raible John, proprietor Pacific Brewery and liquor saloon, Montezuma

Randall Charles A, hardware, tinware, saddlery, harness, boots and shoes, Montezuma

Roberts John W, gunsmith, Granite

Robinson Benjamin, barber and baths, Cortez

Rodenburg Julius N, chairman Board of Supervisors Yavapai Co

Rodgers E A, ice depot, North Granite

Rush Charles B, attorney at law and city recorder, Montezuma

Rush & Wells, attorneys at law, Cortez

Ryder Emmons P, dentist, Arizona Bank Building

Sang Chong & Co, Chinese goods, Montezuma

Sherman M H, superintendent of Public Instruction Territory of Arizona

Shull John T, proprietor Plaza livery, feed, and sale stable, Goodwin

Simmons Thomas W, public administrator Yavapai Co

Sorg Jean, liquor saloon, Granite

Southern Pacific Mail and Stage Line, Kerens & Griffith proprietors, F W Williams agent, Gurley

St Joseph's Hospital, in charge Sisters of St Joseph, Marino
Stahl Edward, assayer, Montezuma

Thorne Daniel C, prop'r Cabinet Saloon, Montezuma

Thorne & Piercy, prop'rs Cabinet Restaurant, Montezuma

Throne W H, carpenter, Cortez
Tompkins W J, barber, Montezuma

Tompkins & Jackson, liquor and billiard saloon, Montezuma

Trevaskis H Mrs, proprietress Waldo House, Montezuma

Tucker Gideon J, editor and publisher Arizona Democrat, and attorney at law, Cortez

Tucker Paul, attorney at law, Cortez

United States Internal Revenue, J A Park deputy collector, Gurley

United States Land Office, W N Kelly register, George Lount receiver, Montezuma

United States Military Telegraph, J F Meador operator, Montezuma

Urfer Gotlieb, liquor saloon and lodgings, Cortez

Urfer G & Co, proprietors Arizona Brewery and liquor saloon, Gurley

Vernon William, proprietor Parlor Saloon, and city treasurer, Montezuma

Waldo House, Mrs H Trevas-kis proprietress, Montezuma

Walker Joseph R, sheriff Yavapai Co, Court House

Walker R H, notary public

Weaver Benjamin H, groceries, provisions, clothing and produce, Montezuma

Wells Ed W, attorney at law and notary public, Cortez

Wells, Fargo & Co, F W Blake agent, Montezuma

Weyl Joseph, notary public, Gurley

White Hugh & Co, proprietors Hardyville and Fort Mohave Stage Line, Montezuma

Whitehair A J, feed yard, Cortez

Wilkerson William, recorder Yavapai Co, and clerk Supreme and District Courts, Court House

Williams A P, proprietor Williams House, Gurley

Williams Frederick W, agent Southern Pacific Mail and Stage Line, Gurley

Wilson & Haskell, manufacturers doors, windows and blinds, and dealers in lumber, Cortez

Windes R A Rev, pastor Baptist Church

Queen City P O,

Pinal Co, 31 miles n e of Florence, is pleasantly situated at the mouth of Queen Creek Cañon, three miles east of Pi-

nal City. In view of the town is a precipice over which three hundred and fifty hostile Indians were driven headlong to destruction by Gen. Crook's troops. It is said that human bones can still be found to mark the spot where they perished. Two quartz mills located here are in operation most of the time, crushing ore from the mines in the vicinity.

Creveau —, boarding house
Czarnowski A F, mining sup't
Deutsch William, b'ding house

Elmore D T, mining superintendent and assayer

Faylor & Parker, liquor saloon
Gen Shuy, restaurant

Miller Charles, general merchandise, postmaster, and notary public

Nettle Matthew, mining superintendent

Scott W M, mining sup't

Taft D H, mining sup't

Wentworth F G, gen'l mdse

Reno P O,

Gila Co, 55 miles n w of Globe.

Cline C, justice of the peace

Prater William, postmaster and station keeper

Smith —, liquor saloon

Richmond,

Gila Co. (See Nugget P O.)

Riverside P O,

Pinal Co, 30 miles e of Florence, on the San Pedro River. Smelting works have recently been erected here, to work copper ore obtained from a mine about six miles distant.

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

Stages for Florence and Globe pass tri-weekly.

Pinal Copper Mining Co, smelting works

Putnam C D, postmaster and station keeper

Sacoton,

Pinal Co, 25 miles west of Florence.

Fish E N, general merchandise

Safford P O,

The county seat of Graham Co, is situated about one quarter of a mile south of the Gila River, in the Pueblo Viejo Valley, a section containing some excellent agricultural and grazing lands. The mines in the vicinity are principally copper, but not yet developed to any extent. The erection of buildings for county use and other improvements are in progress, and in the near future this will no doubt be a place of some note.

Anderson P, hotel

Ballard William, wagon maker

Clarke W F, recorder Graham County and attorney at law

Curtis Munroe M, carpenter

Franklin A M & Co, general merchandise

Glassman & Co, brewery

Harrison John, liquor saloon

Hayes James, attorney at law

Haynes James, surveyor Graham County

Hill Joseph, cattle dealer

Hyatt & Co, proprietors Star Flouring Mills

Jacobs B M, postmaster

Katz A, notary public

Lake George, probate judge
Graham County

McCarty G B, gen'l mdse

Morris James, attorney at law

Munson William, freighter

Osborn N, district attorney Graham County

Rose C B, sheriff Graham Co

Sims John, carpenter

Towndron W N, physician

Tuttle Edward D, justice of the peace and coroner Graham County

Wade Anthony, blacksmith

Wilson S F, school teacher

Saint Joseph P O,

Apache Co, 80 miles n w of St John.

Ladd G S, justice of the peace

Richards J H, postmaster

San Carlos P O,

Graham Co, 60 miles n w of Safford, is situated in the western portion of the county, on what is known as the San Carlos Reservation. It is the residence of the U. S. Indian Agent and his assistants, who have under their charge about 5,000 Indians belonging to several different tribes, but all of whom are generally designated as Apaches. Among these are what is left of the blood-thirsty savages who but a few years since roamed through the land seeking every opportunity to plunder and kill all who were so unfortunate as to fall in their way. They have at last, however, been subjugated, and are now quietly living on the reservation, protected and provided for by the Gov-

ernment, but subjected to certain restrictions necessary to preserve law and order, and prevent those who might be so disposed from wandering away to commit depredations. Agricultural implements and seeds are furnished to those who wish to cultivate the soil, and quite a number are now engaged in this pursuit, while others are disposed to lead an indolent and roving life.

The Globe Mercantile Co, general merchandise
Tiffany J C, U S Indian Agent
Wood Reuben, general merchandise and justice of the peace

San Simon P O,

Cachise Co, 75 miles n e of Tombstone, on the Southern Pacific Railroad, 125 miles east of Tucson, is the distributing point for freight destined for the mining camps in California and Chiricahua Districts. Stages leave daily for Galeyville, 22 miles distant.

Farrington R E & Co, general merchandise and forwarding and commission merchants
Johnson J Mrs, restaurant
Kelly R B, forwarding and commission merchant, and U S deputy mineral surveyor
Rynerson A C & Co, stage proprietors
Sells & Berry, groceries, liquors, etc, and restaurant
Tompkins Peter, liquor saloon
Wells, Fargo & Co, G F Moore agent

San Xavier Del Bac,

Pima Co, nine miles s of Tucson, in the valley of the Rio Santa Cruz, a village of Papago Indians, is distinguished for its church, an ancient structure in the Moorish order of architecture, built by the Jesuit missionaries in the early part of the eighteenth century. The history of this venerable edifice is in doubt; but the most authentic accounts of the establishment of the Mission, and subsequent erection of the present structure, say that the missionaries followed in the pathway of the exploring and conquering party of Coronado about the year 1560, planting several missions on the route to the Gila, one being at the locality now known as San Xavier Del Bac, or San Xavier of the Spring. It cannot be presumed that the original Mission bore the name of San Xavier, as that great disciple of Ignatius Loyola was not canonized until 1622, although he died eighty years before, one of the most eminent and successful of missionaries. A church was erected and a mission maintained for more than a hundred years, when these advanced outposts of civilization were beaten back by hostile savages, and their buildings laid waste. About 1730 the place was reoccupied and the present edifice erected, its construction probably occupying many years, as it really never has been completed. Situated as it is—or until very

E. IRVINE & CO., Phoenix, A. T., AGRICULTURAL IMPLEMENTS.

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

recently it was—in the midst of a wilderness, surrounded by low adobe houses and Indian huts, it makes a most imposing appearance, and impresses the beholder with a feeling of reverence and admiration. The surprise, the contrast, and the age of the structure, combine to give an impress of grandeur greater than would obtain were the building in a different locality. Here the traveler may imagine himself in one of the Barbary States, or in the Holy Land, or take himself back to medieval times; as the old church and its surroundings, its swarthy guardians, its sundried hills, its vegetation of the desert border, and the ever-blue sky above it, all remind him of an age, a land and a people, not of the present—not American. Linking the present with the past—showing two ages in one—the venerable pile, so sacred to the poor Indians, who guard it so faithfully, should be held sacred as a monument in the pathway of Time by the new element now surging around it in the mad excitement of progressive enterprise. Now it is the “Blarney-stone” of Arizona, and he who writes of the Territory and neglects San Xavier, says nothing worthy of notice. The church covers an area of 8,050 square feet, in the form of a Latin cross, the exterior dimensions being 115 feet by 70, and 57½ feet to the upper floor of the tower, and about 75 feet to the extreme top.

The material is brick and stone, laid in a cement of superior quality, the source of which is unknown in the locality at present. The main body is surmounted by a dome, and a tower rises from each of its front angles. The eastern tower, intended, evidently, as the principal, remains unfinished. The outside was once stuccoed with white cement, but the marks of age are on its walls. Frescoes, portraits, niches, and statuary once adorned the interior, and their remains bespeak for them a former elegance and worth worthy the place. It is related that there were formerly more than eighty pieces of statuary in the church, representing Christ, the Apostles, and Saints, but the images remaining are past recognition. The large fresco paintings of “The Last Supper,” “The Pentecost,” “The Nativity of Christ,” “The Annunciation,” “The Visitation of the Virgin,” and others, are past recognition. The Indian, while venerating the structure, and dimly appreciating its purpose, has not learned to finish or to repair, much less to build; and nothing but original strength has saved this monument of the past from obliteration.

Seymour P O,

Maricopa Co, 49 miles n e of Phoenix. Stages for Prescott and Phoenix pass daily, connecting with a line for Vulture Mine, 11 miles distant.

Conger Daniel, stage station and liquor saloon

Signal P O,

Mohave County, 75 miles s e of Mineral Park, on the Big Sandy River, about 18 miles above its confluence with Bill Williams Fork. In this section are numerous gold and silver ledges, some containing ore of a high grade.

Hall Charles, liquor saloon
Kimble Bros, gen'l mdse,
Koshland H, notary public
Levy, Koshland & Co, general merchandise and hotel

Silent P O,

Yuma Co, 40 miles n of Yuma, in Silver District. In this district are located several rich mines which are being rapidly developed. A tri-weekly line of stages maintain communication with Yuma, Castle Dome Landing, Norton's Landing, and Ehrenberg.

Crawford A D, justice of peace
Holjes J H & Co, general merchandise and liquor saloon
Mendez Saturnino, boarding
Millar Walter, blacksmith and wagonmaker
Miller W G, attorney at law
Norton Charles T, general merchandise, postmaster and notary public
Rhodenback Harry, hotel
Stein Joseph J & Co, liq saloon

Silver King P O,

Pinal Co, 35 miles n e of Florence and 7 miles from Pinal City, is pleasantly situated in

a rich mining district called the Pioneer. Here is located the famous Silver King mine, which since its discovery in 1875 has been continually yielding ore of extraordinary richness. The climate of this section is delightful and wood and water abundant. Daily communication is maintained with Pinal City, Florence, Casa Grande, and Picacho by stage, and with Globe by saddle train.

Buckalew & Ochoa, gen'l mdse
Ellis, Aron & Co, gen'l mdse
O'Boyle W C, proprietor Silver King Hotel
Thompson E F, postmaster and notary public
Thompson & Bowen, liquor saloon
Williams Robert, proprietor Williams Hotel
Young R, news depot

Skull Valley P O,

Yavapai Co, 18 miles s w of Prescott.
Dickson John H, stage station
Dickson Mary Mrs, postmistress

Snowflake,

Apache Co, 45 miles west of St. John.
Smith J N, notary public

Solomonville P O,

Graham Co, 3 miles w of Safford, and half a mile south of the Gila River, is in a section containing good agricultural and grazing lands.
Jesus Bros, hotel

E. IRVINE & CO., Phoenix, A. T., FURNITURE, CARPETS AND WALL PAPER.

Quiros R, blacksmith and wagonmaker

Solomon I E, general merchandise and postmaster

Solomon Nathan, livery stable
 Wickersham D W, attorney at law, justice of the peace and notary public

Springerville P O,

Apache Co.

Franklin C A, postmaster

St. John P O,

The county seat of Apache Co, is situated on the Little Colorado River, about 25 miles west of the line of New Mexico.

Baca Dionicio, treasurer Apache County

Bailey R J, recorder Apache Co
 Franklin C A, probate judge Apache Co

Rudd W R, district attorney Apache Co

Stover E S, sheriff Apache Co

Stanton P O,

Gila Co, 18 miles n w of Globe, occupies a beautiful site in a fertile valley, surrounded by scenery romantic and grand. The climate of this section is delightful, grain and different kinds of vegetables grow luxuriantly, and wood and water are abundant. A ten-stamp mill, owned by the Mack Morris Mining Co, is located here.

Johnson Thomas L, postmaster
 Johnson & Baldwin, general merchandise

Walker George B, justice of the peace

Summit Station,

Cachise Co.

Hooker C M, station keeper

Sunset P O,

Apache Co, 90 miles n w of St John.

Blanchard & Breed, gen'l mdse
 Savage L M, postmaster

Sweet Water,

Pinal Co; 30 miles w of Florence.

Rittenhouse J D, gen'l mdse

Taylor P O,

Apache Co.

Perkins Jesse N, postmaster

Tempe P O,

Maricopa Co, 9 miles e of Phoenix, on the south side of Salt River, is in a section noted for its rich agricultural lands. Grain, and all kinds of vegetables grow luxuriantly, and almost every variety of fruit known in temperate or tropical climates thrives well; large quantities of alfalfa are grown, the land producing as many as six crops in a year; cotton, sugar cane, coffee and rice can also be raised. An abundant supply of water for irrigating purposes is brought in ditches from Salt River. The weather is moderate during the greater part of the year, but in May, June, July and August, it is at times excessively hot.

Barstow J A, justice of peace

Crismon C, flour mill

Edwards —, tannery

→ **FULTON** ←

IRON WORKS.

→ **HINKLEY, SPIERS & HAYES, PROPRIETORS.** ←

OFFICE,

220 Fremont Street, San Francisco, California.

MANUFACTURERS OF

Quartz Mills,
Amalgamating Pans,
Settlers,
Steam Engines,
Boilers,
Hoisting Works,
Ore Cars and Buckets, Cages,
Pumping Machinery,
Compressors,
Retorts,
Smelting Furnaces,
Ore Feeders.
Car Wheels and Axles,
And all other kinds of Machinery used on the Coast.

Sole Agents for the Pacific Coast for the Celebrated

DEANE STEAM PUMP.

We have manufactured the Machinery for the following Mills in the Tombstone District, viz :

TOMBSTONE MILL & MINING CO.
GRAND CENTRAL MINING CO.

SUNSET MINING CO., OR HEAD CENTER,
WESTERN MINING CO., OR CONTENTION MILL,
CORBIN MILL & MINING CO.

As well as Machinery for many other Companies in Arizona and Mexico.

THE

RISDON IRON

AND

LOCOMOTIVE WORKS.

CORNER BEALE AND HOWARD STREETS,

SAN FRANCISCO, CAL.

W. H. TAYLOR,
JOSEPH MOORE,

PRESIDENT
SUPERINTENDENT

→ BUILDERS OF STEAM MACHINERY ←

IN ALL ITS BRANCHES.

Steamboat, Steamship and Land Engines and Boilers,

HIGH PRESSURE OR COMPOUND.

ORDINARY ENGINES

Compounded when advisable.

STEAM BOILERS.

Particular attention given to the quality of the material and workmanship, and none but first class work produced.

WATER PIPE,

Of boiler or sheet iron, of any size, made in suitable lengths for connecting together, or sheets rolled, punched and packed for shipment, ready to be riveted on the ground.

HYDRAULIC RIVETING.

Boiler work and water pipe made by this establishment riveted by hydraulic riveting machinery, that quality of work being far superior to hand work.

PUMPS,

For mining, of any capacity and of any style. Our style of direct-acting, compound engines, with double line of pumps, are particularly recommended. We refer to those now in use, not one having ever been broken down.

DIRECT-ACTING ENGINES,

For underground work, irrigation or city waterworks' purposes, built with the celebrated Davey valve motion, superior to any other.

MINING MACHINERY.

Quartz Mills, Pans, Boilers, Hoisting Machinery, Sinking or Hoisting Engines, or other machinery required.

Gallardo F, liquor saloon and restaurant
 Goldman & Co, gen'l mdse
Harrison, Fisher & Co, flour and grain dealers
Hayden Charles T, general merchandise, flour mill, blacksmithing and wagon-making
Hill C W, postmaster and agent Commercial Insurance Co of California
 Imperial Eulalia, liquor saloon
 Priest James T, general merchandise
 Shannon P K, liquor saloon

Tip Top P O,

Yavapai Co, 55 miles s e of Prescott and 9 miles from Gillette, is a thriving mining camp in Humbug District. Here is located the Tip Top mine, which is constantly yielding very rich ore. Daily communication with Phoenix and Prescott is maintained by stage via Gillette.

Anderson H, justice of peace
 Arnold Peter, liquor saloon
 Bernard & Smith, liquor saloon
 Blackford W C, livery and feed stable
 Bolien Augustus, liquor saloon
 Bostwick John, liquor saloon
 Dawes & St James, general merchandise
 Kepple & Murphy, liquor saloon
 Mahar Joseph, restaurant
 Marlow George, butcher
 McPhee A J, justice of peace
 Rowe W A & Co, general merchandise
 Urfer G, liquor saloon
 Wager Edward G, fruit, confectionery, etc, and postmaster
 Webber & Co, boarding house

Tombstone P O,

Cachise Co, incorporated city and county-seat, 72 miles s e of Tucson, and 276 s e of Prescott, presents a conspicuous example of the sudden growth of a busy and prosperous town, only witnessed in the mining regions of the west. Less than a decade has passed since the blood-thirsty Cachise from his stronghold in the neighboring mountains, defied and repelled all intruding civilization, and decreed the land should ever be a waste and a wilderness, subject to his will and caprice. With his merciless Apaches he had made south-eastern Arizona the "dark and bloody ground" of the far West, and the name of the county and county-seat will be forever commemorative and suggestive of the fierce chief and his victims. The Dragoon Mountains, the favorite rendezvous of Cachise; Mule Pass, Apache Pass, Dos Cabezas, the Chiricahua, and the Tombstone Mountains of this region, all bear sad remembrances of the dire conflict so long maintained between the aborigines of the country and the white traveler and settler; and the very mention of their names will, at least until the generation of pioneers has passed away, bring a thrill and a tremor to the body as it recalls the scenes and events of former days. After great sacrifice and loss of life, the indomitable courage of the white man has prevailed, and

H. IRVING & CO., PHOENIX, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

the dread localities named are now sought without danger, and have become seats of pleasant and prosperous homes. The date of the first discovery of silver-bearing ores in this region is not definitely known; but a German mineralogist named Bronkow was the first to locate and attempt the working of a mine in these mountains—the mine being seven miles south-west of the present town. Bronkow was foully murdered by his Mexican operatives before he had developed it to any great extent. Others followed in his footsteps, to meet a similar fate at the hands of the Apaches. Sixteen persons, including locators and operatives, are thus reported to have been slain in the attempt to develop the mine, until it was said he who would go there should first prepare his tombstone; and prospectors thitherward bent, jocularly saying they were going to their tombstone, gave the name to the mountain now so noted for its wealth of minerals; hence the name of the district and of the city. But the discovery of the mines which have drawn attention to the district was made by A. E. Scheiffelin in the fall of 1877; and in February, 1878, he and Richard Gird located the Tough Nut, Contention, and other mines. From that time must date the existence of the district, and the town soon followed. The first store in the vicinity of what is now the city of Tomb-

stone was opened by A. W. Stowe, about September, 1878, at a place called Water-vale, two miles from the present town-site; and soon afterwards another was opened at the same place by Messrs. Cadwell & Stanford. The next store was opened by J. B. Allen, at a place called Hogem. In February, 1880, two other stores were established by Mark P. Shaffer—one at Hogem and another at Richmond. The first restaurant on the present town-site dates from June, 1879, under the proprietorship of C. H. Brown; and the pioneer saloon soon followed, built by Calhoun Brothers: and the town may then be said to be established and endued with life and spirit. The stores of Messrs. Allen, Cadwell & Stanford, and Shaffer, were in 1880 removed to Tombstone, and with the store of P. W. Smith were the first establishments of the kind in the embryo city. The town-site was located in April, 1879, by Judge Bidwell, J. S. Clark, and others. The village grew rapidly, keeping pace with the development of the mines, until now, July, 1881, it is an incorporated city, with a population estimated at from 6,000 to 7,000—the liveliest and most promising mining town on the Pacific Coast. The location is favorable for the building of a city, being on a slight elevation or ridge, the surface falling on every side, affording opportunity for

drainage, while it is of easy access. The streets are broad, crossing each other at right angles; those running east and west being named after pioneer citizens, and the cross streets bearing numbers. The buildings are as yet rude and simple, being mostly of lumber, hastily constructed; but some are of adobe, and being covered with mastic in imitation of brick, present quite a fine appearance. Hotels, banks, stores, printing-offices, saloons, a theater, churches and schools are among the public buildings of prominence; and all business pertaining to a busy American city is carried on. The Sycamore Spring Water Company supplies the city with water from a spring 8 miles north, which is brought in iron pipes of four inches diameter, having a capacity of 85,000 gallons per day; but this quantity is not usually maintained. Water is also brought in carts from wells $2\frac{1}{2}$ miles from town. A survey has been made for a line of pipes to conduct water from the Huachuca Mountains; and as water has been struck in some of the deep mines, an adequate supply will soon be had for all purposes. On the 22nd of June, 1881, about four blocks in the business portion of the city were swept away by fire—involving the destruction of one hundred and fifty buildings, and a loss of over \$200,000. Such a disaster was, of course, severely felt; but in so young

and vigorous a community, with most abundant resources in the first stage of development, it could be of but temporary effect. The work of rebuilding was at once commenced, with great improvement on the old, and with precautions against a recurrence of the calamity. Easy and rapid connection is had with the world by means of the Southern Pacific Railroad at Benson, twenty-eight miles north, and this distance will soon be eliminated by the construction of a railroad, which is expected to be completed before the end of the year. The telegraph gives instant communication, and many lines of stages lead to all the surrounding towns. Hotels of a high character, among which the Cosmopolitan—a first-class house conducted on the European plan, C. Bilicke, proprietor—also the Grand and Brown's, invite the traveler to comfortable homes. The banking house of Safford, Hudson & Co., and many other large business houses, show the wealth and stability of the city. Four newspapers—the *Epitaph*, *Nugget*, *Expositor*, and *Evening Gossip*—advocate the interests of the section, publishing the local and telegraphic news, and serving the great purpose of the press in enlightening the people, exposing crimes, and maintaining order in the community. Although so new a town, composed of such heterogeneous elements, and containing

L. BASHFORD & CO., PRESCOTT, A. T., Headquarters of Mining Men.

a large floating population, society is good, and law and order prevail. A public school is maintained, having a building with accomodation for one hundred and fifty pupils. There are one hundred and ten enrolled, under the supervision of two teachers. A private school—The Tombstone Academy—Prof. J. B. Patch, principal, is an excellent institution and well attended. The Methodists, Presbyterians, and Catholics have churches. The Tombstone Methodist Episcopal Church was organized May 13th, 1880, being the pioneer society, services having been held as early as February, 1880. The church edifice was completed and opened for divine service in October, 1880. It is an adobe building, erected at a cost of about \$4,000. The First Presbyterian Church was organized September 18th, 1880. The congregation has erected a substantial wooden edifice, costing about \$1,400, which was opened for divine service December 19th, 1880. The Church of the Sacred Heart (Roman Catholic) was organized in August, 1880. The Rev. Antonio Jouvenceau, of Tucson, was the first Roman Catholic clergyman who held services in Tombstone. The church edifice—a wooden building, with a seating capacity of about two hundred—was opened for divine service on January 22nd, 1881, Rev. E. P. Schnider, its present pastor, officiating. The

benevolent and social orders are also well represented. The Solomon Lodge, F. and A. M., was organized in March, 1881, working under the jurisdiction of the Grand Lodge of California. The Tombstone Turn-Verein was organized November 20th, 1880. They have a fine one-story wooden building on the corner of Fourth and Safford streets, erected at a cost of \$2,000, and furnished at an additional cost of \$500. The building contains a reading-room supplied with papers from various parts of the world. The Cachise Lodge No. 3, Independent Order of Good Templars, was organized February, 1881, with thirty members. The Odd Fellows and Knights of Pythias have also recently organized. The Tombstone Mining Exchange was incorporated March 12th, 1881, with the object of buying, selling, and improving real estate, dealing in mining stock, etc. The number of members is seventy. They propose to erect a two-story adobe building, 30 feet front by 100 feet in depth, which will contain a library and reading-room for members, and a cabinet of minerals and native woods. A gas company and a street railroad company have been formed, completing the round of city institutions. Stages of the Arizona Mail and Stage Line leave daily for Benson, via Contention City, connecting with the trains of the Southern Pacific Railroad;

also tri-weekly for Bisbee, via Charleston and Hereford; and for Harshaw, via Charleston, Camp Huachuca and Camp Evans.

Officers.—John P. Clum, Mayor; George Pridham, J. A. Kelly, Smith Grey and Godfrey Tribolet, Councilmen; Marcus P. Hayne, Attorney; Josiah Brown, Treasurer; A. O. Wallace, Recorder and Police Judge; Frank Walker, Assessor; Benjamin Sippy, Marshal; G. E. Goodfellow, M. D., Health Officer.

Abbott B M, undertaker, 222 Fifth

Abbott Grafton St L, attorney at law, 433 Fremont

Ackley Charles, civil engineer and deputy U S mineral surveyor, 218 Fifth

Ahlers J D & Co, root beer brewery and coffee saloon, 203 Fourth

Anderson G W, physician, Cosmopolitan Hotel

Anderson N D, attorney at law
Anderson & Schmidt, proprietors Russ House, Fifth

Anderton F S, Palace Saloon, 504 Allen

Andrew & Co, groceries and fruits, 224 Fourth

Aram Eugene W, attorney at law and notary public

Archer & Co, Cosmopolitan Saloon, Allen

Arizona Brewery, Bernhardt & Leptien prop'rs, 520 Allen

Arizona Corral and Livery Stable, A G Garrison prop'r, corner Allen and Third

Arizona Mail and Stage Line, J D Kinnear & Co proprietors, 427 Allen

Arizona Transportation Co, C H Light sup't freighting, Fremont

Armstrong & Young, wagons, Allen

Arnold George, civil engineer and surveyor, 508 Allen

Atchison Thomas A, tinsmith and plumber, 212 Fourth

Bacigalupi & Martin, butchers and sausage-makers, 710 Fremont

Baldrige William J, groceries, fruits, etc, cor Allen and Sixth

Balurdo V R, barber and baths, 419 Allen

Baron William, barber and baths, 406 Allen

Bayley George, prop'r Bayley's Restaurant, 403 Allen

Beauchamp Onesime, carpenter, 306 Fremont

Behan John H, sheriff Cachise Co, 306 Fifth

Bell H J A & Co, liquor saloon, 511 Allen

Bennetts & Co, Magnolia Saloon, 522 Allen

Bernhardt & Leptien, Arizona Brewery and liquor saloon, 520 Allen

Berry George G, attorney-at-law, cor Fifth and Fremont

Berwin Simeon, tailor, 219 Fifth

Bilicke C, proprietor Cosmopolitan Hotel, 407-411 Allen

Bissell C E Mrs, dressmaker, 723 Allen

Blackburn L F, deputy sheriff and collector, 304 Fourth

Blair Charles C, Way-Up Lodging House and Saloon, 725 Allen

Blinn L W & Co, lumber, doors, windows and blinds, Tough Nut

Borland Mrs, dressmaker, 523 Fremont

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

- Bourland W A**, cigars and tobacco, 431 Allen
Brooks Ella Mrs, wines and liquors, 226 Fourth
Brown Charles R, proprietor Brown's Hotel, corner Fourth and Allen
Brown Fielding C, liquor saloon, 218 Fourth
Brown Jessie E, Mrs, proprietress Grand Hotel, 424 and 426 Allen
Brown Josiah, city treasurer
Brown R J Mrs, lodgings, 112 Fifth
Brown, Taylor & Co, corral and feed yard, Allen
Brown & McGregor, carpenters and builders, 307 Fourth
Bullock E & Co, livery and feed stable, Fremont
Burke Francis G, attorney at law, Fremont
Cadwell & Stanford, general merchandise, 512 Allen
Cæsar Julius, bakery and restaurant, 415 Allen
Cameron & Allender, wines and liquors, 429 Allen
Campbell Alexander, attorney at law, Allen
Campbell R J, clerk Board of Supervisors, Cachise Co
Campbell Robert, restaurant and liquor saloon, 219 Fourth
Campbell & Hatch, billiard parlors, 421 and 423 Allen
Carleton Frank H, restaurant, cigars and confectionery, 523 Allen
Carpenter Sidney W, notary public and conveyancer, 209 Fifth
Carr John, blacksmith, 310 Allen
Chapin S B, stationery, cigars, etc, 220 Fourth
Charles Lee Kong, Chinese goods, 238 Allen
Christie M R Mrs, lodgings, 107 Fifth
Clapp Milton B, cashier Saf- ford, Hudson & Co, notary public and insurance agent, 206 Fifth
Clark James S, capitalist, 532 Fremont
Clifford Robert, butcher, 614 Fremont
Clum John P, postmaster and mayor Tombstone, 220 Fourth
Clum & Reppy, publishers Tombstone Epitaph, 325 Fremont
Coghlan & Clements, Virginia Saloon, 522 Fremont
Cohen R, groceries, mining and mill supplies, cor Allen and Sixth
Cohn A & Bro, cigars, tobacco and notions, 509 Allen
Colby Mattie Mrs, wines and liquors, Allen
Colby P T, attorney at law and notary public, Gird's Building
Commercial Job Printing Of- fice, H W Hasselgren, prop-rietor, 520 Fremont
Cornwell John W, notary pub-lic, 431 Fremont
Cornwell & Davis, accountants and collectors, 431 Fremont
Cosmopolitan Hotel, C Billeke proprietor, 407-411 Allen
Crowley B A Mrs, dressmaker and agent Butterick's pat-terns, 114 Fourth
Culver Belden F, dealer in min- ing properties, Gird's Building
Cusich J, restaurant, 216 Fourth
Danner & Owens, Bank Ex- change, 438 Allen
Davis L H, attorney at law and notary public, Gird's Building
Dee William, blacksmith, Allen
Dillon & Kenealy, dry goods, etc, 418 Allen

Diss F A J, agent Tombstone and Charleston Ice Co, Tough Nut
Diss & Co, commission merchants, Tough Nut
Doland & Brown, blacksmiths and wagon-makers, Third
Doling John, proprietor Tombstone Race Course, one mile from city
Drum Thomas J, attorney at law, 431 Fremont
Duclos Mme, dressmaker, Tough Nut
Dunbar Bros & Co, livery and feed stable, Fifth
Dunbar John O, treasurer Cahave Co, 306 Fifth
Duval Charles J, metallurgical engineer and assayer, 213 Fifth
Earll, Smith, Campbell & Robinson, attorneys at law, Allen
Earll & Banning, confectionery, etc., Fourth
Earp James C, sample rooms, 434 Allen
Egbert & Co, liquor saloon, 205 Fifth
Ekelund C P, liquor saloon, 618 Allen
Elmwood House, Allen S Johnson proprietor, 417 Fremont
Emmons G W & Co, hardware, 217 Fourth
Empire Lodging House, William C Morison proprietor, 433 Fremont
Ernst Hyman, tailor, 103 Fourth
Eschman & Alderson, liquor saloon, Fremont
Eureka Soda Works, Herve & Carbon, proprietors, 212 Sixth
Evening Gossip, Nash & Emmons, publishers, 215 Fourth
Everhardy Jacob, butcher, 404 Fremont
Farrell J R, notary public

Felter A J, justice of the peace and notary public, 332 Fremont
Fesenfeld William, stoves and tinware, 205 Fourth
Fickas B A, notary public and conveyancer, 227 Fifth
Fitch Thomas, attorney at law, Sixth
Fitzhenry John C, groceries and liquors, 216 Fifth
Fitzhenry & Mansfield, groceries and liquors, Fremont
Fitzpatrick Jeremiah, wagon-maker, 310 Allen
Flynn & Fitzpatrick, liquor saloon, Allen
Fonck John L, furniture and bedding, Fourth
Fortlouis Albert, stationery, cigars, and tobacco, 413 Allen
Fowler Henry R, physician, 518 Fremont
Frary A P Mrs, millinery and fancy goods, 516 Fremont
Frederick & Hill, stoves and tinware, 518 Allen
Frerichs D G, merchant tailor, 207 Fourth
Frink George K, general merchandise, 411 Fremont
Garrison A G, Arizona Corral and Livery Stable, cor Allen and Third
Gehman Henry L, shoe maker, 320 Allen
Geisenhofer O W, bakery and restaurant, 529 Allen
George A G P, attorney at law, 434 Fremont
Giberson N S, physician, 431 Fremont
Gildersleeve F V B, physician, Epitaph Building
Gillingham ———, physician, Epitaph Building
Gird's Building, cor Fourth and Fremont

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

- Glover Charles & Co**, boots, shoes, clothing, hats, etc, 503 Allen
- Godfrey & Burden**, house and sign painters, 109 Fifth
- Golden Eagle Brewery**, Wehrfritz & Tribolet proprietors, corner Allen and Fifth
- Goldschmidt Leo**, furniture, carpets, and bedding
- Goodfellow George E**, physician and health officer, 431 Fremont
- Graf & Schoenholzer**, blacksmiths and wagon makers, 231 Fremont
- Grand Hotel**, Mrs Jessie E Brown proprietress, 424 and 426 Allen
- Grant William M**, American Lodging House, Tough Nut
- Gray D L**, notary public and conveyancer, corner Fremont and Sixth
- Greer Joseph H**, druggist and physician, 325 Allen
- Gregg V A**, attorney at law, 414 Allen
- Gundall John**, shoe maker, 526 Allen
- Hafford R F & Co**, wholesale wines, liquors, and cigars, cor Allen and Fourth
- Hammond N W**, flour, hay, grain, and feed, Fremont
- Harris T S**, proprietor Tombstone Foundry and Machine Shop, corner First and Safford
- Hart Samuel L**, gunsmith and engraver, 421 Fremont
- Hartmann & Co**, watch makers and jewelers, and sewing machines, 513 Allen
- Harwood William A**, agt Morse & Co, lumber dealers, and notary public, 308 Fourth
- Hasselgren H W**, prop'r Commercial Job Printing Office, 520 Fremont
- Hatch Henry**, physician, Frem't
- Hattich Bartholomy**, merchant tailor, 528 Allen
- Hayne Arthur**, mining engineer and assayer, 518 Fremont
- Hayne Marcus P**, attorney at law, city attorney, and notary public, 327 Fremont
- Heitzelman Peter**, watches and jewelry, 430 Allen
- Helyar Albert**, barber, 533 Allen
- Henderson G T**, physician, Fremont
- Herve & Carbon**, prop'rs Eureka Soda Works, 212½ Sixth
- Heyes Wilfred A**, watch maker and jeweler, 212 Fifth
- Hickson Henry**, butcher, 218 Fremont
- Hiller F**, physician, Fifth
- Hills H E & Co**, groceries, 217 Fourth
- Hoefler Joseph**, general merchandise, 417 Allen
- Hooker Edward R**, butcher and sausage maker, 608 Allen
- Hopkins Mill Co**, C J Pilsbury manager, Watervale
- Howard James G**, attorney at law, 327 Fremont
- Howe Henry G**, civil engineer and U S deputy mineral surveyor, Gird's Building
- Hudson Taliaferro F**, drugs and medicines, 510 Allen
- Hung Chung**, Chinese goods, 229 Allen
- Hutton J F**, attorney at law, 227 Fifth
- Ingersoll A E**, dentist, 431 Fremont
- Ingoldsby Frank S**, draughtsman, 307 Fourth
- Israel Salomon**, Union News Depot, stationery, tobacco and cigars, 222 Fifth

Jackson Edward H, restaurant,
605 Allen
 Jenkins G W, dentist, 436 Fremont
 Johnson Allen S, proprietor Elmwood House, 417 Fremont
Johnson John P, groceries, 726 Fremont
Johnston A W, superintendent Sycamore Spring Water Co, Gird's Building
Jones A T, recorder Cachise Co, 304 Fourth
 Jones Harry B, attorney at law, Allen
Joyce M E & Co, wholesale liquor dealers and proprietors Oriental Saloon, Allen
 Kearney E T & Co, drugs, paints, oils, etc., 215 Fourth
 Kearsing Henry W, metallurgist and assayer, 214 Fourth
 Kelleher & Peel, civil engineers and U S deputy mineral surveyors, 317 Allen
Kellogg M E, Diana Lodging House and Saloon, 316 Allen
Kelly Julius A, Kelly's Wine House, 428 Allen
 Kemp & Coleman, photographers, Allen
Kilillea Kate Miss, Golden Eagle Restaurant, 213 Sixth
Kimball M H, mining operator, notary public and insurance agent, 319 Allen
Kingsbury Frank, manager Western Union Telegraph Co., 420 Allen
Kinnear J D & Co., proprietors Arizona Mail and Stage Line, 427 Allen
 Kinsman Catherine Mrs, lodgings, Tough Nut
 Kosha J A, restaurant, 507 Allen
Kramer & Emele, butchers and sausage makers, Allen

Lane Edward C, assistant postmaster, 220 Fourth
 Lange & Storm, butchers, 408 Allen
 Lavalthal B, general merchandise, cor Allen and Fourth
 Leary J Miss, ice cream and refreshments, 424 Fremont
Leary John, boot and shoemaker and dealer, 524 Allen
Leavens William M, machinist, locksmith and saw filer, 308 Fifth, (branch of 39 Eleventh, S F)
Leigh & Miramontez, liquor saloon, 323 Allen
 Lenoir Joseph, furniture, bedding, etc, 308 Allen
 Levi I, liquor saloon, Allen
Lewis J T, attorney at law, cor Fifth and Fremont
Lion Brewery, A Uebel & Co, proprietors 517 Allen
 Lippert & Peyser, barbers, 436 Allen
 Lloyd Hannah Mrs, restaurant 319 Fremont
 Loveland A, shoemaker, 537 Allen
Lowery & Shearer, proprietors Contention House, near Sulphuret Mine
Lowrey Alva C, attorney at law, 434 Fremont
Lucas J H, probate judge Cachise County, Gird's Building
 Lucas & Miller, attorneys at law, Gird's Building
 Lukini John & Co, Oriental Oyster House, corner Allen and Fifth
 Lynch P J, liquor saloon, Allen
Mand V, proprietor Union Soda Works, and liquor saloon, 406 Fremont
 Manning Joseph G, assayer, civil engineer, and U S deputy mineral surveyor, 212 Fifth

E. IRVINE & CO., Phoenix, A. T., MEDICINES, PAINTS, OILS AND GLASS.

Marchand G N, groceries and liquors, 408 Fremont

Marcovich Peter, Queen Chop House, 516 Allen

Mariluis & Co, liquor saloon, 207 Fifth

Matthews H M, physician and coroner Cachise Co

Maxson H B, notary public

Maynard & Milliken, liquor saloon, 432 Allen

McCann & Walsh, liquor saloon, 612 Allen

McClelland J J, Kentucky distillers' agent, liquors and cigars, 506 Allen

McConville J A, merchant tailor, 535 Allen

McIntyre J P, pastor Tombstone Methodist Episcopal Church, Safford

McKean & Knight, groceries, hardware, etc, 539 Allen

McKenna Mary, wines and liquors, 317 Fremont

McLane & Gray, proprietors Dexter Stables, 318 Allen

McMartin James, harness and saddlery, 318 Allen

McSwegan Daniel, physician, 210 Fourth

Meyer John W, X L N Saloon, 536 Allen

Miley Jacob A, Sonoma Wine House, and importer lager beer, 519 Allen

Milich F A & Co, fruits, produce and provisions, 432 Fremont

Millar W S, physician, 214 Fifth

Millard Gustavus A, dentist, 327 Fremont

Miller John M, attorney at law, Gird's Building

Minor B B, broker, and dealer mining properties, Allen

Montgomery & Benson, livery and feed stable, 513 Allen

Mooney D T, liquor saloon, Allen

Moore John H, barber, 437 Allen

Morgan & Silent, attorneys at law, 601 Fremont

Morison William C, Empire Lodging House, 433 Fremont

Morse & Co, lumber dealers, 308 Fourth

Moses & Mehan, Capitol Saloon, 402 Fremont

Murphy John M, attorney at law, 23 Brown's Hotel

Myers H, merchant tailor, 211 Fifth

Myers J & Bro, clothing, dry goods, etc, 505 Allen

Nash Brothers & Fritch, restaurant, 209 Fourth

Nash & Emmons, publishers "Evening Gossip," 215 Fourth

Neff Andrew S, groceries, provisions and poultry, 324 Fremont

Nichols & Melgrem, Alhambra Saloon, 433 Allen

Noble James, U S Restaurant, 312 Allen

Nowell & Curry Misses, restaurant, 521 Fremont

O'Brien Mary Mrs, restaurant and lodgings, 617 Allen

O'Melveny & Trantum, attorneys at law, Gird's Building

Otis A D & Co, lumber, doors, blinds, sashes, crockery, paints and oils, 414 Fremont

Parke J G, civil engineer, and U S deputy mineral surveyor, 526 Fremont

Parker A H, U S deputy mineral surveyor, 430 Allen

Parsons & Redfern, mining and general agents, 431 Fremont

Patch J B Prof, principal Tombstone Academy, Fitch

Peacock Edwin R, house and sign painter, 518 Allen
 Peel B L, attorney at law, 317 Allen
Perkins Lanson W, Grand Hotel Bar, 426 Allen
 Peters Mary Mrs, lodgings, 105 Fourth
 Petro A & Co, restaurant, 429 Allen
 Pilsbury C J, manager Hopkins Mill Co, Watervale
Pima County Bank, (agency) P W Smith manager, corner Allen and Fourth
 Pioneer Soda Works, Charles Riley proprietor, Tough Nut
Post Office, John P Clum postmaster, Edward C Lane assistant postmaster, 220 Fourth
 Power J D, dealer in mining properties, Fourth
 Price Lyttleton, attorney at law and district att'y Cochise Co
 Price Rodman M jr, civil engineer and U S deputy mineral surveyor, 508 Allen
 Pridham George, public administrator Cochise Co
 Prouty Jackson, dealer in mines, Grand Hotel
 Pump William, liquor saloon, 702 Allen
 Pyle B W, auctioneer and commission merchant
 Quigley B C, notary public and real estate and insurance ag't, 305 Fourth
 Quigley & Shearer, electric rods, 305 Fourth
 Quong on Chong, Chinese goods, 225 Allen
 Rafferty & Co, wholesale and retail liquors, 521 Allen
 Rahn F, mining engineer and assayer, Allen
 Randle W C, vegetables, butter, and eggs, 413 Fremont

Recum H C, shoe maker, 320 Allen
Reed Theron, attorney at law, 414 Allen
 Rehbein Emil, private school, Sixth
Reilly James, attorney at law and notary public, 434 Frem't
Rickard William T, assayer, mining engineer, and metallurgist, Tough Nut
Riggs T C & Co, publishers Territorial Expositor
 Riley Charles, prop'r Pioneer Soda Works, Tough Nut
 Ritter & Ream, undertakers, 613 Allen
 Roberts Emma Mrs, florist, 919 Fremont
 Roberts & Giles, carpenters and builders, 915 Fremont
 Robertson & Clarke, liquor and billiard saloon, 217 Fifth
Robinson James S, attorney at law, Allen
 Rodecker & Kelly, restaurant and liquor saloon, 513 Allen
 Rogers Tempe S Mrs, restaurant, 517 Allen
 Rose John W, carpenter and builder, 308 Fifth
 Rosendorf Michael, dry goods and clothing, 405 Allen
 Russ House, Anderson & Schmidt proprietors, corner Fifth and Tough Nut
 Ryan N Mrs, San Francisco Lodging House, 233 Allen
Safford, Hudson & Co, bankers, 206 Fifth
 Saul & Welmot, blacksmiths and carriage makers, Allen
 Schmieding Herman, watchmaker and jeweler, 420 Allen
Schnider E P, pastor Church of the Sacred Heart, Safford
 Schoenfeld & Heyman, furniture and bedding, 211 Fourth

E. IRVINE & CO., PHOENIX, A. T., GENERAL MERCHANDISE.

Seawell Thomas, physician, 431 Fremont
Shaffer & Lord, general merchandise and commission merchants, cor Fremont and 5th
Shewbridge Peter, boarding and lodging, Seventh
Sichel Gustave W, dentist, 433 Fremont
Silent Charles, attorney at law, 601 Fremont
Sippy Benjamin, city marshal
Smith Charles M, groceries, vegetables and fruits, 411 Fremont
Smith F M, attorney at law, Allen
Smith P W, general merchandise, cor Allen and Fourth
Solomon H, assistant manager Pima County Bank, and insurance agent, cor Fourth and Allen
Southard J B, attorney at law, and district court commissioner, 113 Fourth
Spangenberg G F, gun and locksmith, 212 Fourth
Spicer Wells, attorney at law, notary public, U S commissioner, and commissioner of deeds for California, 218 Fifth
Stephens C C, attorney at law
Stewart G W Mrs, millinery and dressmaking, 425 Fremont
Stigliano O, liquor saloon and chop house, 212 Sixth
Stinchfield Ammi, Humboldt Lodgings, 616 Allen
Street Webster, attorney at law and notary public, 113 Fourth
Stump Jonathan W, attorney at law and notary public, 327 Fremont
Stumpf Joseph, bakery, 215 Fifth

Sycamore Spring Water Co, A W Johnston superintendent, Gird's Building
Tappeiner John, shoemaker, 207 Fourth
Tasker Mary, dress making and fancy goods, 506 Fremont
Tasker & Pridham, general merchandise, corner Fifth and Allen
Territorial Expositor, T C Riggs & Co, publishers
Thabard Peter & Co, bakery, 603 Allen
The Nugget, H M Woods & Co, publishers, Fremont
Thomas Charles N, corral and feed stable, corner Fremont and Second
Thompson D R M, harness and saddlery, 321 Allen
Thurmond Philip M, attorney at law and notary public, 213 Fifth
Tombstone Academy, Prof J B Patch, A M, principal, Fitch
Tombstone and Charleston Ice Co, Richard Gird president, F A J Diss agent, Tough Nut
Tombstone Epitaph, Clum & Reppy publishers, 327 Fremont
Tombstone Foundry and Machine Shop, T S Harris, proprietor, cor First and Safford
Tombstone Mining Exchange, T E Sumner president, T R Sorin vice-president, Robert Eccleston treasurer, J P Welles secretary, 329 Fremont
Tomlinson William W, liquor saloon, 314 Allen
Trantum O O, attorney at law and notary, Gird's Building
Tritle & Murray, stock and mining brokers, 508 Allen

Turn-Verein Hall, Fourth Tuttle H H, livery and feed stable, Fremont

Uebel A & Co, Lion Brewery and liquor saloon, 517 Allen

Union News Depot, Salomon Israel proprietor, 222 Fifth

Union Soda Works, V Mand proprietor, corner Second and Tough Nut

Vallery Antoine, Palace Chop House, 531 Allen

Vickers J V, real estate and insurance agent, and notary public, 423 Fremont

Vimont J N, general broker, 209 Fifth

Vogan James, liquor saloon, 634 Allen

Voisard E P, assayer, notary public and negotiator mines, 508 Allen

Voorhees Mary, shirt maker, 737 Allen

Walker A M, attorney at law and commissioner of deeds

Walker Frank, city assessor

Walker George W, cigars and tobacco, 533 Allen

Walker & Haymond, attorneys at law

Wallace A O, justice of the peace, city recorder, and notary public, 309 Fourth

Wallace Thomas, mining broker and real estate agent, Allen

Walsh & Co, restaurant, 614 Allen

Walsh & Shannon, restaurant, 435 Allen

Wang Woo Lung, Chinese goods, 111 Fourth

Warren Emma Mrs, fruits, candies, cigars and tobacco, 425 Allen

Waterman & Goodrich, stoves and tinware, 207 Sixth

Way Up Lodging House, Charles C Blair proprietor, 725 Allen

Wehrfritz & Tribolet, Golden Eagle Brewery and liquor saloon, corner Allen and Fifth

Wells, Fargo & Co, Marshall Williams agent, 427 Allen

Westerman & Ruhlin, blacksmiths and wagonmakers, 415 Fremont

Western Union Telegraph Co, Frank Kingsbury manager, 420 Allen

Williams Marshall, stationery, cigars, tobacco, etc, money broker and agent Wells, Fargo & Co, and Arizona Mail and Stage Line, 427 Allen

Williams & Davis, attorneys at law, Gird's Building

Woods Henry M, under-sheriff Cachise Co, 306 Fifth

Woods H M & Co, publishers "The Nugget," Fremont

Woods M L Mrs, restaurant, 426 Fremont

Young John S, restaurant, 525 Allen

Young L Mrs, restaurant, 514 Allen

Zeckendorf William, dry goods, clothing, etc, Fremont

Tonto Basin,

Gila Co, 40 miles n of Globe.

Adams John, station keeper

Tres Alamos P O,

Cachise Co, 40 miles n e of Tombstone.

Dunbar Thomas, postmaster and station keeper

E. IRVINE & CO., Phoenix, A. T., **AGRICULTURAL IMPLEMENTS.**

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

Tubac P O,

Pima Co, 55 miles s of Tucson, is the third oldest town in the United States; following San Augustine, Florida, founded in 1513, and Santa Fé, New Mexico, 1540. The earliest published account known to exist (1549) gives Tubac as the only established town or city of any importance in El Desierto or La Papaguera, and states that it was then inhabited by a people much in advance of their neighbors. We again hear of it in 1600 as being the largest city in Novum Mexicum, with the exception of Santa Fé, and the resting place for the trains to recruit on their journeys from Alamos in Sonora to that place. It was garrisoned by troops under Spanish, Mexican, and American rule, to protect the inhabitants from the raids of the savage Apaches who infested this region, and embraced every opportunity to plunder and kill. In the vicinity are to be found the remains of arastras and smelters, together with large dumps of ore-slag, which proclaim it to have been the center of extensive mining operations when occupied by the Spaniards and Mexicans. The land in the upper Santa Cruz valley, in which the town is situated, is very rich; but owing to scarcity and uncertainty of water, agriculture on a large scale has generally proved a failure. For raising stock of all kinds this section is unsurpassed, and the clim-

ate is one of the most delightful in the world.

Mercer T Lillie, general merchandise, postmaster, justice of the peace and notary public

Tucson P O,

Pima Co, county seat, and incorporated city of 9,000 inhabitants, is the chief commercial town of Arizona, being eligibly situated for trade on an elevated plateau in the valley of the Rio Santa Cruz, in the midst of a productive country, and on the line of the Southern Pacific Railroad, in latitude 32 deg. 14 min., longitude 110 deg. 56 min., and having an altitude of 2,542 feet above the sea. The locality is about midway between the Gila river and the Mexican border, being about 65 miles from each in a direct line, and by the railroad is 247 miles east of Yuma, and 978 miles from San Francisco. The valley of the Santa Cruz leads into the Mexican State of Sonora, with fine wagon-roads to Hermosillo, Altar, and other large towns of that country. From its favorable position it commands a large trade, with the prospect of becoming a railroad center of importance. The location was selected by the Spaniards fully 300 years ago, in extending their frontier settlements and missions, making Tucson, then called Quequeson, one of the oldest towns of the United States, ranking with St. Augustine, Florida,

and Santa Fé, New Mexico. As a frontier town and military post it has experienced many vicissitudes: in constant war with the Apaches, at last standing alone, the only place occupied by the Mexicans in the region south of the Gila, since ceded to the United States. But it is not known that the occupation was continuous previous to 1754, when the Presidio of Tucson was established as a protection to the Mission of San Xavier del Bac, and the settlements of the valley of the Santa Cruz. In 1847 the place was occupied for a short time by the American forces known as the Mormon Battalion, under Colonel Philip St. George Cooke, and thenceforward was on the route of emigrant travel from the 'States' to California. In 1849 it was a welcome resting-place to the weary pilgrim who found here his first and last signs of civilization in many hundred miles of travel. The protection, kindness and hospitality of the people of Tucson is vividly remembered by the pioneers of '49, whose fortune led them by the southern route in their journey to the El Dorado of the Pacific. In 1854, by the treaty known as the "Gadsden Purchase," the region was ceded to the United States, and Tucson became an American town, at least in name, if not in character. To every appearance it continued a Mexican pueblo, with buildings of adobe, mere huts of one low story, with flat

roofs, and the ground for the floor, placed with little regard to streets, or order of any kind, and without door-yards, out-houses, conveniences, or ornamentation; and to a great extent the old accidents of location of streets, or passages, continue to mar the city of the present. But the advantages of position have drawn hither a large and profitable trade, which is rapidly changing the ancient pueblo into a modern American city—having been organized as such in 1877. By the census of the place in 1872, the population was estimated at 3,500; by the census of 1880, it was 6,993; and at present it is claimed to exceed 9,000. A great impetus was given it by the discovery of the mines of Tombstone, Bisbee, and other localities contributory to it, and this was accelerated by the completion of the Southern Pacific Railroad, which was finished to this point on the 20th of March, 1880, and to the connection with the Atchison, Topeka and Santa Fé, making a trans-continental road in March, 1881. With daily trains from both extremes of the continent, with the telegraph connecting instantaneous thought with all the world, and with well-equipped lines of stages running to surrounding points and extending into Sonora and the great cities of Mexico, its isolation is removed, and its means of intercommunication and trade perfected. Now it claims all the elements of a

first-class city, with its great mercantile houses, stock exchange, banks, hotels, schools, churches, daily papers, parks, suburban resorts, hospitals, etc., with street railroads, gas and water-works soon to be added. While the general appearance of the city is Mexican, with many low, flat-roofed adobe structures, there are also many of a more pretentious order; and a number of quite elegant residences, costing from \$5,000 to \$10,000, stores, and public buildings of great value. So numerous are the business establishments that it would be difficult to name them. There are two prosperous banking-houses, that of Safford, Hudson & Co., with a branch at Tombstone, being a substantial and well-conducted institution, that would be a credit to any of the great cities of the Union. Five well-conducted hotels furnish excellent accommodation to travelers, and comfortable homes to resident boarders. Two breweries supply the refreshing beverage which is said not to intoxicate, and a vast number of saloons dispense it to the thirsty. Three daily and weekly newspapers—the *Citizen*, *Star*, and *Journal*—furnish the American public with reading matter; and *El Fronterizo* informs the Spanish-speaking population, in their own language, of the events of the day. Besides these are the *Arizona Mining Journal*, published weekly, and the *Arizona Quarterly Illus-*

trated. A steam flouring-mill in the limits of the city, and two propelled by water in the vicinity, afford a market for the grain grower. Here are the United States Custom House, Internal Revenue Office, U. S. Land Office, Surveyor-General's Office, U. S. Depository for the District of Arizona, U. S. Courts, and Signal Service offices. The Public School department was organized in 1872. A commodious school-house has been erected at an expense, including ground and furniture, of about \$10,000. It contains a library valued at \$1,000. The school is presided over by two male and two female teachers, and has enrolled 260 pupils, of which 149 are boys, and 111 girls. The St. Joseph's Academy, conducted by the Sisters of St. Joseph, is a seminary for young ladies, and has 135 pupils. There is also a parochial school for girls under the charge of the Sisters of St. Joseph, and the Saint Augustine parochial school for boys. The number of school children in the district much exceeds the number enrolled, the great majority being Mexicans. A private school is kept by Mr. and Mrs. Silva, which is well attended. At all the schools instruction is given in both English and Spanish. The Tucson Library Association was organized January 1st, 1880, and now has a library of 300 volumes, which is maintained by a fee of \$5 per

annum, or fifty cents a month from those partaking of its benefits. There is also a public library and a railroad library. The religious orders are also represented. The Presbyterian Church was organized in 1877, and has an adobe church edifice with a seating capacity of 250. This was erected in 1879, at a cost of about \$9,000. A Sabbath-school is maintained with seven teachers and fifty scholars. The Methodist Church was organized in 1879. The society has a brick edifice with a seating capacity of 200, which was erected in 1881, at a cost of \$4,000. The St. Augustine Roman Catholic Church is an adobe structure, finished in 1869. A flourishing Sabbath-school is connected with this church. The Mount St. Joseph Novitiate of the Sisters of St. Joseph is one mile from Tucson; has two sisters and seven novices. The St. Mary's Hospital, under the charge of the Sisters of St. Joseph, is located one mile from the city, and has accommodations for forty patients. The hospital, as it now stands, was opened May 1st, 1880. It is a grayish stone building, located at the base of the Tucson Mountains. There are two stories: the lower of which is reserved for county patients, and the upper for those who are able to pay for the care they receive. Another story is to be added as soon as the funds can be secured. Of the social orders

there are organized lodges of Masons, Odd Fellows, Knights of Pythias, Good Templars, and Turn-Verein. The Odd Fellows have erected a fine brick hall, costing \$8,000. There are some pleasant suburban resorts; those which are most frequented being Silver Lake, three miles up the Santa Cruz, and the military post of Camp Lowell, about seven miles north. The lake is a favorite resort for bathers, and is exceedingly well patronized. The climate is pleasant during the greater part of the year, although in summer the weather is at times extremely hot during the day, but generally cool and agreeable at night. The temperature during the year 1880, as recorded by the U. S. Signal Service Observer, was maximum 110 deg. in June; minimum, 14 deg. in January. Range, 96 deg. Mean temperature in winter, 55.5 deg.; mean temperature in summer, 79.6 deg. There are two rainy seasons—one in July and August, when at times considerable rain falls; and again during the months of December, January, and February, when the rains are comparatively light. Stages leave for Arivaca and Oro Blanco tri-weekly; Tubac, Calabasas, Magdalena, Hermosillo, Altar, and Guaymas, semi-weekly; Silver Hill and Silver Bell, semi-weekly; Old Hat District, tri-weekly; Fort Lowell and San Xavier daily, and Riverside weekly.

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

Officers.—John S. Carr, Mayor; Alexander Levin, Mariano Samaniego, Charles T. Etchells, and Albert Steinfeldt, Councilmen; P. R. Tully, Treasurer; Charles H. Meyer, Recorder and Police Judge; Hylor Ott, Assessor; A. G. Buttner, Marshal and Chief of Police.

Adams George F Rev, pastor First Methodist Church, Pennington

Aguirre Pedro, proprietor Arivaca and Oro Blanco Stage Line, Main

Ainsa Santiago, Mexican attorney at law, Meyer

Alcala Guadalupe, groceries, Meyer

Allis Solon M, civil engineer and U S deputy mineral surveyor, Pennington

Altar and Caborca Stage Line, Juan Bojorquez agent, Meyer

American and Mexican Mining Exchange Co, Juan Gange secretary, Meyer

Andrews J D, mining contractor

Araiza Stage Line (Altar), D Velasco agent, Mesilla

Arivaca, Oro Blanco and Altar Stage Line, C Orcillo agent, Main

Arizona and California Lumber Co, J N Mason manager, opp railroad depot

Arizona Citizen, R C Brown publisher, Church Plaza

Arizona Daily Journal, F P Thompson publisher, Church Plaza

Arizona Mining Journal, F P Thompson publisher, Church Plaza

Arizona Quarterly Illustrated, Thomas Gardiner publisher

Arizona Star, L C Hughes publisher, Maiden Lane

Arizona Telephone Co, C H Lord president, G H Bowker superintendent, Congress

Aros Romulo, carpenter, Cushing

Bagnasco Policarpo, photographer, Church Plaza

Baker T J Mrs, dressmaker, Meyer

Barragan R J, groceries and liquors, Convent

Barthelemy C, groceries, Meyer

Bayer & Schwarz, proprietors Levin's Park and Park Brewery, foot Pennington

Beall George T, attorney at law, Pennington

Berger James M, watchmaker and jeweler, and dealer in sewing machines, Congress

Berton Thomas, notary public

Betz Joseph, liquor saloon, Congress

Bojorquez Juan, general merchandise, Meyer, cor Cushing

Bowker George H, manager Arizona Telephone Co, Congress

Bragg A M, blacksmith and wagon maker, Pennington

Brewer Arthur K, assayer, Congress

Brickwedel M H & Co, Pioneer restaurant and liquor saloon, railroad depot

Browder J A, agent eastern manufacturers, Meyer

Brown G W, editor Arizona Citizen, Church Plaza

Brown Henry J, crockery, glass ware, paints, oils, etc, Main

Brown L M, proprietor Grand Hotel, Church

Brown R C, publisher Arizona Citizen, Church Plaza

Brunier Josephine Mrs, liquors, etc, Meyer
 Buck H, confectionery and ice cream saloon, Congress
Buehman H & Co, photographers and dealers Arizona views, moldings, and picture frames, Congress
 Buell James, attorney at law, Meyer
Burns Frank H, prop'r City Market, Congress
 Burroiel Manuel, butcher, Main
 Burton Ambrose, carpenter, McCormick
 Butler Rudolph J, deputy collector U S Internal Revenue, Convent
Buttner A G, city marshal and chief of police, Meyer
 California Lodging House, William H Ruel prop'r, Meyer
 Calles Jesus, butcher, Meyer
Campbell Alexander, attorney at law, Camp
 Carr E M, attorney at law, Pennington
Carr John S, Mayor of Tucson
Carre & Sanders, Cabinet Saloon, Congress
 Carrillo Jesus, butcher, Meyer
 Carrillo L, groceries, Mesilla
 Carrillo Teodosia, groceries and liquors, Meyer
 Carroll James, livery and feed stable, Court
 Carter G C, plasterer, and brick and adobe layer, Congress
 Casamayou & Co, bakery, Camp
 Cason C, restaurant, Meyer
 Cassell Michael, livery and feed stable, Convent
 Caswell Alfred M, produce commission merchant, Meyer
 Chan Tin Wo, Chinese goods, Main
 Chane Charles S, liquor saloon, Meyer

Chapman & Porter, Pima Exchange, Congress
 Childs Samuel C, liquor saloon, Stone Av
Chillson Lorenzo D, notary public, civil engineer, and U S deputy mineral surveyor, Meyer
 Choate & Shepherd, house painters, Congress
 Chong Gee (Chinese) restaurant, Mesilla
 Clarke C W, harness and saddlery, Main
Clum George A, clerk District Court, Court House Plaza
 Cohn Jacob M, dry goods, clothing, etc, Meyer
 Cohn Max, rubber stamps, Mesilla
 Coleman James J, under-sheriff Pima Co, Court House
Colton E F, livery, feed and sale stable, Meyer
Consul for Mexico, Vincente Morales, Meyer
Corbett W J, assistant postmaster, Congress
Cordis Thomas, collector U S Internal Revenue, Convent
 Cory Frank B, liquor saloon
Cosmopolitan Hotel, Paul Moroney proprietor, Main
 Cousins Henry, register U S Land Office
 Cropper W L, carpenter and builder, Church
 Crosley John S, butcher, Meyer
 Cuen Francisco, saddle and harness-maker, Meyer
 Cullum H B, notary public
 Culver John P, civil engineer, assayer, and U S deputy mineral surveyor, Congress
 Czerwinsky T, dry goods, clothing, etc, Main, cor Mesilla
Dachena A, wholesale wines and liquors, Church Plaza

E. IRVINE & CO., PHOENIX, A. T., HARDWARE & TINWARE.

- Dailey C E, receiver U S Land Office
- Davis William C**, stoves, tin-ware and plumbing, Main
- Del Amo Juan, physician, Meyer
- Detoy Charles**, groceries, Church Plaza
- Dixon J E**, proprietor Russ House, Camp
- Dodge Edwin S, lodgings, Pearl
- Donsing Louis, liquor saloon, Mesilla
- Downey Patrick, lodging-house and restaurant, Church Plaza
- Downie William, carpenter and builder, Ochoa
- Drachman & Soto, groceries, liquors, and dry goods, Meyer
- Drake Charles R**, recorder Pima Co, and notary public, Court House Plaza
- Drake F A, proprietor Tucson Limekiln, nr Railroad depot
- Durazo R, blacksmith, Stone av
- Durr Joseph, liq. saloon, Mesilla
- Dyer & Raynes, draymen
- Eagle Steam Flouring Mill**, E N Fish, proprietor, Main
- Earll, Smith, Campbell & Robinson**, attorneys at law, Camp
- Edwards & Brown, mining speculators, Pennington
- El Fronterizo**, Carlos I Velasco publisher, Stone av
- Elias Juan, butcher, Convent
- Erwin C F Mrs, dressmaker, Congress
- Etchells Charles T, blacksmith and wagon-maker, Congress
- Evans B L Mrs, baths, Main
- Evans J W, notary public
- Evans & Co**, architects and builders, Congress
- Excelsior Brewery**, Conrad Mundelius proprietor, 1½ m'ls south Tucson
- Farley H F, district attorney Pima Co, Pennington
- Farley & Pomroy, attorneys at law, Pennington
- Felix Dennis, groceries, liquors, hay and grain, Congress
- Ferrin Joseph, merchant tailor, Meyer
- Field & Morgan**, Iron Wood livery and boarding stable, Sixth Av
- Fish E N**, proprietor Eagle Steam Flouring Mill, Main
- Fitzpatrick W F, carpenter and builder, Congress
- Fleishman Fred & Co**, drugs and medicines, Congress
- Foster George F, liquor saloon, Meyer
- Fraser Robert, liquor saloon, Congress
- Fred Ignatz S, real estate broker, Congress
- Fulton & Duff, real estate ag'ts and collectors, Mesilla
- Gange Juan, secretary American and Mexican Mining Exchange Co, Meyer
- Ganz William**, bakery, confectionery and yeast powder manufacturer, Congress
- Garcia B & Co, general merchandise, Meyer
- Gardiner Thomas**, publisher Arizona Quarterly Illustrated
- Gaynor William H, house and sign painter, Church Plaza
- Germain Eugene**, groceries and produce, Mesilla
- Ghanetto C, groceries, Meyer
- Giffin William, cigar manufacturer, Church Plaza
- Gin Foy & Co, restaurant, Camp
- Goldbaum & Wolf, stoves, tin-ware, hardware, etc, Main
- Goldschmidt Adolph & Co**, gents' furnishing goods, hats and caps, and manufacturer shirts, Congress

Goldschmidt Leo, furniture, carpets and bedding, Meyer
Goldtree Joseph, cigars and tobacco, Congress
Gonzales Pedro, bakery, Meyer
Goodman A, groceries, liquors, flour, grain, and importer Japan teas, Camp
Goodrich Ben, attorney at law and notary public, Pennington
Goodrich & Goodrich, attorneys at law, Pennington
Grand Hotel, L M Brown, proprietor, Church
Gratto M, carpenter and builder, Congress
Gravel M P, carriage and wagonmaker, Ochoa
Graves Walter L, dentist, Church Plaza
Gregg F W, attorney at law, Pennington
Gregory U, pastor Baptist Ch
Groff Charles F, plasterer, and brick and adobe layer, Congress
Gruber Jacob, firearms, ammunition, etc, and gunsmith, Meyer
Handy & Holbrook, physicians, Congress
Harris Helena Mrs, manufact'r ladies' and children's underwear, Meyer
Harris & Sutton, groceries, fruits, etc, Congress
Hart John, proprietor Tucson Transfer Co
Hatch F W, notary public
Haynes John, attorney at law, Meyer
Hereford B H, attorney at law and notary public, Meyer
Hereford & Zabriskie, attorneys at law, Meyer
Hermosillo Stage Line, C Or-cillo agent, Main

Holbrook Charles E, physician, Congress
Holler Sigrid Mrs, manufacturer ladies' and children's underwear, Meyer
Hooper Wm B & Co, oil and wine merchants, Mesilla
Hop Kee, restaurant, Warner
Horton Henry, wines, liquors, and cigars, Main
Horton W B, public administrator Pima Co
Hucke John G, liquor saloon, Mesilla
Hughes L C, publisher "Arizona Star," Maiden Lane
Hunt J A Mrs, restaurant, Railroad Depot
Hurd Isaac N, pastor First Presbyterian Church, Stone Ave
Hutchins Robert A, quartermaster's agent, Pearl
Innes J F & Co, proprietors Pioneer Soda Works, Stone Ave
Iron Wood Livery and Boarding Stable, Field & Morgan proprietors, Sixth Av
I X L Lodging House and Restaurant, P Downey proprietor, Church Plaza
Jacobs B M, cashier Pima Co Bank, Congress
Jacobs Washington M, assayer, Pennington
Johnson C H, proprietor Ventura Lodgings, Camp
Johnson William L, lodgings, Congress
Jouvencau Antonio Rev, assistant pastor St Augustine's Church, Mesilla
Jouvencau Francisco Very Rev, pastor St Augustine's Church, Mesilla
Kane S K, notary public
Katz Marcus, groceries and hardware, and agent California Powder Works, Congress

H. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

Kauffman Isidor, gents' furnishing goods, Meyer
 Kaufman Bros, general merchandise, Meyer
 Kearon R E, manager Western Union Telegraph Co
 Keen Andrew J, U S inspector customs and internal revenue gauger, Main
Knox & Whitney, commission merchants, Church Plaza
 Laurillard A, piano and organ agent
 Leatherwood R N, treasurer Pima Co
 Leboisne & Lester, plasterers, Camp
Lee James, flour mill, 1½ miles south of Tucson, and liquor saloon, Mesilla
 Leventhal A, auctioneer, Mesilla
Levin A, wines and liquors, Meyer
Levin's Park, Bayer & Schwarz prop'rs, foot Pennington
Levin's Park Theatre, Bayer & Schwarz prop'rs, foot Pennington
Lewis Bros, boots and shoes, Congress, cor Main
 Lighthizer Harry B, attorney at law and notary public, Meyer
 Lopes Ramon, shoe maker, Cushing
Lord C H, postmaster, and U S depository public moneys, Congress
Lord & Williams Co, wholesale dealers in general merchandise and country produce, Congress, cor Main
 Lowenstein & Co, dry goods, clothing, etc, Meyer, cor Mesilla
Lyford L Dexter, physician, Congress
 Maguire John, liquor saloon, railroad depot

Manderfeld Wenzel, observer and operator Signal Service U S A, Court House Plaza
 Mansfeld Jacob S, books, stationery, cigars, etc, Congress
Mason J N, manager Arizona and California Lumber Co, opp railroad depot
Mauk George W, deputy collector U S Internal Revenue, Convent
 Maxwell Frederick, manufacturers' agent, Pennington
Mayr & Miltenberg, bakery, Mesilla
 McCoy James, house and sign painter, Main
McFadden & Serrot, groceries, fruits and seeds, Meyer
 McWhorter L, liquor saloon, Mesilla
 Menager H, dry goods, clothing, etc, Meyer
 Meyer Charles H, city recorder, justice of the peace and notary public, Meyer
Meyer L & Co, general merchandise, Meyer, cor Mesilla
 Miller F K, attorney at law, Pennington
 Montañó Cornelia, restaurant, Meyer
Morales Vincente, consul for Mexico, Meyer
 Moreno Juan, proprietor Tubac, Magdalena and Hermosilla stage line, Main
 Morgan Benjamin, attorney at law and notary public, Pennington
Moroney Paul, proprietor Cosmopolitan Hotel, Main cor Pennington
 Moroney Paul & Co, baths, Levin's Park
 Mount St Joseph Novitiate of the Sisters of St Joseph, 1 mile from city

Mountain Ice Company, Hiram Sprague manager
 Mueller Wilhelm M, merchant tailor, Camp
 Mundelius Conrad, proprietor Excelsior brewery, 1½ miles s Tucson
 Munoz Dario, groceries and liquors, Meyer
 Navarro Bernardo, groceries and liquors, Main
 Newlands & Calder, liquor saloon, Congress
 Nilson P F, watchmaker and jeweler, Congress
 Norton Isaac, money broker, Meyer
 Noyes E W, auctioneer and real estate agent
 Noyes & Earll, mastic roofing, Camp
 Noyes & Prince, carpenters and builders, Camp
 O'Donnell P N, proprietor Tucson foundry and machine shop, opp railroad depot
 Oates James W, attorney at law and notary public, Maiden Lane
Orcillo C, stage agent and consular papers for goods shipped to Mexico, Main
Osborn William J, attorney at law, notary public and justice of the peace, Meyer, corner Maiden Lane
Otis A D & Co, lumber, doors, windows, blinds, hardware, crockery, paints and oils, Meyer, cor Pennington
 Ott Hylor, city assessor
Palace Hotel, George Rayfield proprietor, Meyer
 Palmer Horatio B, wagonmaker, Pennington
Pantlind John T, Elite Saloon, Congress
Park Brewery, Bayer &

Schwarz proprietors, foot Pennington
 Parkes & Wills, contractors and builders. Pearl
 Patterson John W, searcher of records and conveyancer, Congress
Paul R H, sheriff Pima County, Court House
 Pearson A Mrs, ladies hairdresser, Congress
Pearson R C, wines and liquors, Congress
 Peguilhan Francois, restaurant, Congress
Perry Joseph C, attorney at law, Pennington
 Petit Alexander P, architect, Jackson
 Phy Joseph, proprietor Tucson Water Works
Pima County Bank, P R Tully president, B M Jacobs cashier, Congress
 Pioneer Soda Works, J F Innes & Co, proprietors, Stone Av
 Plummer Paul, watchmaker and jeweler, Congress
 Pomroy Everett B, U S district attorney Territory of Arizona, Pennington
Porter A A, proprietor Porter's Hotel, Railroad Depot
Post Office, C H Lord postmaster, W J Corbett assistant postmaster, Congress
Protopsaltis A & C, proprietors Union Restaurant, Meyer
 Protopsaltis John, restaurant, Levin's Park
 Pusch & Zellweger, butchers, Mesilla
 Quinlin James, blacksmith and wagon maker, Meyer
 Quinn & Wick, lodgings, Camp
 Quong You Chong, Chinese goods, Pearl

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

- Ramirez Ramon, groceries and liquors, Meyer
 Ravisioni Daniel, restaurant, Mesilla
Rayfield George, prop'r Palace Hotel, Meyer
Read Will S, searcher of records, notary public, and conveyancer, Congress
 Reardon James, prop'r Tucson City Stage Line
 Redding Matthew J, club rooms, Camp
Rickey Joseph F, proprietor Silver Lake Race Course, bath houses, and restaurant, Silver Lake, 1½ miles s of Tucson
Risley E A, official court reporter and clerk Board of Supervisors Pima Co, Court House Plaza
Robinson James S, attorney at law, Camp
 Robles B, general merchandise and livery stable, Meyer
 Roca M G, groceries, Main
 Roman John, attorney at law
 Romero Demetrio, groceries, Congress
 Rose William, mining and mechanical engineer
 Rosenstock Albert, barber, Congress
 Roskrige George J, civil engineer, notary public, and U S deputy mineral surveyor, Maiden Lane
Rothschild Otto, candy factory, Congress
 Rousseau Charles, restaurant, Ochoa
 Ruel William H, California lodging house, Meyer
 Ruelas Placido, groceries and liquors, Meyer
 Rusk W E, livery and feed stable, Pennington
Russ House, J E Dixon, proprietor, Camp
 Russell Henry D, marble works, Congress
Ryan Thomas F, commission merchant and distiller's agent, Congress
Safford, Hudson & Co, bankers, Congress
Salazar Baudelio, assayer, metallurgist and mining engineer, Meyer
 Salazar José, groceries and liquors, Meyer
 Salpointe John B, Rt Rev (R C) Bishop of Arizona, Church
 Sampson Amasa B, cigars and tobacco, and money broker, Meyer
 Schaaf Philip, butcher, Meyer
 Schayer Herman, wines and liquors, Camp
 Scott William A Jr, insurance agent, Congress
Scott William F, U S deputy collector of customs, Main
 Seligmann C & Co, groceries, wines and liquors, Meyer
 Sheldon & Baston, liquor saloon, Meyer
Signal Service U S A, Wenzel Manderfeld observer and operator, Court House Plaza
 Silent Charles, attorney at law, Pennington
 Silver Bell Stage Line, William Wheatley proprietor, Pennington
 Silver Hill and Silver Bell Stage and Fast Freight Co, U J Tuska manager, Meyer
 Silver Lake Race Course, Joseph F Rickey prop'r, 1½ miles s Tucson
 Sinclair David A, liquor saloon, Mesilla
 Smith Edward J, undertaker and embalmer, Church

Smith Ferdinand A, house and sign painter, Church

Smith F M, attorney at law, Camp

Snyder M S, agent Silver Bell Stage Line, and notary public

Sorgatz B, restaurant

Sparrow Frederick A, Napa Shaving Saloon, Congress

Sprague Hiram, manager Mountain Ice Co

Sresovich Joseph, wholesale groceries and produce, Meyer, and restaurants, Church Plaza and Railroad Depot

St Joseph's Academy, Mesilla

St Mary's Hospital, one mile from city

Stanford Frederick, attorney at law, Pennington

Stewart Wm H, barber, Meyer

Stiles Theodore L, attorney at law and District Court Commissioner, Pennington

Stilwell W H, Associate Justice Supreme Court and Judge First Judicial District, Court House

Stone George, shoe maker, Meyer

Suastegui Rafael, watch maker and jeweler, Church

Sullivan M J, architect and builder, Pearl

Sweetland B R & Co, spring bed and mattress manufacturers, and dealers in pictures, frames, paints, oils, etc, Congress

Talamonte P & Co, restaurant, Church Plaza

Tapia José M, groceries and liquors, Convent, cor Cushing

Tapie Bros, liq'r saloon, Meyer

Tapie G, liquor and billiard saloon, Meyer

Teeples Robert E, liquor and billiard saloon, Meyer

Terrazas I, blacksmith, Stone av
The Singer Manufacturing Co, sewing machines, Congress

Thompson F P, publisher Arizona Daily Journal and Mining Journal, Church Plaza

Tiffany W H, mining and mechanical engineer

Topliff James F, notary public, Congress

Townsend Bros, produce and poultry, Congress

Trabucco Joseph, restaurant, Mesilla

Tucson Boot and Shoe Manufacturing Co, Meyer

Tucson City Stage Line, James Reardon proprietor

Tucson Foundry and Machine Shop, P N O'Donnell prop'r, opposite Railroad Depot

Tucson Ice Co, Paul Moroney & Co, proprietors, Levin's Park

Tucson Library Association, Mrs P L Stiles librarian, Pennington

Tucson Painting Co, carriage, house, sign, and ornamental painters, Congress

Tucson Transfer Co, John Hart proprietor, Camp

Tucson Water Works, Joseph Phy proprietor

Tully, Ochoa & Co, general merchandise, Main

Tully P R, president Pima County Bank, and city treasurer, Congress

Turner Jared, physician and surgeon, Meyer

United States Custom House, W F Scott deputy collector, A J Keen inspector, Main

United States Depository of Public Moneys, C H Lord, Congress

United States District Attorney, E B Pomroy, Pennington

United States Internal Revenue, Thomas Cordis collector, Convent

United States Land Office, Henry Cousins register, C E Dailey receiver

United States Military Telegraph, Wenzel Manderfeld operator, Court House Plaza

United States Surveyor-General, John Wasson, Main

Uribe Guillermo, butcher, Meyer

Van Fleet M B, agent Wells, Fargo & Co, Camp

Van Pelt Samuel K, mining contractor

Van Voorhies W, attorney at law

Velasco Carlos I, publisher "El Fronterizo," Stone Av

Velasco D, commission merchant, and agent Araiza Stage Line, Mesilla

Ventura Lodgings, C H Johnson proprietor, Camp

Vila A Mrs, sewing machines, and ladies' and children's underwear, Camp

Vila & Douville, tailors, Camp
Warner Solomon, flour-mill and ore-crusher, Pueblito 1 mile west Tucson

Warren A L, groceries and fruits, Meyer

Wasson John, U S Surveyor-General Territory of Arizona, Main

Watkins M J, editor "Arizona Daily Journal," Church Plaza

Watson C P V, physician, Pennington

Weihls Albert, shoemak'r, Meyer

Welisch Theo & Co, dry goods, ladies' and gent's furnishing

goods, millinery goods, etc, Main

Wells, Fargo & Co, M B Van Fleet agent, Camp

Western Union Telegraph Co, R E Kearon manager, Congress

Wetmore Edward L, real estate agent, Meyer

Wetmore & Dean, assayers, ore smelters and samplers, Meyer

Whaling Michael, attorney at law, Pennington

Wheatley William, livery and feed stable and proprietor Silver Bell Stage Line, Pennington

Whitaker John C, shoemaker, Camp

White W J, dentist, Congress
Whitton & Co, liquor and billiard saloon, Congress

Wicks Moye, attorney at law and notary public, Meyer, cor Maiden Lane

Wilkins Alexander, barber, Meyer

Williams J W, contractor and builder

Wing Lee, restaurant, Camp,
Wing On Hong, drugs, Pearl

Witfeld Gustavus, drugs and medicines, Camp

Wood John S, probate judge Pima Co, Meyer

Yarnell Joseph, liquor saloon, Meyer

Yorba Javier F, drugs and medicines, Congress

Yslas Genaro, groceries, Court

Zabriskie J A, attorney at law, Meyer

Zeckendorf L & Co, general merchandise, Main

Zeckendorf William, general merchandise, Main

Zuniga Masimo, barber, Meyer

Vulture P O,

Maricopa Co, 59 miles n w of Phoenix, is a mining town depending for its support upon the Vulture Mine, which has an eighty-stamp mill in constant operation, and is regularly shipping a large amount of bullion. Daily communication with Phoenix and Prescott is maintained by stage via Seymour

Barnes John, hotel
Best & Dennis, liquor saloon and feed yard
Garress Gus, carpenter and builder

Genung Charles E, butcher
Gifford J H, justice of the peace
Gonzales Philippi, liquor saloon
Grant E O & Co, general merchandise
Johnson Thomas E, liq'r saloon
Kirkland E E, general merchandise, and agent Wells, Fargo & Co

Lawrence —, physician
Levy I H, general merchandise and postmaster

Noriego Jesus, liquor saloon
Orosco & Hoeffner, liq'r saloon
Rowe W A & Co, general merchandise, and boarding-house
Saville E N, manager Central Arizona Mining Co

Stroud & Peeples, liq'r saloon
Wells, Fargo & Co, E E Kirkland agent
Yarnell William, fruits and vegetables

Walker P O,

Yavapai Co, 18 miles s of Prescott, is a mining camp in Walker District, a section containing many promising

locations, some of which are yielding high-grade ore.

Brannen P B & Co, general merchandise
Davidson S A, blacksmith
Hughes H H, postmaster
Milliken J J, hotel
Shelton C Y, mining

Walnut Grove,

Yavapai Co, 20 miles s of Prescott.
Jackson George, justice of the peace

Washington P O,

Pima Co, 78 miles s e of Tucson and 64 miles from Pantano, occupies a beautiful site among rolling hills, in a section noted for immense ledges of good ore, which are being rapidly developed. The view from the town is magnificent, embracing the lofty peaks of the Patagonia Mountains, the lovely Santa Cruz Valley, and the mountain ranges of Sonora. The climate is equable and balmy: the summers not oppressive; while the winters are relieved of the severity of more northern latitudes. It undoubtedly will ere long be a resort for tourists and invalids. The hills are covered with timber, principally oak; and a luxurious growth of nutritious grasses. In the valleys are some excellent agricultural lands. Communication is maintained with the Southern Pacific Railroad by a daily line of stages to Pantano, via Harshaw, connecting at the

E. IRVINE & CO., Phoenix, A. T., GENERAL MERCHANDISE.

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

latter place with a tri-weekly line for Tombstone.

- Bisner J B, bakery
- Bragg H N, notary public
- Clark J W, butcher
- Glander Louis, brewery
- Harrison R, justice of the peace
- Joyner F O, hotel, and notary public
- Joyner J T, postmaster
- Melstedt Sarah Mrs, hotel
- Patrick Isaac, general mdse
- Rogers E S, general mdse
- Salamon Rosala, blacksmith and wagonmaker
- Smith Samuel, laundry
- Wells, Fargo & Co, J R Allen agent

Watervale,

Cachise Co, 2 miles n of Tombstone, was the site of the pioneer store of Tombstone District. Water is abundant, and a considerable quantity is daily taken to Tombstone and sold to the inhabitants. The Hopkins Mill Company have erected at this place a five-stamp mill for crushing ore from the surrounding mines.

Wheatfield,

Gila Co. (See Stanton P. O.)

Whipple Barracks,

Yavapai Co, 2 miles e of Prescott, is a U. S. military post and head-quarters of the Department of Arizona. It was established for the protection of the frontier settlements several years since, when this region was infested by hostile Apaches. It is pleasantly

situated, and is at present garrisoned by one company of troops.

Oliver W G, post trader

Wickenburg P O,

Maricopa Co, 60 miles n w of Phoenix, is named after Henry Wickenburg, the discoverer of the Vulture Mine. For some time the ore extracted from that mine was worked in mills located at this place. Communication is maintained with Prescott, Vulture, Phoenix and Maricopa by a daily line of stages.

Egloff John, blacksmith and wagonmaker

Grant E O, general merchandise

Hodge Thomas, hotel

Klein H W, hotel

Peebles A A, liquor saloon, and feed yard, postmaster, and notary public

Wells Fargo & Co, D C Smith agent

Willcox P O,

Cachise Co, 55 miles n e of Tombstone, on the line of the Southern Pacific Railroad, 86 miles e of Tucson, is a thriving town which has sprung into existence since the completion of the railroad to this point. From here is shipped a large amount of freight destined for Dos Cabezas, Fort Bowie, Fort Grant, Camp Thomas, San Carlos, Globe, and other points. The Sulphur Spring Valley in which the town is situated, is noted for its abundant growth of nutritious grasses, and con-

tains some of the best stock ranches in this part of the country. This, in connection with its proximity to several rich mining districts, insures its future prosperity. In the vicinity is a scope of good agricultural land, and an abundance of water for irrigating purposes can be obtained within a few feet of the surface. Stages leave every other day for Fort Grant, Camp Thomas, San Carlos, and Globe, and tri-weekly for Dos Cabezas and Fort Bowie.

Blaisdell & Johnson, general merchandise

Blinn L W & Co, lumber, doors, windows and blinds

Burke A F, justice of the peace

Campbell J, hotel

Claire Charles, liquor saloon

Clarke & Co, blacksmiths and wagon makers

Cook H B, liquor saloon

Dalton A F, blacksmith and wagon maker

Ellis C D, agent Southern Pacific Railroad

Hanna J B & Co, general merchandise

Hudson & Weaver, butchers

Jones E A, superintendent Norton & Stewart's stage line

Kelly R B, U S deputy mineral surveyor

Kirkland W H, deputy sheriff

Liberman J & Co, general merchandise, and forwarding and commission merchants

Macy & Dalton, carpenters

Maley James, liquor saloon

Norton, Stewart & Co, general merchandise, and forwarding and commission merchants

Norton & Stewart's stage line, E A Jones superintendent

Powers A, hotel

Rohn Hugo, liquor saloon

Rolls J F, news depot, stationery, confectionery, etc

Smith Charles, fruits

Smith Delos H, notary public and U S A quartermaster's agent

Smith F, shoemaker

Steele & McKenzie, corral and feed yard

Thomson H N & Co, forwarding and commission merchants

Tully, Ochoa & Co, general merchandise

Waters James, liquor saloon

Wells, Fargo & Co, E Bonsall agent

Western Union Telegraph Co, E Bonsall manager

Williams T L, postmaster

Williamson's Valley P O,

Yavapai Co, 25 miles n of Prescott on the road to Mineral Park

Breon Stephen, stage station

Horne Louis, liquor saloon, and postmaster

Puntenney Eli, blacksmith

Yuma P O,

The county seat of Yuma Co, 250 miles s w of Prescott, 247 miles w of Tucson, and 731 miles s e of San Francisco, lies on the east bank of the Colorado River, immediately below the junction of the Gila, and opposite the old military post of Fort Yuma. The place was first called Arizona City, building having been commenced soon after

E. IRVINE & CO., Phoenix, A. T., AGRICULTURAL IMPLEMENTS.

the country came into possession of the United States, in 1854. Here was the extreme outpost of civilization—if civilization it could be called—and the extreme angle of our country. Indians, savage, merciless, and degraded; desperadoes, bold, unscrupulous, and adventurous; and pioneers brave, enlightened, and enterprising, have occupied the land, ruling, each as it could—the last class triumphing in the end—and all making a history dark and romantic, with many scenes of blood; many large fortunes made and lost; while the years of its existence do not cover a generation. Here was the natural crossing of the Colorado by travelers from Mexico and the States; and here Col. Cave J. Couatts, then a lieutenant in the U. S. Army, and in command at Fort Yuma, in the fall of 1849 established a ferry, using for the purpose a boat which had been used as a wagon-bed by a Mr. Howard in his journey from Wisconsin to California. The ferry was subsequently owned by a Dr. Lincoln and Col. Glanton, who, with fourteen others, were massacred by the Yuma Indians in March, 1850. For many years this important ferry was conducted by Don Diego Jaeger, who exercised a great influence in the region, and accumulated a large fortune. The population in 1875 was estimated at 1,300, and by the census of 1880 at 1,232. The locality is very favorable

for trade, being at the crossing of the Colorado by the Southern Pacific Railroad. The river is navigable for light-draft steamers, which here receive the goods brought by the railroad, or shipped by sea to the mouth of the river, 165 miles below. The steamers ascend the river a distance of 500 miles; and when the country is more fully developed, such an artery will bring a large trade to Yuma. The site and surroundings are unattractive, having a barren appearance and subject to great heat and aridity, but there is much good soil, only needing the fructifying effects of irrigation to render it exceedingly fruitful, while in the neighboring mountains are mines of great extent and of the richest character. The great heat of summer has been a bar to its rapid growth; but the advantages of its position and the abundant resources of its surroundings will incite to enterprise which will surmount all climatic defects, and make the sandy city the pleasant abode and prosperous mart that nature designed. The town makes little pretense in architectural style, the buildings being mostly of adobe; but it contains some large mercantile establishments, three hotels, a Catholic church, school-house, two newspapers, railroad depot, and the Territorial prison. The latter is situated on a bluff at the junction of the Gila and Colorado rivers, is one hundred and fifty

feet square, and surrounded by a high stockade on three sides, and a cliff on the other. It is built of granite, at present but one story in height, but it is intended to add another when necessity and appropriations warrant. The walls are five feet in thickness at the base and three feet at the top, an iron grating extending through the entire height of wall sixteen feet. It contains twelve cells, constructed of masonry and iron work. The number of prisoners is thirty-four, of which two are confined for life, and the others for terms varying from one to eighteen years. The prison will accommodate about one hundred prisoners. It is very neatly kept and well ventilated. The Colorado Steam Navigation Company maintain a line of steamers on the river, which make trips to the far north as occasion offers and business demands. The Colorado River at Yuma is 550 feet wide, and 13 feet in depth at low water, which rises in flood to the depth of 24 feet in summer from the melting of the snow in the Rocky Mountains. The river is crossed by a railroad bridge 600 feet in length and 20 in width. As everywhere in Arizona, the schools are of the first consideration. A public school is maintained, with 45 pupils, and a private school by Mr. T. Roy, where all the branches of an ordinary education and the English, Spanish, and French languages are success-

fully taught. Besides these is a parochial school for boys, conducted by the Sisters of St. Joseph, which has an attendance of 35 pupils. The Convent of the Sacred Heart was established in 1875. It is an academy for young ladies, and is conducted by the Sisters of St. Joseph. In it are taught all the higher branches and the Spanish and French languages. The average daily attendance is 55. The Church of the Immaculate Conception is an adobe edifice, in cruciform shape, built in 1865, under the direction of the Very Rev. Bishop Salpointe. It is largely attended by the Mexican population, who constitute about two-thirds of the population of the city. The climate of Yuma is remarkably healthful, but the intense heat at times during the summer is a serious inconvenience. The records at the U. S. Signal Service Station give the temperature during 1880 as follows: Maximum, August 16th, 111 deg.; minimum, February 1st, 25 deg.; average for the year, 70.2 deg. During the same year there was no rain until December, when 0.74 fell. Stages leave tri-weekly for Castle Dome Landing, Silver District, and Ehrenberg.

Alcayaga & Ruiz, gen'l mdse,
First

Alexander Henry N, attorney
at law, Main

Amabisca Felipe, butcher, Main
Arizona Sentinel, J F Knapp
publisher, Main

E. IRVING & CO., Phoenix, A. T., FURNITURE, CARPETS AND WALL PAPER.

CHIRARDELLI'S CHOCOLATE The Best.

Baine Christopher, wagon maker, Main
 Barney William C, gunsmith, Main
Bonine E A, photographer
 Brindley C H, justice of peace
 Burke William H, proprietor American Hotel, Gila
 Chaucot J M Rev, pastor Church of the Immaculate Conception, Main
Colorado Steam Navigation Co, Railroad Depot
Convent of the Sacred Heart, Main
Douglas H H, proprietor Silver District Stage Line
 Forrest M E Mrs, fruits, confectionery, etc, Main
Furrer Leopold, liq'r and billiard saloon, Main
 Gawley R C, blacksmith
 Ginocchio G & Co, gen'l mdse and fruits, Main
Hanes William, liq'r and billiard saloon, Main
Horner Christopher, machinist, blacksmith, and wagon maker, Gila
 Hughes Thomas, liquor and billiard saloon, Main
Knapp J F, publisher Ariz na Sentinel, Main
Knight George M, stationery, cigars, tobacco, etc, and attorney at law, Main
 Levy Isaac, prob. judge Yuma Co
Lorette Althee, gen'l merchandise, Maiden Lane and Third
 Lyons Isaac, gen'l mdse, Main
Martin George, drugs, medicines, stationery, etc., Main
 Miller Walter, surveyor Yuma Co
 Mullan L A, attorney at law
 Napoleon Nicanor, shoe maker, Main
 Olaeta Concepcion, manufacturing jeweler, Main

Olaeta J P, liquor saloon, Main
 Onofre Daniel, blacksmith and wagon maker, Main
Purdy Samuel Jr, publisher Yuma Free Press, attorney at law, and recorder Yuma Co
Ringwald G A, harness and saddle maker, Gila
Roy Theophilus, private eclectic school, Gila
 Rubottom C E, watch maker and jeweler, Main
 Salcido Pedro, liq'r saloon, Main
 Schumaker Henry, barber, Main
Scott Charles W, liquor and billiard saloon, Main
Signal Service U S A, C A Smith observer
Silver District Stage Line, H H Douglass proprietor
Sisson, Wallace & Co, general merchandise, Main
 Soeur Andrew, butcher, groceries, and restaurant, Main
 Sun Ho Chung, bakery, First
 Taggart J H, physician, and coroner Yuma Co
Territorial Prison, C V Meeden superintendent,
 Tonge W H, justice of peace
 Townsend O F, notary public and U S deputy mineral surveyor
Tyner Andrew, sheriff Yuma Co, and proprietor Palace Hotel, Main
Weaver Henry, prop'r Southern Pacific Railroad Hotel
Wells, Fargo & Co, F B Wightman agent
Western Union Telegraph Co, W H Mahoney manager
Wightman F B, postmaster, and agent Wells, Fargo & Co
 Yet Hing, bakery
Yuma Free Press, Samuel Purdy Jr publisher, Main

ARIZONA

Classified Business Directory,

Arranged Alphabetically by Business and Towns.

Academies.

(See Schools.)

Agents.

(See Respective Heads.)

Agricultural Implements.

Sisson, Wallace & Co. Benson
Herrera F & Co. Charleston
 Springer & Hackes. " "
 Zeckendorf L & Co. " "
 Buckalew & Ochoa Florence
 Collingwood Joseph & Co. " "
 Smith & Watzlavzick. " "
 Buckalew & Ochoa Globe
Eaton & Bailey " "
Kellner E F " "
 The Globe Mercantile Co. " "
Van Wagenen G S " "
Harlow C E & Co. Harshaw
Farrington R E & Co. Maricopa
 Vandever Bros. " "
Kellner E F & Co. McMillen
Kellner E F & Co. Nugget
 Creamer & Abbott Phoenix
 Ellis Gus & Co. " "
 Goldman & Co. " "
Irvine E & Co. " "

Bashford L & Co. Prescott
Buffum W M " "
 Goldwater M & Son " "
 Head C P & Co. " "
 Goldman & Co. Tempe
 Hayden Charles T. " "
Shaffer & Lord Tombstone
 Smith P W. " "
Lord & Williams Co. Tucson
 Meyer L & Co. " "
 Tully, Ochoa & Co. " "
 Zeckendorf L & Co. " "
 Zeckendorf William. " "
 Liberman J & Co. Willcox
 Sisson, Wallace & Co. Yuma

Apothecaries.

(See Druggists.)

Architects.

Evans & Co. Tucson
 Petit Alexander P. " "
 Sullivan M J. " "

Assayers.

Gray John W, Chiricahua City
 Eaton C B. Dos Cabezas
 Hill Elmer. " "
 Kimbell Charles J. Galeyville

E. IRVINE & CO., PHOENIX, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

Forman J H.....Globe	Baker Albert C.....Phoenix
Kennedy E O....."	Bolan P J....."
Lanzweert G.....Greaterville	Campbell Joseph....."
Williamson H...."	Cox Frank....."
Keesing S.....Harshaw	Hancock W A....."
Langley W A....Mineral Park	Lemon & McCabe....."
Baker J D.....Pinal	Porter DeForest....."
Brown P A....."	Tweed & Hancock...."
Dodge M M....."	Wilkes William....."
Merritt W H....."	Davis James W.....Pinal
Blake & Co.....Prescott	Reymert J De Noon...."
Stahl Edward....."	Reymert J D Jr....."
Duval Charles J..Tombstone	Stone W R....."
Hayne Arthur....."	Cartter Harley H....Prescott
Kearsing Henry W. "	Churchill & Masterson "
Manning Joseph G. "	French C G W....."
Rahn F....."	Hargrave J P....."
Rickard William T "	Marcou S G....."
Voisard E P....."	Masterson Murat....."
Brewer Arthur K.....Tucson	McGrew William H.. "
Culver John P....."	Howard John....."
Jacobs Washington M.. "	Rush Charles B....."
Salazar B....."	Rush & Wells....."
Wetmore & Dean....."	Tucker Gideon J....."
	Tucker Paul....."
	Wells Edward W...."
	Clarke William F.....Safford
	Hayes James....."
	Morris James....."
	Osborn N....."
	Miller W G.....Silent
	Wickersham D W.Solomonville
	Rudd W R.....St John
	Abbott Grafton St L Tombstone
	Anderson N D....."
	Aram Eugene W...."
	Berry George G... "
	Burke Francis G... "
	Campbell Alexander "
	Colby P T....."
	Davis L H....."
	Drumm Thomas J.. "
	Earll, Smith, Camp- bell & Robinson.. "
	Fitch Thomas....."
	George A G P....."
	Gregg V A....."
	Hayne Marcus P... "

Attorneys at Law.

Savage W H.....Bisbee
Blakeley W G.....Cerat
Ashenfelter S M.....Clifton
Fitch Frank.....Florence
Oury Granville H.... "
Smith Horace L..... "
Summers H B..... "
Wratten George L... "
Broughton W W....Galeyville
Carr David P..... "
Sessions C B..... "
Brown Oscar M.....Globe
French W H..... "
Hicks John C..... "
Smith L K..... "
Swasey Gustavus A.... "
Van Slyck Julius W.... "
Bartlett L.....Mineral Park
Davis & Stephenson "
Hamilton Samuel. "
Alsap John T.....Phoenix

Howard James G. Tombstone
 Hutton J F. "
 Jones Harry B. "
 Lewis J T. "
 Lowrey A C. "
 Lucas J H. "
 Miller John M. "
 Morgan & Silent. "
 Murphy John M. "
 O'Melveny & Tran-
 tum "
 Peel B L. "
 Price Lyttleton. "
 Reed Theron. "
 Reilly James. "
 Robinson James S. "
 Silent Charles. "
 Smith F M. "
 Southard J B. "
Spicer Wells "
 Stephens C C. "
 Street Webster. "
 Stump J W. "
 Thurmond Philip M "
 Trantum O O. "
 Walker A M. "
 Walker & Haymond "
 Williams & Davis. "
Ainsa Santiago Tucson
 Beall George T. "
 Buell James. "
 Campbell Alexander. "
 Carr E M. "
 Earll, Smith, Campbell
 & Robinson. "
 Farley H F. "
 Goodrich Ben. "
 Goodrich & Goodrich. "
 Gregg F W. "
 Haynes John. "
Hereford & Zabriskie. "
 Hughes L C. "
 Lighthizer Harry B. "
 Miller F K. "
 Morgan Benjamin. "
 Oates James W. "
 Osborn William J. "
 Perry Joseph C. "

Pomroy Everett B. Tucson
 Robinson James S. "
 Roman John. "
 Silent Charles. "
 Smith F M. "
 Stanford Frederick. "
 Stiles Theodore L. "
 Stillwell W H. "
 Van Voorhies W. "
 Whaling Michael. "
 Wicks Moye. "
Zabriskie J A. "
 Alexander Henry N. Yuma
 Knight George M. "
 Mullan L A. "
 Purdy Samuel Jr. "

J. A. ZABRISKIE.

B. H. HEREFORD.

HEREFORD & ZABRISKIE,

Attorneys and Counsellors at Law,

AND

NOTARIES PUBLIC,

MINING AND LAND LAW A SPECIALTY,

Office on MEYER ST., opposite Palace Hotel,
Tucson, Arizona.

Auctioneers.

Fisher J L. Prescott
 Pyle B W. Tombstone
 Quigley B C. "
 Vickers J V. "
 Leventhal A. Tucson
 Noyes E W. "

Bakers.

Krocher John. Bisbee
 Low Ket. Charleston
 Vaughn Thomas Galeville
 Wright M A Mrs. Globe
 Bauman & Thomas. Harshaw
 Heinson Jacob. Phoenix
 Scherrer Carl. "
 Hilge & Co. Pinal
 Hatz Daniel. Prescott
 Caesar Julius. Tombstone
 Geisenhofer O W. "
 Stumpf Joseph. "
 Thabard Peter & Co "

E. IRVINE & CO., PHOENIX, A. T., HARDWARE & TINWARE.

Casamayou & Co.....Tucson
 Ganz William..... “
 Gonzales Pedro..... “
Mayr & Miltenberg... “
 Bisner J B.....Washington
 Sun Ho Chung.....Yuma
 Yet Hing..... Yuma

Banks and Bankers.

Stout, Fisk & Co.....Globe
Bank of Arizona (bra'h)Phoenix
Pinal County Bank.... Pinal
Bank of Arizona....Prescott
 Blake F W..... “
 Pima County Bank
 (branch)..... Tombstone
Safford, Hudson &
Co (branch). “
Safford, Hudson & Co.Tucson
 Pima County Bank.... “

Barbers.

Hutton Edward.....Benson
 Lenhart Jacob.....Charleston
 Pearson Charles W. “
 Cooper W T.....Dos Cabezas
 Barraza Cristobal... Florence
Abraham Jacob.....Globe
Bostick Samuel..... “
 Cooke Belt..... “
 Volkert Julius..... Harshaw
 Dupish Edward..... Phoenix
 Harrison Charles M.... “
 Sturemburg William... “
 Gardiner Hiram..... Pinal
 Lempker William H..... “
 Paine Lewis L..... “
Milligan Thomas....Prescott
 Robinson Benjamin... “
 Tompkins W J..... “
Balurdo V R.....Tombstone
 Baron William..... “
 Helyar Albert..... “
 Lippert & Peyser... “
Moore John H..... “
 Rosenstock Albert....Tucson
Sparrow Frederick A. “

Stewart William H.... Tucson
 Wilkins Alexander..... “
 Zuniga Masimo..... “
 Schumaker Henry..... Yuma

Baths.

Waring & Co.....Galeyville
Abraham Jacob.....Globe
 Brown T.....Harshaw
 Dupish Edward.....Phoenix
 Sturemburg William... “
 Jensen Frederick.....Pinal
 Paine Lewis L..... “
Milligan Thomas....Prescott
 Robinson Benjamin... “
Balurdo V R.....Tombstone
 Baron William..... “
 Evans B L Mrs.....Tucson
 Moroney Paul & Co.... “
 Rickey Joseph F..... “

Bedding.

Kellner E F.....Globe
 Carey William R.....Phoenix
 Porter Geo S & Co... Prescott
 Fonck J L.....Tombstone
 Goldschmidt Leo... “
 Lenoir Joseph..... “
 Schoenfeld & Hey-
 man..... “
 Goldschmidt Leo.....Tucson
Sweetland B R & Co.. “

Beer Importers.

(See also Liquors Wholesale.)

Hooper Wm B & Co (agents
 Blatz, Milwaukee)...Phoenix
Hooper Wm B & Co (agents
 Blatz, Milwaukee)...Tucson
Lord & Williams Co (agent
 Conrad & Co's Bud-
 weiser).....Tucson

Billiard Saloons.

Lewis C G..... Florence

McLellan T H Florence
 Hammon & Taylor Globe
 Hoffman H C "
McNelly William T "
 Brown & Cole Phoenix
 Haeffner & Garcia "
 Hunt J B Pinal
 Sarrick George H "
 Connell Robert Prescott
 Tompkins & Jackson "
Kirwagen & Sines "
 Anderton F S Tombstone
 Campbell & Hatch "
 Robertston & Clarke "
Bayer & Schwarz Tucson
 Tapie G "
 Teeple Robert E "
 Whitton & Co "
 Furrer Leopold Yuma
 Hanes William "
 Hughes Thomas "
 Scott Charles W "

**Blacksmiths and Wagon
Makers.**

Gardiner John J Benson
 Smith, Waddell & Gibbs "
 Tolles George Bisbee
 Ballard William Brigham City
 Nutling R Casa Grande
 Sumner S Castle Dome Landing
 Kraft Jacob Charleston
 Gibbons John Contention
 Boyer P A Dos Cabezas
 Harrington W C Galeyville
 Kelly Thomas "
 Larsen James Gillette
 Burns Cornelius Globe
 Carey H M & Co "
 Graydon Alexander "
 Hyde H R "
 Lundy J C "
 Newell Milton "
 Rocha Alvino "
 Smith Franklin W "
 Wisdom Thomas "

Thompson M W Greaterville
 Moss & McDonald Harshaw
 Besner J B Luttrell
 Brown & Wright Maricopa
 Hughes John Mineral Park
 Bryan J M Phoenix
 Burger John H "
Herrick & Lutgerding "
 Luhrs George H N "
 Slankard & Clarke "
 Caveness & Co Pinal
Hutchinson William T "
 Brecht Frederick G Prescott
 Fisher F G "
 Howey James "
 Kerr Joseph "
 Radzewsky Jacob "
 Ballard William Safford
 Wade Anthony "
 Miller Walter Silent
 Quiros R Solomonville
 Hayden Charles T Tempe
 Carr John Tombstone
 Doland & Brown "
 Dee William "
 Fitzpatrick Jeremiah "
 Graf & Schoeholzer "
 Saul & Welmot "
 Westerman & Ruh-
 lin "
 Bragg A M Tucson
 Durazo R "
 Etchells Charles T "
 Gravel M P "
 Palmer Horatio B "
 Quinlin James "
 Terrazas I "
 Davidson S A Walker
 Salomon Rosala Washington
 Egloff John Wickenburg
 Clarke & Co Wilcox
 Dalton A F "
 Puntenney Eli
 Williamson's Valley
 Baine Christopher Yuma
 Gawley R C "
 Horner Christopher "
 Onofre Daniel "

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

Booksellers.

Jones J J & Co.....Bisbee
 Hammond & Taylor....Globe
 Bauman & Thomas...Harshaw
 Drake W B.....“
 Loring George E.....Phoenix
Israel Salomon....Tombstone
 Mansfeld J S.....Tucson
 Rolls J F.....Willcox
 Martin George.....Yuma

Boots and Shoes.

(See also General Merchandise)

Meyers J & Schein.....Globe
 Cottrell W F.....Maricopa
 Rosenthal Nathan.....Phoenix
 Bray T C & Co.....Prescott
 Kelly & Stephens.....“
 Mason A J.....“
 Randall Charles A....“
 Glover, Charles &
 Co.Tombstone
 Leary John.....“
 Myers J & Bro.....“
 Zeckendorf William “
 Cohn Jacob M,.....Tucson
 Czerwinsky T.....“
 Lewis Bros.....“
 Lowenstein & Co.....“
 Menager H.....“
 Welisch Theo & Co....“

Boot and Shoe Makers.

Forbes H B.....Benson
 Burdick J F.....Galeyville
 Guyago Manuel.....Globe
 Schulze Charles.....“
 Warren Abraham.....“
 Biswanger C.....Harshaw
 Fehr William...Mineral Park
 Olsson Tobias.....Phoenix
 Schmidt Henry.....Pinal
 Zubrod Niklaus.....“
 Coleman George M...Prescott
 Crocker Charles.....“
 Dickinson Charles.....“

Mason A J.....Prescott
 Gehman Henry L..Tombstone
 Gundall John.....“
 Leary John.....“
 Loveland A.....“
 Recum H C.....“
 Tappeiner John....“
 Lewis BrosTucson
 Lopes Ramon.....“
 Stone George.....“
 Tucson Boot and Shoe
 Manufacturing Co...“
 Weihs Albert.....“
 Whitaker John C.....“
 Smith F.....Willcox
 Napoleon N.....Yuma

Bowling Alleys.

Jensen Frederick... Pinal
Bayer & Schwarz...Tucson

Breweries.

Minges Bros.....Alexander
 Siebe & Tribolet.....Bisbee
 Raible John.....Bradshaw
 Mann E Camp Thomas
 Will Peter.....Florence
Pinal Brewery.....Globe
 Nelson S P.....Harshaw
 Deckert John.....Luttrell
Luke & Thalheimer..Phoenix
 Wurch Michael.....“
 Becher Gustav.....Pinal
 Warnke Ernest F.....“
 Raible John.....Prescott
 Urfer & Co.....“
 Glasman & Co.....Safford
 Bernhard & Leptien.Tombstone
 Uebel A & Co.“
 Wehrfritz & Tribolet “
Bayer & Schwarz...Tucson
 Mundelius C.....“
 Glander Lewis...Washington

Bricks and Adobe Layers.

Streeter W C.....Phoenix

Carter G C Tucson
 Groff Charles F "

Brokers.

General.

Parsons & Redfern. Tombstone
 Vimont J N..... "

Mining.

Swasey G A.....Globe
 Culver B F.....Tombstone
 Kimball M H..... "
 Minor B B..... "
 Parsons & Redfern. "
 Power J D..... "
 Prouty Jackson.... "
 Tritle & Murray.... "
 Vimont J N..... "
Voisard E P..... "
 Wallace Thomas... "

Money.

Mills W FHarshaw
 Williams Marshall. .Tombstone
 Norton IsaacTucson
 Sampson A B..... "

Pawn.

Robles B..... Tucson

Real Estate.

(See Real Estate Agents.)

Stock.

Tritle & Murry Tombstone

Builders' Materials.

(See Lumber Dealers.)

Butchers,

Hines Frederick ... Alexandra
 De la Ossa David Benson
 McComas Hiram..... "
 Page & Weldt Bisbee
 Cramer David R ... Charleston

Ayler T W.....Contention
 White & Wood...Dos Cabezas
 Cuen Francisco Florence
 Schoshusen Henry.... "
 Garcia H AGaleyville
 McAllister M & Co. . "
 Frakes J W.....Globe
 Hazard & Kennedy "
 Horse David..... "
 Redman Joseph "
 Candelaria John...Greaterville
 Alison Bros Harshaw
 Darling James..... "
 Ford Charles "
 Vanderlip & Fagan... "
 Lawson Charles B. Mineral Park
 Bartlett John.....Oro Blanco
 Balsz & Kelly.....Phœnix
 Morgnett Bros..... "
 Bailey W L Pinal
 Nichols & Searle..... "
 Acker & Smith.....Prescott
 Hall & Poe..... "
 Marlow George.....Tip Top
 Bacigalupi & Martin.Tombstone
 Clifford Robert "
 Everhardy Jacob... "
 Hickson Henry "
 Hooker Edward R.. "
 Kramer & Emele... "
 Lange & Storm.... "
Burns Frank H.....Tucson
 Burroiel Manuel..... "
 Calles Jesus..... "
 Carillo Jesus..... "
 Crossley John S..... "
 Elias Juan "
 Pusch & Zellweger.... "
 Schaaf Philip..... "
 Uribe Guillermo..... "
 Genung Charles E.... Vulture
 Clark J W... ..Washington
 Hudson & Weaver... Willcox
 Amabisca Felipe..... Yuma
 Soeur Andrew..... "

Cabinet Makers.

Zimmerman William ...Globe

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

Carey William R.....Phoenix
 Jackson & Reed..... "
 Sweetland B R & Co.. Tucson

Candles.

(See also General Merchandise)
 Kane, William & Co. Harshaw
 Hooper Wm B & Co.. Phoenix
 Hooper Wm B & Co... Tucson

Candy Manufacturers.

Rothschild Otto..... Tucson

Carpenters and Builders.

McNair & Miller... Charleston
 Myers L W & Son.. Contention
 Rasinger M..... Dos Cabezas
 Resz Jacob. "
 Anderson Hans A..... Globe
 Palmer & Rice..... "
 Zimmerman William.... "
 Cassidy James..... Harshaw
 McDonald J..... "
 Jackson M M & Son... Phoenix
 Lowell E T..... "
 Roberts & Ryder..... "
 Wiley & Son..... "
 Bley William..... Pinal
 Brown John "
 McDowell J M..... "
 Wright D B..... "
 Garretsee Garret.... Prescott
 Lindenbaum Benjamin "
 Miles James H "
 Throne W H..... "
 Curtis Monroe M..... Safford
 Sims John..... "
 Beauchamp Onesime Tombstone
 Brown & McGregor "
 Roberts & Giles.... "
 Rose John W..... "
 Aros Romulo..... Tucson
 Burton Ambrose..... "
 Cropper W L..... "
 Downie William..... "
 Evans & Co..... "

Fitzpatrick W F..... Tucson
 Gratto M..... "
 Noyes & Prince..... "
 Parkes & Wills..... "
 Sullivan M J..... "
 Williams J W..... "
 Garress Gus..... Vulture
 Macy & Dalton..... Willcox

Carpets and Oil Cloths.

Kellner E F..... Globe
 Irvine E & Co..... Phoenix
 Goldman & Co..... "
 Goldwater M & Son .. Prescott
 Goldschmidt Leo... Tombstone
 Lenoir Joseph..... "
 Schoenfeld & Hey-
 man "
 Goldschmidt Leo..... Tucson

Carriage Makers.

(See Blacksmiths and Wagon
 Makers.)

Chinese Goods.

Yee Lee..... Globe
 Son Yon & Co..... Phoenix
 Wing On Lung & Co.. "
 Ling Chung..... Pinal
 Sang Chong & Co.... Prescott
 Charles Lee Kong.. Tombstone
 Hung Chung..... "
 Quong On Chong... "
 Wang Woo Lung.. "
 Chan Tin Wo..... Tucson
 Quong You Chong.... "

Cigar Manufacturers.

Giffin William..... Tucson

Cigars.

(See also General Merchandise;
 also Liquors.)

* Wholesale.

Furlow W H..... Bisbee

Lenhart Jacob.... Charleston
 Washeim Charles..Dos Cabezas
 Weidenhofer F.....Galeyville
 Chapel G A.....Globe
 *Coover C M & Co.....
 Duryea W H....."
 Hammon & Taylor....."
 Hitchcock & Co....."
 Luedke J H....."
 Brown George E.....Phoenix
 Coats George F....."
 *Hooper Wm B & Co....."
 Loring George E....."
 Rosenthal Nathan....."
 Bones & Spencer.....Prescott
 Brannen P B & Co....."
 Goldwater Henry....."
 Kelly & Stephens....."
 Otis T W....."
 Baldrige W J....Tombstone
 Bourland W A....."
 Carleton Frank H....."
 Chapin S B....."
 Cohn A & Bro....."
 Fortlouis Albert...."
 *Hafford R F & Co....."
 Israel Salomon...."
 Walker George W.."
 Warren Emma Mrs.."
 Williams Marshall.."
 Goldtree Joseph.....Tucson
 Harris & Sutton....."
 *Hooper Wm B & Co....."
 Horton Henry....."
 Mansfeld Jacob S....."
 Sampson Amasa B....."
 Forrest M E Mrs.....Yuma
 Knight George M....."

Civil Engineers.

(See Mineral Surveyors.)

Clergymen.

Girard Eduardo.....Florence
 Brooks E H.....Globe
 Bovard G F.....Phoenix
 Hedgepath J L....."

Meyer William.....Phoenix
 Adams G H.....Prescott
 Deraches J....."
 Green C W....."
 Hunt T C....."
 Windes R A....."
 McIntyre J P.....Tombstone
 Schnider E P....."
 Adams George F.....Tucson
 Gregory U....."
 Hurd Isaac N....."
 Jouvenceau Antonio..."
 Jouvenceau Francisco.."
 Salpointe John B....."
 Chaucot J M.....Yuma

Clothing.

(See also General Merchandise.)

Duryea W H.....Globe
 Myers J & Schein....."
 Cottrell W F.....Maricopa
 Rosenthal Nathan....Phoenix
 Bray T C & Co.....Prescott
 Kelly & Stephens...."
 Glover Charles & Co Tombstone
 Myers J & Bro....."
 Rosendorf Michael.."
 Zeckendorf William.."
 Cohn J M.....Tucson
 Czerwinsky T....."
 Ferrin J....."
 Lowenstein & Co....."
 Menager H....."
 Welisch Theo & Co...."

Collectors.

Blackburn L F.....Tombstone
 Conwell & Davis..."
 Quigley B C....."
 Fulton & Duff.....Tucson

Commission Merchants.

Barnett & Block.....Benson
 Clark & Mundell....."
 Germain & Montgomery "
 Hammond N W....."

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

Webb S M..... “
 Zeckendorf L & Co ... “
 Buckalew & Ochoa. Casa Grande
 Smith & Watzlavzick “
Farrington R E & Co. Maricopa
 Vandever Bros..... “
 Wakefield Bros Pantano
Farrington R E & Co. San Simon
 Kelly R B..... “
 Diss & Co Tombstone
 Neff Andrew S.... “
 Pyle B W “
Shaffer & Lord ... “
 Smith Charles M... “
 Browder J A Tucson
 Caswell A M..... “
 Detoy Charles..... “
 Harris & Sutton “
 Knox & Whitney “
 Ryan Thomas F..... “
 Velasco D “
 Liberman J & Co..... Willcox
 Norton, Stewart & Co.. “
 Thomson H N & Co.... “
 Tully, Ochoa & Co..... “

Commissioners of Deeds.

Swasey Gustavus A.... Globe
Spicer Wells..... Tombstone
 Walker A M. “
 Topliff James F..... Tucson
 Alexander H N Yuma

Confectionery.

(See also General Merchandise-)

Luedke J H..... Globe
 Hammon & Taylor..... “
 Coats George F..... Phenix
 Wharton H H..... “
 Bones & Spencer..... Prescott
 Herzog E..... “
 Otis T W..... “
 Wager Edward G..... Tip Top
 Carleton Frank H.. Tombstone
 Earl & Banning.... “
 Leary J Miss .. . “
 Warren Emma Mrs. “

Buck H..... Tucson
 Rothschild Otto..... “
 Ganz William..... “
 Rolls J F..... Willcox
 Forrest M E Mrs..... Yuma

Contractors.

(See also Carpenters and Builders.)

Mc Nair & Miller .. Charleston
 Myers L W & Son .Contention
 Rasinger M Dos Cabezas
 Resz Jacob..... “
Kellner E F..... Globe
 Palmer & Rice “
 McDonald J..... Harshaw
 Streeter W C..... Phenix
 Jackson M M & Son... “
 Lowell E T..... “
Roberts & Ryder..... “
 Wiley & Son..... “
 Bley William Pinal
 Broadbeck —..... “
 Brown John..... “
 McDowell J M “
 Whitney C L..... “
 Wright D B..... “
 Miles James H Prescott
 Roberts & Giles.... Tombstone
 Rose John W..... “
 Andrews J D (mining). Tucson
 Downie William “
Evans & Co “
 Fitzpatrick W F “
 Gratto M..... “
 Parkes & Wills “
 Sullivan M J..... “
 Van Pelt Samuel K (mining) “
 Williams J W..... “
 Macy & Dalton..... Willcox

Conveyancers.

Marcou S G Prescott
 Carpenter Sidney W. Tombstone
 Fickas B A..... “
 Gray D L “
 Vickers J V..... “

Wallace Thomas... Tombstone
 Fulton & Duff Tucson
 Osborn W. J. "
 Patterson John W. "
 Read Will S. "
 Topliff James F. "

Crockery and Glassware.

(See also General Merchandise.)

Randall Charles A. Prescott
 Otis A D & Co. Tombstone
 Brown Henry J. Tucson
 Otis A D & Co. "

Cutlery.

(See General Merchandise, also
 Hardware.)

Dentists.

Ryder Emmons P. Prescott
 Ingersoll A E. Tombstone
 Jenkins G W. "
 Millard Gustavus A. "
 Sichel Gustave W. "
 Graves Walter L. Tucson
 White W J. "

**Doors, Windows, and
 Blinds.**

* Manufacturers.

Blinn L W & Co. Benson
Blinn L W & Co. ... Charleston
 Avery Frank & Co. ... Galeyville
 Pascholy & Ray. "
 Rogers A. Harshaw
 Gregory James M. Phoenix
Roberts & Ryder. "
 Champion Josiah. Pinal
 Clark & Adams. Prescott
 * Wilson & Haskell. "
Blinn L W & Co. ... Tombstone
 Otis A D & Co. "
Shaffer & Lord. "
 Arizona and California
 Lumber Co. Tucson

Otis A D & Co. Tucson
Blinn L W & Co. Willcox

Dress Makers.

Orr J M Mrs. Globe
 Wilson Alice Miss. "
 Barruth Simon. Phoenix
 Harrison Henrietta Mrs. "
 Goforth M L Mrs. Pinal
 Haight M E Mrs. Prescott
 Bissell C E Mrs. Tombstone
 Borland Mrs. "
 Crowley B A Mrs. "
 Duclos Madam. "
 Stewart G W Mrs. "
 Tasker Mary. "
 Baker T J Mrs. Tucson
 Erwin C F Mrs. "

Drugs and Medicines.

(See also General Merchandise.)

Williams Henry F. ... Charleston
 Heineman & Soyer. Globe
 Hitchcock & Co. "
 Denier Harshaw
 Hyde James J. ... Mineral Park
 Thibodo Oliver J. Phoenix
 Thomson John W. "
 Bluett William H. Pinal
 Kendall George D. Prescott
 Lincoln Oscar. "
 Greer Joseph H. Tombstone
 Hudson Taliafero. "
 Kearney E T & Co. "
 Fleishman Fred & Co. ... Tucson
 Witfeld Gustavus T. "
Yorba Javier F. "
 Martin George. Yuma

Dry Goods.

(See also General Merchandise.)

Myers J & Schein. Globe
 Cottrell W F. Maricopa
 Righetti James P. Phoenix
 Rosenthal Nathan "
 Bray T C & Co. Prescott

E. IRVINE & CO., Phoenix, A. T., GENERAL MERCHANDISE.

Dillon & Kenealy .. Tombstone
 Myers J & Bro..... “
 Rosendorf Michael.. “
 Zeckendorf William “
 Cohn Jacob M..... Tucson
 Czerwinsky T..... “
 Drachman & Soto..... “
 Lowenstein & Co..... “
 Menager H..... “
 Welisch Theo & Co.... “

Electric Rods.

Quigley & Shearer .. Tombstone

Express Agents.

(Wells, Fargo & Co.)

Montgomery James W. Benson
 Stillman H C..... Bisbee
 Wright J A..... Casa Grande
 Field D C..... Charleston
 Cowan A C..... Contention
 Washeim Charles. Dos Cabezas
 Brown George A Florence
 Vosburgh J J..... Globe
 Mills W F..... Harshaw
 McBain L C..... Luttrell
 Vandever Charles... Maricopa
 Jilson L..... Phoenix
 Venton Ascott..... Pinal
 Blake F W..... Prescott
 Bonsall E..... San Simon
 Williams Marshall . Tombstone
 Van Fleet M B..... Tucson
 Kirkland E E..... Vulture
 Allen J R..... Washington
 Smith D C..... Wickenburg
 Bonsall E..... Willcox
 Wightman F B..... Yuma

Firearms.

(See General Merchandise, also Gunsmiths.)

Florists.

Roberts Emma Mrs. Tombstone
 Tuttle H H..... “

Flour Dealers.

(See also Flour Mills, also General Merchandise, also groceries.)

Hammond N W Benson
 Harrison, Fisher & Co... Globe
 Hammond N W... Tombstone

Flour Mills.

Brady P R (Gila) .. Florence
 Owens & Weed (Owens) “
 Ross Nathaniel (Salt River),
 Phoenix
 Smith J Y T (Phoenix). “
 Hyatt & Co (Star) Safford
 Crismon C..... Tempe
 Hayden C T “
 Fish E N (Eagle) Tucson
 Lee James..... “
 Warner Solomon... “
 Jordan Bros Verde

Forwarding Merchants.

Barnett & Block Benson
 Clark & Mundell “
 Germain & Montgomery “
 Hammond N W..... “
 Webb S M “
 Zeckendorf L & Co.... “
 Buckalew & Ochoa. Casa Grande
 Smith & Watzlavzick “
Farrington R E & Co... Maricopa
 Vandever Bros “
 Wakefield Bros..... Pantano
Farrington R E &
Co...... San Simon
 Kelly R B..... “
 Liberman J & Co..... Willcox
 Norton Stewart & Co.. “
 Thomson H N & Co .. “
 Tully, Ochoa & Co.... “

Foundries.

Brown C D Prescott
Harris T S Tombstone
 O'Donnell P N... Tucson

Fruits.

Michea J B Florence
 Weidenhofer F Galeyville
 Chapel G A Globe
 Luedke J H "
 Myers & White "
 Coats George F Phoenix
 Wharton H H "
 Brinkman Delia Mrs. Pinal
 Loeffler & Fiehl "
 Bones & Spencer Prescott
 Herzog E "
 Wager Edward G Tip Top
 Andrews & Co Tombstone
 Baldridge W J "
 Diss & Co "
 Milich F A & Co ... "
 Smith Charles M ... "
 Warren Emma Mrs. "
 Harris & Sutton Tucson
 McFadden & Serrot ... "
 Sresovich Joseph "
Townsend Bros "
 Warren A L "
 Yarnell William Vulture
 Smith Charles Willcox
 Forrest M E Mrs Yuma
 Ginocchio G & Co "

Furnishing Goods.

(See also General Merchandise.)

Myers J & Schein Globe
 Brannen P B & Co Prescott
 Bray T C & Co "
 Dillon & Kenealy .. Tombstone
 Glover Charles & Co "
 Myers J & Bro "
 Zeckendorf William "
 Ferrin J Tucson
 Goldschmidt Adolf & Co "
 Harris Helena Mrs. "
 Holler Sigrid Mrs "
 Kauffman Isidor "
 Vila A Mrs "
 Welisch Theo & Co "

Furniture.

Kellner E F Globe
 Carey William R Phoenix
 Goldman & Co "
Irvine E & Co "
 Porter George S & Co. Prescott
 Fonck John L Tombstone
 Goldschmidt Leo "
 Lenoir Joseph "
 Schoenfeld & Hey-
 man "
 Goldschmidt Leo Tucson
Sweetland B R & Co. .. "

General Merchandise.

(Includes a general assortment of Groceries, Liquors, Dry Goods, Clothing, Boots, Shoes, Hats, Caps, Hardware, Crockery, Drugs and Medicines, Cigars, Tobacco, etc.)

Anders J H Alexandra
Buffum W M "
 Bernard N W & Co ... Arivaca
 Halleck Thomas Aubrey
 Barnett & Block Benson
 Clark & Mundell "
 Germain & Montgomery "
 Sisson, Wallace & Co "
 Zeckendorf L & Co "
Levy D & Co Big Bug
 Miner S E "
 Allen E H & Co Bisbee
 Hardy E T "
 Lazard & Jones "
 Nichols, Lamb & Co "
 Bennett E J & Co ... Bradshaw
Shekels N C & Co. "
 Campbell John Calabasas
 White & Rodgers "
 Franklin A M &
 Co Camp Thomas
 Neese Thomas "
 Wood W V & Co " " "
 Head C P & Co .. Camp Verde
 Buckalew & Ochoa. Casa Grande

E. IRVINE & CO., Phoenix, A. T., AGRICULTURAL IMPLEMENTS.

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

Smith & Watzlav- zick Casa Grande	Katz M D & Co Harshaw
Castle Dome Min- ing and Smelt- ing Co. Castle Dome Landing	Roger Bros "
Young John T Catalina	Snyder D "
Herrera F & Co Charleston	Goldberg H & Son Luttrell
McDowell & Gattrell "	Mc Bain & Seivers "
Springer & Hackes.. "	Farrington R E & Co Maricopa
Zeckendorf L & Co. "	Vandever Bros "
Cowan A C & Bro.. Contention	Chilson Bros Marysville
Goodman L & Co.. "	Collins J B Maxey
Guindania A "	Smith John Y T McDowell
Marks S "	Kellner E F & Co McMillen
Corey & Porter Dos Cabezas	Nichols J R "
Riggs J M "	Rose Patrick "
Smith P W "	Strong George "
Frank Abraham Ehrenberg	Breon & Spear.. Mineral Park
Knox Arthur A Empire	Krider Bros "
Buckalew & Ochoa Florence	Breon & Spear Mohave City
Collingwood, Joseph & Co "	Austin & Dempsey. Montezuma
Smith & Watzlavzick "	Stanley E A. Norton's Landing
Lacy Henry E Fort Apache	Frazier John Nugget
Tully, Ochoa & Co. Fort Bowie	Kellner E F & Co "
Norton & Stewart.. Fort Grant	Hoskins & Thatcher. Oro Blanco
Austin F L Fort Lowell	Ross W J & Co " "
Higbee A C & Co Galeyville	McArthur John M Pajarito
McCandless F & Co. "	Tully, Ochoa & Co Pantano
Rynerson A C & Co. "	Wakefield Bros "
Noonan Daniel Gila Bend	Cohn W E Pelton
Anderson John Gillette	Zeckendorf Wm & Co. "
Buckalew & Ochoa Globe	Asher M & Bro Phoenix
Eaton & Bailey "	Ellis Gus & Co "
Ellis H & Co "	Goldman & Co "
Henderson David "	Irvine E & Co "
Kellner E F "	Morgan Henry "
Klein S & Co "	Wharton & McNulty "
Sultan D & Bro "	Bennett & Jones. Pima Station
The Globe Mercantile Co "	Hayden Chas T.. Pima Agency
Van Wagenen G S "	Brinkley Bros Pinal
Westmeyer Frederick W "	Brooks Jay "
Barlow L L Granite Peak	Ellis, Aron & Co "
Elliott & Downer Greaterville	Goldman & Co "
Young John "	Miller George L & Co "
Todd A Hackberry	Welcome L S Polhamus
Hardy Wooster Hardyville	Bashford L & Co Prescott
Goldberg & Son Harshaw	Buffum W M "
Harlow C E & Co "	Campbell John G "
	Ellis Nathan "
	Fisher J L "
	Goldwater M & Son "

Head C P & Co.....Prescott
Levy D & Co..... “
 Weaver B H..... “
 Miller Charles.....Queen City
 Wentworth F G... “ “
 Fish E N.....Sacaton
 Franklin A M & Co....Safford
 McCarty G B..... “
 The Globe Mercan-
 tile Co.....San Carlos
 Wood Reuben... “ “
Farrington R E &
Co.....San Simon
 Kimble Bros.....Signal
 Levy, Koshland & Co... “
 Holjes J H & Co.....Silent
 Norton Charles T.... “
 Buckalew & Ochoa.Silver King
 Ellis, Aron & Co.. “ “
 Solomon I E.....Solomonville
 Johnson & Baldwin...Stanton
 Rittenhouse J D..Sweet Water
 Goldman & Co.....Tempe
 Hayden Charles T..... “
 Priest James T..... “
 Dawes & St James....Tip Top
 Rowe W A & Co..... “
 Cadwell & Stanford.Tombstone
 Cohen R..... “
 Frink George K.... “
 Hoefler Joseph..... “
 Laventhal B..... “
Shaffer & Lord... “
 Smith P W..... “
 Tasker & Pridham. “
Mercer T Lillie.....Tubac
 Bojorquez, h Juan....Tucson
 Garcia B & Co..... “
 Kaufman Bros..... “
Lord & Williams Co. “
 Meyer I & Co..... “
 Robles B..... “
 Tully, Ochoa & Co... “
 Zeckendorf L & Co.... “
 Zeckendorf William... “
 Grant E O & Co.....Vulture
 Kirkland E E..... “
 Levy I H..... “

Rowe W A & Co....Vulture
 Brannen P B & Co....Walker
 Patrick Isaac.....Washington
 Rogers E S..... “
 Oliver W G. Whipple Barracks
 Grant E O.....Wickenburg
 Blaisdell & Johnson...Willcox
 Hanna J B & Co..... “
 Liberman J & Co..... “
 Norton, Stewart & Co. “
 Tully, Ochoa & Co..... “
 Alcayaga & Ruiz.....Yuma
 Ginocchio G & Co..... “
 Lorette Althee..... “
 Lyons Isaac..... “
 Sisson, Wallace & Co.. “

Grain.

Hammond N W...Benson
 Sisson, Wallace & Co.. “
 Buckalew & Ochoa...Florence
 Collingwood Joseph &
 Co..... “
 Buckalew & Ochoa.....Globe
Eaton & Bailey..... “
 Harrison, Fisher & Co... “
Kellner E F..... “
 The Globe Mercantile Co “
Van Wagenen G S.... “
Farrington R E & Co.Maricopa
 Vandever Bros..... “
 Ellis Gus & Co.....Phoenix
 Goldman & Co..... “
Irvine E & Co..... “
Bashford L & Co....Prescott
Buffum W M..... “
Campbell J G..... “
Dougherty J W..... “
 Ellis Nathan..... “
 Goldwater M & Son... “
 Head C P & Co..... “
 Cadwell & Stanford.Tombstone
 Hammond N W.... “
Shaffer & Lord.... “
 Smith P W..... “
 Tasker & Pridham.. “
Goodman A.....Tucson

E. IRVINE & CO., Phoenix, A. T., FURNITURE, CARPETS AND WALL PAPER.

L. BASHFORD & CO., PRESCOTT, A. T., GENERAL MERCHANDISE.

Lord & Williams Co. Tucson
 Meyer L & Co. " "
 Tully, Ochoa & Co. " "
 Zeekendorf L & Co. " "
 Zeekendorf William " "
 Sisson, Wallace & Co. . . . Yuma

Grain Crushing.

Hills & Carr. Benson

Grist Mills.

(See Flour Mills.)

Groceries.

(See also General Merchandise.)

Barnum F C. Alexandra
 Martin Rosa Mrs
 Antelope-Creek Station
 Robinson J A & Co. Benson
 Snyder Warren W. Bumble Bee
 Goodman Thomas J. Ehrenberg
 Corrales Jesus. Florence
 Michea J B. " "
 Romero Nicolas. " "
 Tantini G B. " "
 Shotwell C S & Co. Galeyville
 Smith A E. " "
 Carscadin F. Gila Bend
 Chapel G A. Globe
 Duryea W H. " "
 Cottrell W F. Maricopa
Brown George E. Phoenix
 Righetti James P. " "
 Gomez Francisco. Pinal
 Brannen P B & Co. Prescott
Dougherty John W. " "
 Herzog E. " "
 Otis T W. " "
 Sells & Berry San Simon
 Andrew & Co Tombstone
 Baldrige W J. " "
 Fitzhenry J C " "
 Fitzhenry & Mansfield []
 Hills H E & Co. " "
 Johnson John P. " "
 Marchand G N " "

McKean & Knight Tombstone
 Milich F A & Co. " "
 Neff Andrew S " "
 Smith Charles M. . . . " "
 Alcalá Guadalupe Tucson
 Barragan R J. " "
 Barthelemy C. " "
 Carrillo L " "
 Carrillo Teodosia " "
 Detoý Charles " "
 Drachman & Soto " "
 Felix Dennis. " "
 Germain Eugene " "
 Ghanetto C " "
Goodman A. " "
 Harris & Sutton " "
 Katz Marcus. " "
 McFadden & Serrot " "
 Munos Dario. " "
 Navarro Bernardo. " "
 Ramirez Ramon. " "
 Roca M G " "
 Romero Demetrio " "
 Ruelas Placido. " "
 Salazar José " "
 Seligmann C & Co. " "
 Sresovich Joseph. " "
 Tapia José M. " "
 Warren A L " "
 Yslas Genaro " "
 Soeur Andrew Yuma

Gunsmiths.

Fisk Homer W Globe
 Bennett W W Prescott
 Roberts John W. " "
 Hart Samuel L. Tombstone
 Spangenberg G F. " "
Gruber Jacob Tucson
 Barney William C. Yuma

Hardware.

(See also General Merchandise.)
 Pense & Biggs. Harshaw
 Creamer & Abbott . . . Phoenix
Roberts & Ryder (builders) "

Suter Jacob Pinal
 Frederick & Hill Prescott
 Mason A J (saddlery) "
 Randall Charles A. "
 Emmons G W & Co. Tombstone
 McKean & Knight. " "
 Otis A D & Co (builders) "
 Brown Henry J Tucson
 Goldbaum & Wolf. "
 Katz Marcus. "
 Otis A D & Co (builders) " "

Harness and Saddlery.

(*Manufacturers.)

Buckalew & Ochoa... Florence
 Collingwood, Joseph & Co " "
 *Gonzalez G N "
 Buckalew & Ochoa Globe
Eaton & Bailey..... "
Kellner E F "
 The Globe Mercantile Co " "
Van Wagenen G S..... "
Harlow C E & Co... Harshaw
 Goldman & Co Phoenix
Irvine E & Co..... "
 *Jones Charles L..... "
 *McNeil A J "
 Brooks Jay..... Pinal
 Ellis, Aron & Co..... "
 Goldman & Co "
 Miller George L & Co... "
Bashford L & Co ... Prescott
Buffum W M..... "
Campbell J G "
 Goldwater M & Son.. "
 Head C P & Co..... "
 *Mason A J "
 Randall Charles A. "
 *McMartin James .Tombstone
Shaffer & Lord.... " "
 Smith P W..... "
 *Thompson D R M. " "
 *Clarke C W..... Tucson
 *Cuen Francisco "
Lord & Williams Co. " "
 Meyer L & Co "
 Tully, Ochoa & Co..... "

Zeekendorf L & Co.... Tucson
 Zeekendorf William ... "
 *Ringwald G A..... Yuma
 Sisson, Wallace & Co ... "

Hats and Caps.

(See also General Merchandise.)

Myers J & Schein..... Globe
 Rosenthal Nathan Phoenix
 Bray T C & Co..... Prescott
 Kelly & Stephens..... "
 Glover, Charles & Co. Tombstone
 Myers J & Bro... .. "
 Rosendorf Michael. " "
 Zeekendorf William " "
 Czerwinsky T Tucson
 Goldschmidt, Adolf & Co " "

Horseshoers.

(See Blacksmiths and Wagon-makers.)

Hotels.

Donlan Peter..... Alexandra
 Rouillier Camille..... Arivaca
 Benson Hotel, D H Lo-
 gan..... Benson
 Miner S E Big Bug
 Crosley Mrs Bisbee
 Simas Manuel..... "
 Watson J B..... "
 Grove M E Mrs..... Bradshaw
 Sims S J..... Brigham City
 Burton C E... Camp Huachuca
 Collins J B.... Camp Thomas
 Patterson F Mrs. " "
Fryer Jere..... Casa Grande
 Fitzhugh Thomas Castle Creek
 American Hotel, J F
 Bröwn..... Charleston
 Occidental Hotel, A
 Fleres "
 Pomeroy S W..... Clifton
 Laurrier A..... Contention
 Myers L W & Son.. " "
 Ashby A S..... Dos Cabezas

E. IRVINE & CO., Phoenix, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

Maley Bros.....Dos Cabezas
 Lewis House, C G
 Lewis.....Florence
 Silver King Hotel, T
 H McLellan....."
 Galeville Hotel, S
 M Wessels.....Galeville
 Small B....."
 Burfeind Martin.....Gillette
 Curtis G W....."
 Central Hotel, Mrs M J
 Moore & Son.....Globe
 Gardiner B C....."
 Globe Hotel, Nathan
 Meek....."
 Pascoe House, Mrs Rosa
 Howe....."
 St Charles Hotel, H De
 Beauford.....Harshaw
 O'Halloran Mrs....."
 Boyle Edward.....Hereford
 Ostermann J P....."
 Luttrell J M.....Luttrell
 Batts & Bassett.....Maricopa
 Jones John M.....McMillen
 Shanley Patrick....."
 Bamber John, Norton's Landing
 Drew B J.....Nugget
 Norfolk George T....Pantano
 Bank Exchange Ho-
 tel, E Ganz.....Phoenix
 Byers James S....."
 Phoenix Hotel, Miss
 Rosa Salari....."
 Grand Hotel, Geo Rey-
 nolds.....Pinal
 Pinal Hotel, W A Hall.."
 Irion Robert A...Pinal Ranch
 Deutsch William..Queen City
 Anderson P.....Safford
 Levy, Koshland & Co...Signal
 Rhodenback Harry.....Silent
 O'Boyle W C.....Silver King
 Williams Robert..."
 Jesus Bros.....Solomonville
 Webber & Co.....Tip Top
 Brown's Hotel, Chas.
 R Brown.....Tombstone

Contention House,
 Lowery & Shearer Tombstone
 Cosmopolitan Ho-
 tel, C Bilicke...."
 Grand Hotel, Mrs
 Jessie E Brown "
 Russ House, Ander-
 son & Schmidt .."
 Cosmopolitan Hotel, Paul
 Morony.....Tucson
 Grand Hotel, L M Brown "
 Palace Hotel, Geo Ray-
 field....."
 Porter's Hotel, A A Por-
 ter....."
 Russ House, J P Dixon "
 Barnes John.....Vulture
 Milliken J J.....Walker
 Joyner F O.....Washington
 Melstedt Sarah Mrs "
 Hodge Thomas...Wickenburg
 Klein H W....."
 Campbell J.....Willcox
 Powers A....."
 American Hotel, W H Burke
 Yuma
 Palace Hotel, Andrew Tyner "
 Southern Pacific Railroad
 Hotel, Henry Weaver..."

Ice Manufacturers.

Lount Bros.....Phoenix
 Rodgers E A.....Prescott
 Tombstone and Charleston
 Ice Co.....Tombstone
 Mountain Ice Co.....Tucson
 Tucson Ice Co....."

Insurance Agents.

Bailey Alonzo.....Globe
 Kales M W.....Phoenix
 McNulty W F....."
 Champion Josiah.....Pinal
 Reymert J D Jr....."
 Ellis Nathan.....Prescott
 Holden W F....."
 Martindell C B....."

Meador J F.....Prescott
 Hill C WTempe
 Clapp Milton B.... Tombstone
 Kimball M H..... "
 Manning J G "
 Quigley B C..... "
 Solomon H..... "
 Vickers J V..... "
 Scott Wm A Jr Tucson

Iron and Steel.

(See General Merchandise, also
 Hardware.)

Iron Foundries.

(See Foundries.)

Jewelers.

Davidson D E.....Galeyville
 Newton George A..... Globe
 Kaucher Gustav.....Phoenix
 Trumper V..... "
 Morgan Thomas J.... Prescott
 Hartman & Co..... Tombstone
Heitzelmann Peter. "
 Heyes W A "
 Schmieding Herman "
 Berger James M..... Tucson
 Nilson P F..... "
 Plummer Paul..... "
 Suastegui Rafael..... "
 Olaeta Concepcion..... Yuma
 Rubottom C E..... "

Lawyers.

(See Attorneys at Law.)

Lime, Cement, and Plaster.

(See Lumber Dealers.)

Lime Kilns.

Drake F A..... Tucson

Liquors.

(See also General Merchandise ;
 also Hotels.)

* Wholesale.

Viall Ransom M. Alamo Station
 Barnum F C..... Alexandra
 Campbell _____ "
 Curtis Cyrus..... "
 Minges Bros..... "
 Lee J H..... American Ranch
 Martin Rosa Mrs
 Antelope Creek Station
 Bryan George W..... Benson
 Moore, Hunt & Co..... "
 Patterson George W... "
 Riley John..... "
 Vucovich, Lukini & Co. "
 Buford & Everett..... Bisbee
 Daniels & McReynolds.. "
 Graff & Brentley..... "
 Kelly J A..... "
 Martin M & Co..... "
 Siebe & Tribolet..... "
 Hammond George A, Bradshaw
 Snyder Warren W, Bumble Bee
 O'Neil J H & Co, Camp Thomas
 Marshall Charles.. Casa Grande
 Cauty D J Cerbat
 Brooks G H & Co... Charleston
 Barton Jeremiah.... "
 Clarke James..... "
 Johnston Thomas B "
Stewart J W..... "
 Weber Charles..... "
 Dunn John & Co... Contention
 Hibbard & Co..... "
 McDermott John... "
 Montaya Romualdo. "
 Bayers J A..... Dos Cabezas
 Wood & White... " "
 Drew Harrison, Drew's Station
 Goodman Thos J... Ehrenberg
 Corrales Jesus..... Florence
 Flores Augustin..... "
 Michea J B..... "
 Palmer E W "

E. IRVINE & CO., Phoenix, A. T., HARDWARE & TINWARE.

Rapp Charles.....	Florence	Noon Owen.....	Oro Blanco
Will Peter	"	Brown Thomas W....	Phoenix
Babcock N J	Galeyville	Brown & Cole	"
Barnhart & Reeves ..	"	Coeke Charles.....	"
Holterman & Hollings	"	Daneri Stefano.....	"
Kattenhorn George..	"	Haeffner & Garcia....	"
Kennett P.....	"	*Hooper Wm B & Co.	"
McClelland & Pearson	"	Luke John.....	"
McConnachie J.....	"	Luke & Thalheimer..	"
Shotwell C S & Co..	"	Righetti James P....	"
Tomlinson J H.....	"	Sherman Thomas.....	"
Waring S W & Co..	"	Smith William T.....	"
Burfeind Martin.....	Gillette	Berthier Jules A.....	Pinal
Curtis G W.....	"	Gomez Francisco.....	"
Anderson James.....	Globe	Graham P B.....	"
Benbrook & Burchett....	"	Hunt J B.....	"
Bohse Gustav.....	"	Murray H B	"
Cachot Emile.....	"	Sarrick George H.....	"
Calderon M.....	"	Washburn & Co.....	"
*Coover C M & Co.....	"	Brannen P B & Co...	Prescott
Dickinson & Adams	"	Cate C F.....	"
Dillabough S J	"	*Connell Robert.....	"
Gardiner Benjamin C....	"	Crane Joseph C.....	"
Hamilton James.....	"	Daly Thomas B.....	"
Hammon & Taylor.....	"	Dougherty John W..	"
Hoffman H C.....	"	Hatz Daniel	"
Love A E.....	"	Kirwagen & Sines..	"
McNelly W T.....	"	Murphy & Scholey ...	"
Rinehart J H.....	"	Raible John.....	"
Steiner Rosie.....	"	Sorg Jean.....	"
Young Jesse.....	"	Thorne Daniel	"
Bonnand & Mague... Harshaw		Tompkins & Jackson ..	"
Brickwood J T.....	"	Urfer G.....	"
*Kane William & Co	"	Urfer & Co.....	"
McNamee P J.....	"	Vernon William.....	"
Morrison P.....	"	Faylor & Parker ..	Queen City
Murphy & Everts....	"	Smith —.....	Reno
Northrop	"	Harrison John	Safford
O'Donnell P M.....	"	Sells & Berry	San Simon
Sims T.....	"	Tompkins Peter....	"
Smith Charles.....	"	Conger Daniel.....	Seymour
Washbourn S H.....	"	Hall Charles.....	Signal
Osterman P.....	Hereford	Stein Joseph J & Co....	Silent
Hawkins Joseph.....	McMillen	Thompson & Bowen.	Silver King
Hoffman H C.....	"	Gallardo F	Tempe
White Henry... Mineral Park		Imperial Eulalia	"
Brown Bros... Moore's Station		Shannon P K.....	"
Stanley John, Norton's Landing		Arnold Peter	Tip Top

Bernard & Smith.....	Tip Top	Stigliano O.....	Tombstone
Bolien Augustus.....	"	Tomlinson Wm W.....	"
Bostwick John.....	"	Uebel A & Co.....	"
Kepple & Murphy ...	"	Vogan James.....	"
Urfer G.....	"	Wehrfritz & Tribolet	"
Anderton F S.....	Tombstone	Barragan R J.....	Tucson
Archer & Co.	"	Bayer & Schwarz.....	"
Bell H J A & Co... ..	"	Betz Joseph.....	"
Bennetts & Co.....	"	Brickwedel M H & Co.	"
Bernhardt & Leptien	"	Brunier Josephine Mrs.	"
Blair Charles C.....	"	Carré & Sanders	"
Brooks Ella Mrs ...	"	Carrillo Teodosia.....	"
Brown Fielding C..	"	Chane Charles S.....	"
Cameron & Allender	"	Chapman & Porter....	"
Campbell Robert... ..	"	Childs Samuel C.....	"
Campbell & Hatch .	"	Cory Frank B.....	"
Coghlan & Clements	"	*Dachena A.....	"
Colby Mattie Mrs ..	"	Donsing Louis.....	"
Danner & Owens... ..	"	Drachman & Soto.....	"
Earp James C	"	Durr Joseph.....	"
Egbert & Co.....	"	Felix Dennis.....	"
Ekelund C P `... ..	"	Foster George F.....	"
Eschman & Alderson	"	Fraser Robert.....	"
Fitzhenry John C ..	"	* Goodman A.....	"
Flynn & Fitzpatrick	"	* Hooper Wm B & Co.	"
* Hafford R F & Co	"	Horton Henry.....	"
* Joyce M E & Co..	"	Hucke John G.....	"
Kellogg M E	"	Levin A.....	"
Kelly Julius A	"	Maguire John.....	"
Leigh & Miramontez	"	McWhorter L.....	"
Levi I.....	"	Muñoz Dario	"
Lynch P J	"	Navarro Bernado.....	"
Mand V	"	Newlands & Calder....	"
Marchand G N	"	Pantlind John T.....	"
Mariluis & Co	"	Pearson R C.....	"
McCann & Walsh ..	"	Ramirez Ramon.....	"
* McClelland J J.....	"	Ruelas Placido.....	"
McKenna Mary.....	"	Salazar José.....	"
Meyer John W.....	"	Schayer Herman.....	"
Miley J A.....	"	Seligmann C & Co.....	"
Mooney D T.....	"	Sheldon & Baston.....	"
Moses & Mehan....	"	Sinclair David A.....	"
Nichols & Melgrem.	"	Tapia José M	"
Perkins Lanson W.	"	Tapia Brothers	"
Pump William.....	"	Tapie G.....	"
Rafferty & Co	"	Teeple Robert E	"
Robertson & Clarke	"	Whitton & Co	"
Rodecker & Kelly..	"	Yarnell Joseph.....	"

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

Best & Dennis.....Vulture
 Gonzales Philippi..... "
 Johnson Thomas E..... "
 Noriego Jesus..... "
 Orosco & Hoeffner.... "
 Stroud & Peeples..... "
 Peeples A A.....Wickenburg
 Claire Charles.....Willcox
 Cook H B..... "
 Maley James..... "
 Rohn Hugo..... "
 Waters James..... "
 Horne Louis
 Williamson's Valley
 Furrer Leopold.....Yuma
 Hanes William..... "
 Hughes Thomas..... "
 Olaeta J P..... "
 Salcido Pedro..... "
 Scott Charles W..... "

Livery and Feed Stables.

Ohnesorgen & Co.....Benson
 Wilt A A..... "
 Stilwell Frank.....Bisbee
 Austin E J.....Bradshaw
 McAsh George.....Charleston
Stewart J W..... "
 Basset & Scow...Dos Cabezas
 Eldridge George H..... "
 Wilson John V.....Florence
 Cummings D W....Galeyville
 Adams & Reynolds....Globe
 Blake & Mendenhall.... "
 McKernan J B..... "
 Robertson P C..... "
 Ross G & Co..... "
 Schell R H..... "
 Vaughan & Coyle..... "
 Drenen George.....Harshaw
 Kaighin William..... "
 Rusher John..... "
 Small Nathaniel..... "
 Freeman Frederick..Maricopa
 Lamb Patrick..... "
 Kellner E F & Co....Nugget
 James William....Oro Blanco

Bryan J M.....Phoenix
 Hamlin George..... "
 Henshaw Albert L..... "
 Monihon James D..... "
 Hall, Hurley & Co....Pinal
 Kimball S F..... "
 Mayhew Jesse..... "
 Black Bros & Weston.Prescott
Dougherty John W.. "
 Gosper & Smith..... "
 Hathaway Guilford... "
Shull John T..... "
 Whitehair A J..... "
 Solomon Nathan.Solomonville
 Blackford W C.....Tip Top
 Brown Taylor & Co.Tombstone
 Bullock E & Co.... "
 Dunbar Bros & Co. "
 Garrison A G..... "
 McLane & Gray.... "
 Montgomery & Ben-
 son..... "
 Thomas Charles N. "
 Tuttle H H..... "
 Carroll James.....Tucson
 Cassell Michael..... "
Colton E F..... "
 Field & Morgan..... "
 Robles B..... "
 Rusk W E..... "
 Wheatley William.... "
 Best & Dennis.....Vulture
 Peeples A A....Wickenburg
 Steele & McKenzie....Willcox
 Furrer Leopold.....Yuma

Locksmiths.

Fisk Homer W.....Globe
 Hart Samuel L....Tombstone
 Leavens W M..... "
 Spangenberg G F.. "
Gruber Jacob.....Tucson

Lodging Houses.

Weissig Clara Mrs.....Globe
 Lintz H T.....Harshaw
 Trevaskis H Mrs....Prescott

Williams A P......Prescott
Blair Charles C....Tombstone
Brown R J Mrs..... “
Christie M R Mrs... “
Grant W M...... “
Johnson Allen S.... “
Kellogg M E...... “
Kinsman Catherine “
Morison W C...... “
O'Brien Mary Mrs... “
Peters Mary Mrs.... “
Ryan N Mrs...... “
Shewbridge Peter... “
Stinchfield Annie... “
Dodge Edwin S......Tucson
Downey Patrick...... “
Johnson C H...... “
Johnson W L...... “
Quinn & Wick...... “
Ruel W H...... “
Furrer Leopold......Yuma

Lumber.

(See also Saw Mills.)

Blinn L W & Co......Benson
Sisson, Wallace & Co... “
Blinn L W & Co....Charleston
Avery Frank & Co...Galeyville
Pascholy & Ray..... “
Eaton & Bailey......Globe
Kellner E F...... “
Harlow C E & Co....Harshaw
Rogers A...... “
Kellner E F & Co....McMillen
Kellner E F & Co....Nugget
Goldman & Co......Phoenix
Gregory James M..... “
Irvine E & Co...... “
Roberts & Ryder..... “
Champion Josiah......Pinal
Bashford L & Co....Prescott
Clark & Adams...... “
Curtis George W..... “
Head C P & Co...... “
Wilson & Haskell.... “
Blinn L W & Co....Tombstone
Harwood W A...... “

Otis A D & Co.....Tombstone
Shaffer & Lord..... “
Arizona and California
Lumber Co......Tucson
Lord & Williams Co... “
Otis A D & Co...... “
Blinn L W & Co.....Willcox

Machinists.

Burns Cornelius......Globe
Fisk Homer W...... “
Hutchinson W T......Pinal
Leavens William M...Tombstone
Tombstone Foundry and Machine Shop, T S Harris “
Horner Christopher.....Yuma

Marble Works.

Russell Henry......Tucson

Mattress Manufacturers.

Sweetland B R & Co....Tucson

Medicines.

(See Drugs and Medicines, also General Merchandise)

Merchants---Commission.

(See Commission Merchants.)

Merchants---Forwarding.

(See Forwarding Merchants.)

Merchants General.

(See General Merchandise.)

Metallurgists.

(See also Assayers.)

Hoffman Ottoker......Pinal
Duval Charles J....Tombstone
Kearsing Henry W... “
Rickard William T... “
Salazar B......Tucson

L. BASHFORD & CO., Prescott, A. T.; DEALERS IN GRAIN.

Mill and Mining Supplies.

(See General Merchandise.)

Milliners.

Mattoon Mrs.....Harshaw
 Goforth M L Mrs.....Pinal
 Furbish A A Mrs... .Prescott
 Frary A P Mrs....Tombstone
 Stewart G W Mrs.. " "

Mineral Surveyors.

Gray John W. Chiricahua City
 Hoadley Milo.....Bisbee
 Maxson H B.....Galeyville
 Pendleton A G.....Globe
 Curtis J S.....Mineral Park
 Cox Gustavus.....Pinal
 Merritt W H..... " "
 Eckhoff E A.....Prescott
 Haynes James.....Safford
 Kelly R B.....San Simon
 Ackley Charles....Tombstone
 Arnold George.... " "
 Howe Henry G... " "
 Kelleher & Peel... " "
 Manning J G..... " "
 Parke J G..... " "
 Parker A H..... " "
 Price Rodman M Jr " "
 Allis Solon M.....Tucson
 Chillson Lorenzo D... " "
 Culver John P..... " "
 Roskrige George J.... " "
 Kelly R B.....Willcox
 Miller Walter.....Yuma
 Townsend O F..... " "

Mining Engineers.

Taft Marshall.....Big Bug
 Curtis J S.....Mineral Park
 Hayne Arthur....Tombstone
 Rahn F..... " "
 Rickard Wm T... " "
 Rose William.....Tucson
 Salazar B..... " "
 Tiffany W H..... " "

Mining Exchanges.

Globe Mining Exchange, Globe
 Tombstone Mining
 Exchange.....Tombstone
 American and Mexican
 Mining Exchange....Tucson

Mining Superintendents.

(See page 71.)

Newspapers.

Arizona Weekly En-
 terprise.....Florence
 Arizona Silver Belt (weekly)
 Globe
 Globe Chronicle (weekly) "
 Arizona Gazette (daily and
 weekly).....Phoenix
 Arizona Methodist (month-
 ly)..... " "
 La Guardia (weekly)... " "
 Phoenix Herald (daily
 and weekly)..... " "
 Pinal Drill (weekly).....Pinal
 Arizona Democrat (daily and
 weekly).....Prescott
 Arizona Miner (daily
 and weekly)..... " "
 Evening Gossip (daily)
 Tombstone
 Territorial Expositor
 (weekly)..... " "
 The Nugget (daily
 and (weekly).... " "
 Tombstone Epitaph
 (daily and weekly) " "
 Arizona Citizen (daily and
 weekly).....Tucson
 Arizona Journal (daily
 and weekly)..... " "
 Arizona Mining Journal
 (weekly)..... " "
 Arizona Quarterly Illus-
 trated..... " "
 Arizona Star (daily and
 (weekly)..... " "

El Fronterizo (weekly) Tucson
 Arizona Sentinel (weekly) Yuma
 Yuma Free Press (weekly) "

Notaries Public.

Rice Charles.....Alexandra
 Mundell I N.....Benson
 Savage W H.....Bisbee
 Aldred B A.....Bush Valley
 Mann E.....Camp Thomas
Fryer Jere,.....Casa Grande
 Burnell J C.....Charleston
 Field D C....."
 Springer Albert....."
 De Kuhn R.....Cherry Creek
 Hance George W.....Cienega
 Crawford Benjamin H..Clifton
 Smadbeck Louis....."
 Rigg E A.....Contention
 Wratten Geo L.....Florence
 Morgan H A.....Fort Grant
 Broughton W W....Galeyville
 McCandless Frank .."
 Sessions C B....."
 Brown Oscar M.....Globe
 Hicks J C....."
 Miller P B....."
Swasey Gustavus A...."
 Van Slyck J W....."
 Young John.....Greaterville
 Jordan F E.....Lower Verde
 Nichols J R.....McMillen
 Stephenson J W..Mineral Park
 Crawford B M.....Oro
 Stokes W R.....Parker
 Cox Frank.....Phoenix
 Hancock W A....."
 Hughes J H....."
 McNulty W F....."
 Rogers J K.....Pima
 Davis James W.....Pinal
 Goodwin F L B....."
 Reymert J De Noon...."
 Stone W R....."
 Carpenter J H.....Prescott
 Eckhoff E A....."
 Fisher P M....."

Fleury Henry W.....Prescott
 Hargrave Joseph P..."
 Marcou S G....."
 Masterson Murat....."
 Meador J F....."
 Walker R H....."
 Wells Ed W....."
 Weyl Joseph....."
 Miller Charles.....Queen City
 Katz A.....Safford
 Koshland H.....Signal
 Norton Charles T.....Silent
 Thompson E F....Silver King
 Rogers J R.....Smithville
 Smith J N.....Snow Flake
 Wickersham D W, Solomonville
 O'Brien E T.....Springerville
 Aram Eugene W...Tombstone
 Carpenter S W"
 Clapp M B....."
 Colby P T....."
 Conwell John W..."
 Davis L H....."
 Farrell J R....."
 Felter A J....."
 Fickas B A....."
 Gray D L....."
 Harwood W A....."
 Hayne Marcus P..."
 Kimball M H....."
 Maxson H B....."
 Neff A S....."
 Quigley B C....."
 Reilly James....."
Spicer Wells....."
 Street Webster....."
 Stump J W....."
 Thurmond P M...."
 Trantum O O....."
 Vickers J V....."
 Voisard E P....."
 Wallace A O....."
Mercer T Lillie.....Tubac
 Berton Thomas.....Tucson
Chillson Lorenzo D..."
 Cullum H B....."
 Drake C R....."
 Evans J W....."

E. IRVING & CO., PHOENIX, A. T., MEDICINES, PAINTS, OILS AND GLASS.

L. BASHFORD & CO., Prescott, A. T., LUMBER OF ALL KINDS.

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Hatch F W.....	"
Hereford B H.....	"
Kane S K.....	"
Lighthizer H B.....	"
Meyer Charles H.....	"
Morgan Benjamin.....	"
Oates J W.....	"
Osborn William J.....	"
Read Will S.....	"
Roskruge George J....	"
Snyder M S.....	"
Topliff James F.....	"
Wicks Moye.....	"
Bragg H N.....	Washington
Joyner F O.....	"
Peeples A H.....	Wickenburg
Smith Delos H.....	Willcox
Alexander H N.....	Yuma
Townsend O F.....	"

Oil Cloths.

(See Carpets and Oil Cloths.)

Oils.

(See also General Merchandise ; also Paints and Oils.)

Kane, William & Co,	Harshaw
Hooper Wm B & Co.	Phoenix
Hafford R F & Co.	Tombstone
Hooper Wm B & Co.	Tucson

Painters.

Herring & Spencer..	Galeyville
Cahill Joseph R...	Globe
Bicknell P C.....	Phoenix
Everett W J.....	"
Gonzales R G.....	"
Palmer Charles..	.... Pinal
Godfrey & Burden..	Tombstone
Peacock Edwin K..	"
Choate & Shepherd...	Tucson
Gaynor William H....	"
McCoy James.....	"
Smith Ferdinand A....	"
Tucson Painting Co..	"

Paints and Oils.

(See also General Merchandise.)

Bluett William H.....	Pinal
Kearney E T & Co.	Tombstone
Otis A D & Co.	"
Brown Henry J.....	Tucson
Otis A D & Co.....	"
Sweetland B R & Co..	"

Paper Hangers.

Arnhold F W.....	Prescott
Sweetland B R & Co	Tucson

Photographers.

Grime Cicero.....	Globe
Burge J C.....	Phoenix
Rothrock & Catton ...	"
Mitchell Daniel F ...	Prescott
Kemp & Coleman ..	Tombstone
Bagnasco Policarpo....	Tucson
Buehman H & Co.....	"
Bonine E A	Yuma

Physicians.

Durham —.....	Bisbee
Joseph L B	Clifton
Barney J G	Contention
Harvey William	Florence
Lewis J H	Galeyville
Pring E J	Globe
Macdonell C A.....	"
Thatcher C E	"
Cubberly E B . . .	Greaterville
Hayes R T.....	Harshaw
Smith T H.....	"
Tripp R B	Little Giant
Burdeck E L	Mineral Park
Stanley E A. Norton's	Landing
Noon A H.....	Oro Blanco
Conyers B L	Phoenix
Farrington J B	"
Pickens N A Mrs.....	"
Rosson R L	"
Sheets Oliver H P ...	"
Wharton & Rosson ...	"

E. IRVINE & CO., Phoenix, A. T., GENERAL MERCHANDISE.

Adams Orson B. Pinal
 Davis Hugh H. "
 Thompson Anson N. "
 Ainsworth F K. Prescott
 Kendall George D. "
 McCandless J N. "
 Towndron W N. Safford
 Anderson G W. Tombstone
 Fowler Henry R. "
 Giberson N S. "
 Gildersleve F V B. "
 Gillingham — "
 Goodfellow Geo E. "
 Greer Joseph H. "
 Hatch Henry. "
 Henderson G T. "
 Hiller F. "
 Matthews H M. "
 McSwegan Daniel. "
 Millar W S. "
 Seawell Thomas. "
 Del Amo Juan. Tucson
 Handy J G. "
 Holbrook Charles E. "
 Lyford L Dexter. "
 Turner Jared. "
 Watson C P V. "
 Lawrence. Vulture
 Taggart J H. Yuma

Picture Frames.

Porter George S & Co Prescott
Buehman H & Co. Tucson
Sweetland B R & Co. "

Plasterers.

Carter G C. Tucson
Groff Charles F. "
 Leboisne & Lester. "

Plumbers.

Robinson Lewis. Globe
 Frederick & Hill. Prescott
 Atchison Thos A. Tombstone
 Frederick & Hill. "
 Davis William C. Tucson

Powder.

(See General Merchandise.)

Printers.

(See also Newspapers.)

Hasselgren H W. Tombstone

Produce.

(See also General Merchandise.)

Ellis Gus & Co. Phoenix
Irvine E & Co. "
 Goldman & Co. "
 Baldrige W J. Tombstone
 Milich F A & Co. "
 Neff Andrew S. "
 Randle W C. "
Shaffer & Lord. "
 Smith C M. "
 Smith P W. "
 Caswell A M. Tucson
Goodman A. "
Lord & Williams Co. "
 Sresovich Joseph. "
Townsend Bros. "
 Zeckendorf L & Co. "
 Sisson, Wallace & Co. Yuma

Provisions.

(See General Merchandise; also Groceries.)

Public Gardens.

Levin's Park. Tucson

Publishers.

(See Newspapers.)

Quartz Mills.

(See page 75.)

Real Estate.

Galeyville Townsite
 Co. Galeyville

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

Swasey G A.....Globe
 Quigley B C.....Tombstone
 Vickers J V....."
 Vimont J N....."
 Wallace Thomas..."
 Fried I S.....Tucson
 Fulton & Duff....."
 Noyes E W....."
 Wetmore Edward L..."

Restaurants.

Brown Benjamin P....Benson
 Long Yee....."
 Vucovich Lukini & Co "
 Walker Mrs.....Bisbee
 Charles Kee.....Charleston
 Low Ket....."
 Jennison J E.....Contention
 Smith J B....."
 Johnson Rosa Mrs..Galeyville
 Kennett P....."
Pascoe J H.....Globe
 Bonnand J.....Harshaw
 Lee Bin....."
 Nicolas & Cazabon..."
 Seabury & Ryan....."
 Cuzeno C.....Mineral Park
 Krider Bros....."
 Butler P W.....Phoenix
 Joe Ching....."
 Salari & Righetti....."
 Becher Gustav.....Pinal
 Souva & Ruddy....."
 Ah Gunn.....Prescott
 Guild J A....."
 Katz Daniel....."
 Thorne & Piercy....."
 Gen Shuy.....Queen City
 Johnson J Mrs.....San Simon
 Sells & Berry....."
 Gallardo F.....Tempe
 Maher Joseph.....Tip Top
 Ahlers J D & Co...Tombstone
 Bayley George"
 Caesar Julius....."
 Campbell Robert..."
 Carleton Frank H.."

Cusich J.....Tombstone
 Geisenhofer O W..."
 Jackson Edward H..."
 Kilillea Kate Miss.."
 Kosha J A....."
 Lloyd Hannah Mrs..."
 Lukini John & Co.."
Marcovich Peter.."
 Nash Brothers & Fritch....."
 Noble James....."
 Nowell & Curry Misses....."
 O'Brien Mary Mrs.."
 Petro A & Co....."
 Rodecker & Kelly.."
 Rogers Tempe S Mrs "
 Stigliano O....."
 Vallory Antoine..."
 Walsh & Co....."
 Walsh & Shannon.."
 Woods M L Mrs..."
 Young John S....."
 Young L Mrs....."
 Brickwedel M H & Co.Tucson
 Cason C....."
 Chong Ghee....."
 Downey Patrick....."
 Gin Foy & Co....."
 Hop Kee....."
 Hunt J A Mrs....."
 Montañño Cornelia . . . "
 Peguilhan Francois... "
Protopsaltis A & C..."
 Protopsaltis John... "
 Ravisioni Daniel....."
 Riskey Joseph F....."
 Rousseau Charles....."
 Sorgatz B....."
 Sresovich Joseph....."
 Talamonte P & Co...."
 Trabucco Joseph....."
 Wing Lee....."
 Soeur Andrew.....Yuma

Roofing Materials.

Noyes & Earl.....Tucson

Rubber Stamps.

Cohn Max.....Tucson

Saddles and Harness.

(See Harness and Saddlery.)

Saw Mills.

Van Name William...Big Bug
 Downing W M, Chiricahua Mts
 Morse & Co.... " "
 Tanner & Hayes.....Harshaw
 Carnell John....Huachuca Mts
 Carr James..... " "
 Tanner & Hayes. " "
 Patterson James ...Minnehaha
 Sherman & Barrett,
 Mountain Station
 Bremen M W.....Pinal Mts
Kellner E F..... " "
 Clark & Adams.....Prescott
 Curtis G W..... " "
 Parker & Parker, Willow Creek

Schools.

Moorehouse Stella A Miss,Globe
 Sisters of St Joseph...Prescott
 Rehbein Emil.....Tombstone
Tombstone Academy
 Prof J B Patch... " "
 R C Parochial (boys)...Tucson
 R C Parochial (girls)... " "
 Silva Mr and Mrs..... " "
 St Joseph's Academy .. " "
 Convent of the Sacred Heart
Yuma
 R C Parochial..... " "
 Roy Theophilus..... " "

Searchers of Records.

Wright & Bucksbaum
 Mineral Park
 Long R L.....Phoenix
 Patterson John W.....Tucson
 Read Will S..... " "

Sewing Machines.

Creamer & Abbott....Phoenix
 Hartman & Co. ... Tombstone
 Berger James M..... Tucson
 Singer Manufacturing Co " "
 Vila A Mrs..... " "
 Martin George.....Yuma

Shirt Manufacturers.

Voorhees Mary... Tombstone
 Goldschmidt Adolf & Co,Tucson

Soda Water Manufacturers.

Brix Peter.....Phoenix
 Eureka Soda Works, Tombstone
 Union Soda Works. " "
 Pioneer Soda Works " "
 Pioneer Soda Works ... Tucson

Spring Bed Manufacturers.

Sweetland B R & Co. Tucson

Stage Lines.

(See page 115.)

Stationery.

(See also General Merchandise.)

Jones J J & Co.....Bisbee
 Washeim Charles, Dos Cabezas
 Hammon & Taylor.....Globe
 Shirpser David..... " "
 Bauman & Thomas...Harshaw
 Drake W B..... " "
Brown George E.....Phoenix
 Loring George E..... " "
 Brinkman Delia Mrs.....Pinal
 Bones & Spencer.....Prescott
 Bray T C & Co..... " "
 Kelly & Stephens..... " "
 Otis T W..... " "
 Chapin S B.....Tombstone
 Fortlouis Albert.... " "
 Israel Salomon.... " "
 Williams Marshall.. " "
 Mansfeld Jacob S.....Tucson

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 Van Wagenen G S... “
 Goldman & Co..... Phoenix
 Irvine E & Co..... “
 Pesqueira M..... “
 Suter Jacob..... Pinal
 Bashford L & Co Prescott
 Buffum W M..... “
 Campbell J G “
 Frederick & Hill..... “
 Goldwater M & Son .. “
 Head C P & Co..... “
 Randall Charles A.... “
 Atchison Thomas A, Tombstone
 Fesenfeld William.. “
 Frederick & Hill... “
 Shaffer & Lord.... “
 Smith P W..... “
 Waterman & Good-
 rich..... “
 Davis W C Tucson
 Goldbaum & Wolf..... “
 Lord & Williams Co.. “
 Meyer L & Co..... “
 Tully, Ochoa & Co... “
 Zeckendorf L & Co.... “
 Zeckendorf William... “

Surveyors.

(See Mineral Surveyors.)

Tailors.

Olguen Alejandro Globe
 Barruth Simon Phoenix
 Berwin Simeon Tombstone
 Ernst Hyman..... “
 Frerichs D G..... “
 Hattich Bartholomy “

Hayes Wilfred A .. Tombstone
 McConville J A.... “
 Myers H “
 Ferrin Joseph..... Tucson
 Mueller Wilhelm M.... “
 Vila & Douville “

Tanneries.

McNair Walter.... Charleston
 Edwards — Tempe

Tea Dealers.

(See also General Merchandise,
 also Groceries.)

Hooper Wm B & Co.. Phoenix
 Hooper Wm B & Co .. Tucson

Telegraph Lines.

Western Union Benson
 United States Military,
 Camp Thomas
 Western Union .. Casa Grande
 Western Union Charleston
 United States Military,
 Dos Cabezas
 United States Military,
 Florence
 United States Military,
 Fort Apache
 United States Military,
 Fort Bowie
 United States Military,
 Fort Grant
 United States Military,
 Fort Lowell
 United States Military,
 Fort McDowell
 United States Military,
 Fort Verde
 Globe and San Carlos, Globe
 United States Military,
 Maricopa
 Western Union..... “
 United States Military. Phoenix
 United States Military. Prescott

Zeckendorf L & Co Tucson
 Zeckendorf William “

Watches and Jewelry.

Davidson D E Galeyville
 Newton George A Globe
 Trumper V Phoenix
 Morgan Thomas J Prescott
 Hartman & Co Tombstone
Heitzelman Peter. “
 Heyes W A “
 Schmieding Herman “
 Berger James M Tucson
 Nilson P F “
 Plummer Paul “
 Suastegui Rafael “
 Rubottom C E Yuma

Water Works.

Sycamore Spring Water Co,
 Tombstone

Tucson Water Works . . Tucson

Wheelwrights.

(See Blacksmiths and Wagon
 Makers.)

Wines and Liquors.

(See Liquors.)

Wood and Willow Ware.

(See General Merchandise.)

Wood Turners.

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Arizona.

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Bank of British Columbia, S E
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California and Sansome
Belloc & Cie, 524 Montgomery
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San Francisco, 315 Montgom-
ery
French Savings and Loan So-
ciety, 534 California
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ciety, 526 California
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ing Corporation, 423 Cal'a
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Du Rose F F, 29 Second

F. F. DU ROSE,
CALIFORNIA

BED COMFORTER FACTORY,

29 SECOND STREET,

A few doors from Market, SAN FRANCISCO'
A Superior Quality of all Sizes filled with
Cotton Batting constantly on hand.

NO SHODDY USED.

H. IRVINE & CO., PHOENIX, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

Bed Lounge Manufacturers.

Klemm Charles, 148 Bluxome

CHARLES KLEMM,

Manufacturer of

IMPROVED PATENT BED LOUNGES,

Patent Sofa Beds, Parlor Suites,
 Patent Rockers, and Walnut Lounge Frames,
 148 BLUXOME, AND 617 AND 619 BRANNAN ST.
 Between Fifth and Sixth Streets,
 SAN FRANCISCO.

Bed Spring Manufacturers.

Blanchard Jules, 44 Fourth
 California Spring Manufactur-
 ing Co, 147 New Montgomery
 Keogh John, 73 New Mont-
 gomery
 Nachman A, 151 New Mont-
 gomery
 Pacific Spring and Mattress Co,
 25 New Montgomery

Bedding Manufacturers.

(See also Furniture; also Mat-
 tress Makers; also Spring
 Beds.)

California Furniture Manufact-
 uring Co, 224 Bush
 Chadbourne F S & Co, 735
 Market

Clark, Truman S & Son, 21
 New Montgomery

Emanuel L & E, 319 Pine
 Frank Henry, 212 Commercial
 Heney W J & Co, 14 Ellis
 Hufschmidt F, 323 Pine

Jansen Alexander, 48 Second
 Shaber John A & Co, 707
 Market

Bedding Materials.

Glover & Willcomb, 67 New
 Montgomery
Keogh John, 73 New Mont-
 gomery

JOHN KEOGH,

Importer of Bedding Materials,

Wholesale Dealer in

Curled Hair, Live Geese Feathers, Furniture
 Springs, Moss, Tow, Pulu, Excelsior, Bed
 Lace, Webbing, Ticking, Spring, and
 Stitching Twines, Burlaps,
 Tacks, Tufts, &c.

73 and 75 New Montgomery St., San Francisco.

Bedsteads,

(See Furniture Manufacturers;
 also Iron Bedsteads.)

Bell Founders.

Bell John P & Co, 18 Fremont
Garratt W T, N W cor Fre-
 mont and Natoma
Greenberg & Co, 205 Fremont
Weed & Kingwell, 125 First

Bellows Manufacturers.

**California Bellows Manufact-
 uring Co**, 32 Fremont
Fenn F C 1628 Mission
Mc Keune Henry, 566 Mission

JAMES CAMPBELL, Superintendent.

CALIFORNIA BELLOWS MANUFACTURING CO.

Blacksmiths', Miners', Moulders', and Coopers'

BELLOWS

Constantly on hand and made to order.

No. 32 FREMONT STREET,
 SAN FRANCISCO, CALIFORNIA.

Belting.

(* Manufacturers.)

Baker & Hamilton, 13 and 19
 Front

Berry & Place, Machinery Co,
 323 Market

* **Cook A O**, 415 Market

* **Cook H N**, 405 Market

* **Degen L P**, 13 Fremont

* **Detrick E & Co**, (cotton) 108
 Market

Gregory H P & Co, 2 Cal'a

* **Gutta Percha and Rubber Man-
 ufacturing Co**, 501 Market

* **Royer Herman**, 855 Bryant

L. BASHFORD & CO., Prescott, A. T., ALL KINDS OF AGRICULTURAL IMPLEMENTS.

Wagner, Joseph & Co, (flour mill) 105 Mission

H. N. COOK,

Manufacturer of

Leather Belting and Lacing

405 MARKET STREET,

SAN FRANCISCO.

Billiard Table Cushions.

Liesenfeld P, (Collender's) 585 Market

Strahle Jacob & Co, (Delaney's) 533 Market

The J M Brunswick and Balke Co, (Monarch) 653 Market

Billiard Table Manufacturers.

Jungblut Aug & Co, 14 Golden Gate Av

Liesenfeld P, 585 Market

Meyer J G H, 320 Kearny

Strahle, Jacob & Co, 533 Market

The J M Brunswick & Balke Co, 653 Market

JACOB STRAHLE & CO.

Billiard Table Manufacturers,

Importers and Dealers in

BILLIARD AND POOL TABLES, BILLIARD GOODS, TEN PIN GOODS AND ALLEYS.

Sole Owners and Patentees for

Delaney's Steel Spring Cushions.

Largest Billiard House on the Coast.

533 MARKET STREET, SAN FRANCISCO, CAL.

Bird Cage Manufacturers.

Fuhrmann A M, 751 Mission

Gruenhagen C H, 669 Mission

Hallidie A S, 6 California

Bitters.

(*Manufacturers.)

* **Cahen Louis & Son,** 416 Sacramento

* **Cassin P J,** S W cor Washington and Battery

* **Haraszthy, Arpad & Co,** 530 Washington

* **Hess Louis,** 12 Montgomery Av

* **Jaujou E A & Co,** 430 Jackson

Lang & Co, 212 Dupont

* **Lyons E G & Co,** 506 Jackson

* **McMillan Donald,** 714 Front

* **Naber, Alfs & Brune,** 413 Front

Redington & Co, 529 Market

* **Renz John,** 219 Commercial

Sroufe & McCrum, 208 Market

Van Alstine & Co, 8 Brenham Place

Van Bergen N & Co, 413 Clay

Walter M & Co, 625 Sansome

Wichman & Lutgen, 321 Clay

* **Wilmerding & Co,** 214 Front

* **Wolters, Bros & Co,** 221 Cal'a

Blacksmiths' Tools.

(See also Hardware.)

Baker & Hamilton, 13 Front

Carolan, Cory & Co, 119 Cal'a

Dunham, Carrigan & Co, 107 Front

Gibbs George W & Co, 33 Fremont

Huntington, Hopkins & Co, cor Bush and Market

Selby Thomas H & Co, 116 California

Van Winkle I S & Co, 413 Market

Blank Book Manufacturers.

Althof & Bahls, 329 Sansome

Bartling & Kimball, 505 Clay

Bosqui Edward & Co, 523 Clay

Buswell & Co, 525 Clay

Cooke Wm B & Co, 723 Market

Crocker H S & Co, 215 Bush

Hicks D & Co, 508 Montg'y

Leary A J, 404 Sansome

McIntyre John B, 423 Clay
 Rankin Charles E, 540 Clay

Blinds.

(See Doors, Sashes and Blinds.)

Boiler Covering.

Burton W H, 159 New Mont-
 gomery
 Fowler G C, 413 Pacific
 Hanna J & P N, 310 Davis
 Merrell I L, 314 Townsend

Boiler Makers.

**Golden State and Miners' Iron
 Works**, 237 First
Hall J V, 214 Beale
Hawkins William, 210 Beale
Hinckley, Spiers & Hayes,
 220 Fremont
Jardine J B, 135 Beale
McAfee, Wheeler & Co, 210
 Spear
Moynihan & Aitken, 311 Miss'n
Ohmen W H, 109 Beale
Prescott, Scott & Co, N E cor
 First and Mission
Pretorious, Trowbridge & Co.,
 141 First
Rankin, Brayton & Co, 127
 First
**Risdon Iron and Locomotive
 Works**, S E cor Beale and
 Howard
Roebuck Thomas G, 137 Beale
Sefrin & Schober, 203 Fremont

Bolt Makers.

Pacific Rolling Mill Co, 202
 Market
 Payne William, 133 Beale
 Phelps Manufacturing Co, 13
 Drumm

Bolting Cloths.

Wagner Joseph & Co, 105
 Mission

Booksellers.

Bancroft A L & Co, 721 Market
 Payot, Upham & Co, 204 San-
 some

Boot and Shoe Findings.

(See Shoe Findings.)

**Boot and Shoe Manufact-
 urers.**

Armstrong T H, 67 Stevenson
Buckingham & Hecht, 25 San-
 some
 Cahn, Nickelsburg & Co, 31
 Battery
 Chase R P, 869 Market
Hecht, Bros & Co, 25 Sansome
 Hobart & Wood, 15 Sansome
 Jory Bros, 23 Van Ness Av
 Kullman, Salz & Co, 106 Battery
 Levinsky Bros, 515 Market
 Levy, Diamant & Co, 107 Bat-
 Marks S, 87 Stevenson
 Nolan E D & Co, 71 Stevenson
 Nolan P F & Co, 414 Market
 Porter, Oppenheimer, Slessinger
 & Co, 117 Battery
 Rosenthal, Feder & Co, 33 Bat-
 tery
 Rosenstock S W & Co, S E cor
 Sansome and Bush
Tirrell C & P H & Co, 419 Clay
 United Workmen's Co-oper-
 erative Boot & Shoe Co, 416
 Market
 Wentworth I M & Co, 400 Bat-
 tery

Bottle Manufacturers.

(See Glass Works)

Bottling Machines.

Watson & Co, 122 Market

Box Brands.

Schmidt M & Co, 411 Clay

ARTISTIC DESIGNS

—IN—

BOX BRANDS

—BY—

M. SCHMIDT & CO.

411 Clay Street, San Francisco.

Box Manufacturers.

Cigar.

California Cigar Box Factory,
Berry, bet Third and Fourth
Korbel F & Brós, 308 Battery
Waldstein Abraham, 320 San-
some

Packing.

Hobbs, Pomeroy & Co, 13 Beale
Myers, Gilman & Co, S W cor
Harrison & Ninth
San Francisco Box Factory,
Berry, bet Third and Fourth
Union Box Factory, 114 Spear

Paper.

(See Paper Boxes.)

Tin.

(See Tin Cans and Boxes.)

Brass Founders.

Baud Frank, 522 Fulton
Bell John P & Co, 18 Fremont
Engels William, S W corner
Twenty-Fourth and Utah
Garratt W T, N W corner Fre-
mont and Natoma
Giovannini & Co, 417 Mission
Greenberg & Co, 205 Fremont
Roylance Joseph, 45 Fremont
Weed & Kingwell, 125 First

Breweries.

Albany, 71 Everett
Albion (Ale and Porter), Bur-
nell & Turner agents, 519
Sacramento
Bavarian, N E cor Montgomery
Av and Vallejo

Boca Brewing Co, 415 Sacra-
mento
Broadway, 637 Broadway
California, Serpentine Av, near
Bryant
Chicago, 1420 Pine
Eagle, S W cor Fourteenth and
Folsom
Empire, 418 Chestnut
Enterprise, 2017 Folsom
Eureka, 235 First
Europa, Nebraska nr Serpentine
Avenue
Golden City, 1431 Pacific
Golden Gate, S E cor Montgom-
ery Av and Greenwich
Hayes Valley, 514 Grove
Hibernia, 1225 Howard
Humboldt, Mission, near Fif-
teenth
Jackson, 1428 Mission
Lafayette, 725 Green
Mason's, 523 Chestnut
Milwaukee, 612 Seventh
National, S E cor Fulton and
Webster
North Beach, N E cor Powell
and Chestnut
Pacific, 267 Tehama
Philadelphia, 240 Second
Pioneer, 209 Treat Avenue
Railroad, Valencia nr Sixteen'h
San Francisco Stock, S E cor
Powell and Francisco
South San Francisco, cor Rail-
road and Fourteenth Aves
Swan, S E cor Fifteenth and
Dolores
Swiss, 414 Dupont
Tivoli, E s Fillmore, bet Waller
and Germania
Union, 326 Clementina
United States, SE cor Franklin
and McAllister
Washington, S E cor Lombard
and Taylor
Willows, S E cor Mission and
Nineteenth

Brewers' Materials.

Bauer J C & Co, 632 Sac'to
 Herrman & Co, 313 Sacramento
 Neis Philip, 409 Front
 Scherr, Bach & Lux, 535 Sac-
 ramento

Brick Manufacturers.

Hunter & Shackelford, 310 Pine
 Lynch Peter, Pacific St. Wharf
 Patent Brick Co, 401 Montg'y
 Remillard Brick Co, Pacific St.
 Wharf

Bridge Builders.

Boobar E C, 14 Howard
 Hallidie A S, (wire) 6 Cal'a
 Martin W H & Co, 7 Spear
 Pacific Bridge Co, 4 California
 San Francisco Bridge Co, 10
 California

Broom Manufacturers.

Armes & Dallam, 115 Front
 Cole & Kenny, 114 Sacramento
 Copson Benjamin, 322 Davis
Feldman L & Co, 315 Sac'to
 Golden Thomas, 109 Clay
 Harrison & Dickson, 210 Sac'to
Kunze Otto E, 646 Mission
 Simpson R W, 325 Sacramento
Titcomb & Co, 203 Sacramento
 Unna Jacob, 157 New Mont-
 gomery
 Van Laak Lambert, cor Seven-
 teenth and Howard
 Ward Thomas, 27 Drumm

Brush Manufacturers.

Bleibtrey Charles, 609 Howard
 Cole & Kenny, 114 Sacramento
 Conklin T C, 418 Fourth
Feldman L & Co, 315 Sac'to
 Figer Bros, 615 Sacramento
 Golden Thomas, 109 Clay
**Harrison & Dickson, 210 Sac-
 ramento**

Kunze Otto E, (O K-Factory)

646 Mission
 Simpson R W, 325 Sacramento
 Unna Jacob, 157 New Mont'y

Bung Manufacturers.

Gracier F J, 211 Mission
 Mixer George H, 51 Beale
 Swift James, 221 Mission
 Waas Henry, 718 Minna

Button Manufacturers.

Colombat A, 108 O'Farrell
Ettinger S, 105 Post
 Norcross & Co, 6 Post

Cabinet Makers.

(See Furniture Manufacturers.)

Cabinet Makers' Supplies.

Wigmore John, 129 Spear

**California Wines and Bran-
 dies.**

(See Wines—Native.)

Candle Manufacturers.

Bay Soap and Candle Co,
 (Limited) 116 Front
**Castle Bros & Loupe, (agents
 Comstock candles) 213 Front**
Coleman William T & Co,
 (agents) 203 California
 Mission Soap & Candle Works,
 108 Bush
 San Francisco Candle Co, 402
 Front

Candy Manufacturers.

Demartini L & Co, 211 Post
 Dexter Frank, 526 Washington
 Fahrbach & Seidl, 405 Davis
Foster & Co, 1025 Market
 Gruenhagen W, 20 Kearny
 Guillet Charles, 206 Second
 Hirschfeld & Saroni, 118 Davis
 Masson Freres, 413 Commercial

Mercer M A, 518 Kearny
Pitt W G C & Co, 465 Stevenson
Roberts George F, 1301 Polk
Rotger & Bischoff, 307 East
Rothschild & Ehrenfort, 118
Front
Schlesinger & Co, 102 Market
Schroder, Albrecht & Co, 224
Battery
Seidl J & Co, 405 Davis
Thain Bros, 781 Market
Townsend W S, 627 Market

Canned Goods.

(See Hermetically Sealed
Goods.)

Cap Manufacturers.

Garn William, 423 Pine
Rosenberg George, 20 Sansome
Zobel J, 104 Dupont

Car and Iron Bridge Work.

The Phelps Manufacturing
Co, 13 Drumm

Car Springs.

Betts Spring Co, 218 Fremont

Carpets.

Heynemann H & Co, 5 Sansome
Richter P E, (Turkish) 209
Sansome
Sloane W & J, 525 Market
Walter D N, and E & Co, NW
cor Battery and Market

Carriage Goods.

Stein C W, 265 Stevenson

Carriage Importers.

Albaugh M S, 411½ California
Eastman T S, 46 New Mont-
gomery
Wiley O F & Co, 427 Mont'ry

Carriage Manufacturers.

Black H M & Co, 851 Market

Briggs R F & Co, 220 Mission
Carvill Manufacturing Co, 9
Powell
Folsom Albert, 217 Ellis
Grave B & Co, 421 Pacific
Holmes M P, 327 Sutter
Larkins & Co, 631 Howard
Locke J P & Co, 817 Market
Shute Daniel S, 111 O'Farrell

Carriage Springs.

Betts Spring Co, 218 Fremont
Morris H D, 4 Fremont

Carriage and Wagon Ma- terials.

Holt Bros, 27 Beale
Straut W E, N W cor Drumm
and Sacramento
Waterhouse & Lester, 29 Fre-
mont
White Bros, 13 Main

Carriage and Wagon Tops.

Plumbe J F, 25 Second

Chain Manufacturers.

Pacific Chain Works, office 250
Market
Payne William, 133 Beale
Phelps Manufacturing Co, 13
Drumm

Chair Manufacturers.

(See also Furniture Manufac'rs.)
Carmouche M, 124 Main
Heywood Bros & Co, 589
Mission
Indianapolis Chair Manufac-
ing Co, 160 New Montgomery
Postel I, 413 Mission
San Francisco Chair Factory,
135 Beale

Champagne Manufacturers.

Finke A, 809 Montgomery

Haraszthy Arpad & Co, 530
 Washington
Lachman S & Co, 409 Market

Chemical Works.

California, San Bruno Road bet
 Twenty-seventh and Twenty-
 eighth
 Golden City, N W cor Seventh
 and Townsend
 San Francisco, office 402 Front

Chimney Tops.

Gladding, McBean & Co, 1310
 Market
Owens John B, 22 California
Williams J B, 400 Thirteenth,
 Oakland

Chimneys—Patent.

Williams J B, 400 Thirteenth,
 Oakland

Chlorinating Tubs,

Jewell A M & Co, Berry, bet
 Third and Fourth

Chocolate Manufacturers,

Ghirardelli & Danzel, 415 Jack-
 son
Guittard E & Co, 405 Sansome

Chrome Works.

Kruse & Euler, (agents Balti-
 more Chrome Works) 209
 Front

Cider Manufacturers.

Code, Elfelt & Co, 314 Wash-
 Cutting Packing Co, 17 Main
 Eastern Cider Co, 719 Bryant
 King, Morse & Co, N W cor
 Broadway and Sansome
 Pennie J C Jr, 504 Jackson
 Preble & Jones, 218 Davis
Wangenheim Sol & Co, 118
 Davis

Cigar Importers.

Castle Bros & Loupe, (agents
 Owl cigars) 215 Front
Drinkhouse J A, S W cor Bat-
 tery and Sacramento
Dwyer & Cartan, 513 Sacra-
 mento
Kohlberg M P & Co, 218 Bat-
 tery
Michalitschke Bros, 239 Kearny
Rosenbaum A S & Co, S E cor
 California and Battery
Rosenshine M & Bro, 604 Front
Schoenfeld Jonas, 423 Jackson
Wellman, Peck & Co, 126
 Market.
Wertheimer L & E, 300 Front

Cigar Manufacturers.

Armer & Co, 306 Sacramento
Boukofsky & Sternberg, 316
 Washington
Bowman John S & Co, 215 Bat-
 tery
Brand Herman, 304 Battery
Bremer Joseph & Co, 310 Sacra-
 mento
Brune August, 227 Clay
Bura Adolph, 104 Dupont
Cohn G & Co, 117 Pine
Culp J D & Co, 16 Front
Diez & Ramon, 416 Battery
Eisenberg E & Bro, 329 Market
Engelbrecht, Fox & Co, 312
 Front
Esberg, Bachman & Co, 126
 Battery
Evers A, 522 Kearny
Falkenstein & Co, N E cor Bat-
 tery and Sacramento
Freund & Morgan, 763½ Bryant
Gaffke Ernst, 443 Bush
Galleano A, 802 Montgomery
Gelien R G, 315 Davis
Goldberg & Poppe, 410 Sacra-
 mento
Goslinsky E & Co, 219 Battery
Harris Bros, 514 Washington

Helmuth William, 506 Jackson
Klopstock C & Co, 212 Front
Kutner & Goldstein, 427 Battery
Lewis Samuel & Co, 24 Cala
Lewis William & Co, 30 Cala
Liebes Bros & Co, 203 Sacra-
mento

Mann Alexander, 324 Clay
Mayrisch Bros & Co, 405 Bat-
tery

Oppenheimer & Co, N E cor
Front and California

Ordenstein & Co, 306 Battery
Plagemann H & Co, 305 Sacra-
mento

Pollak, Arnold & Co, 206 Sacra-
mento

Poppe Charles, 305 Battery
Riese Bros, 625 Clay

Rosenbaum I S & Co, S E cor
Battery and Clay

Sabin Ferdinand, 802 Montg'y
Sanderson & Horn, 327 Front
Shaeffer J W & Co, 321 Sacra-
mento

Sideman, Lachman & Co, 209
Battery

Siebenhauer L & Co, 222 Bat-
tery

Sikes E & Co, 115 Front

Timke J H & Bro, 611 Sansome
Wertheimer M & Bros, 518
Front

White Isaac K, 221 Sacramento

Cigarette Manufacturers.

Bollman John & Co, 409 Wash-
ington

Diez & Ramon, 416 Battery
Franetta John & Co, 419 Battery
Frohman S & Co, 629 Montg'y
Perazzo J, 1421 Dupont
Rosenthal B, 515 Montgomery

Cloaks and Suits.

Davidson J W & Co, 101
Kearny
Fratinger & Noll, 105 Kearny

Hodge Robert, 10 Fifth
Kramer & Co, 28 Sansome
Mayer Charles, 569 Market
Pacific Cloak and Suit Manu-
facturing Co, 212 Sutter
Sullivan Thomas, 120 Kearny
Verdier Moreau & Co, 100
Montgomery
Wurkheim & Co, 125 Kearny

HODGE'S CLOAK AND SUIT ROOMS,

10 Fifth Street, San Francisco.

Ladies' Suits, from \$4.00 upwards.
Ladies' Calico and Linen Suits embroidered
from \$2.50 upwards.

Special Prices to the Country Trade.

Glock Importers.

(See also Watch Importers.)

Andrews A, 221 Montgomery
Day Thomas, 122 Sutter
Braverman, Louis & Co, 119
Montgomery
Lawton O & Co, 609 Market
Levy, John & Co, 118 Sutter,
Pacific Jewelry Co, 6 Battery
Randolph & Co, 101 Montgom-
ery
Seth Thomas Clock Co, (H. Moli-
neux agent,) 132 Sutter
Shreve George C & Co, 110
Montgomery

Waterbury Clock Co, (A I
Hall & Son agents), 585 Mar-
ket

Clock Manufacturers.

Wenzel Herman (Pneumatic),
328 Kearny

Clothing Importers and Man- ufacturers.

Alexander S O & Co, 4 Battery
Badger W G, 13 Sansome
Banner Bros, N E cor Sansome
and Market

Baum J & Co, 9 Sansome
 Brown Bros, 24 Sansome
 Brown, Nathan & Co, 108 Battery
Colman Bros, N W cor Sutter and Sansome
 Elfelt A B & Co, 108 Sansome
 Fehheimer, Goodkind & Co, 16 Sansome
 Hastings C C & Co, S W corner Sutter and Montgomery
 Hyams Bros, 123 Sansome
 Meyerstein & Lowenberg, 109 Sansome
 Nathan, Pulverman & Co, 29 Battery
Steinhart W & I & Co, 3 Battery
 Straus & Levy, 22 Sansome
Strauss, Levi & Co, 14 Battery

Cloths.

Baumgarten A, 7 Montgomery
 Mason John R, 535 Market
 Reiss, Bros & Co, 115 Sutter
 Stein, Simon & Co, S E cor Market and Second

Coal.

Barnard, F & Co, 213 Jackson
 Bellingham Bay Coal Co, S E cor Folsom and Spear
 Richard N, 16 Howard
 Black Diamond C & M Co, S E cor Folsom and Spear
 Chandler R D, 120 Pacific
 Dunsmuir, Diggle & Co, 620 East
 Eastport Coos Bay Coal Co, 30 Merchant's Exchange
 Ebbets A M, 109 Sacramento
 Gawthorne & Maguire, corner Main & Folsom
 Haste & Kirk, 21 Beale
 Kershaw M, 19 Spear
 Macdonough J, 41 Market
 Newbauer Joseph, 206 Bush
 Ramsdell B H, 110 Jackson
 Renton Coal Co, 22 Sac'to

Rosenfeld John, 302 California
 Seattle Coal and Transportation Co, 32 Market
Selby, Thomas H & Co, 116 California
 Shaw & Sharp, 10 Fremont
 Summerfield A Jr, N E cor Folsom and Spear
 Summerfield L, N E cor Folsom and Spear
Whitney & Marshall, 22 Fremont

Coal Oil.

(See also Groceries.)

Allyne & White, 112 Front
Castle Bros & Loupe, (agents X L N T) 213 Front
Coleman William T & Co, 203 California
Continental Oil and Transportation Co, 123 California
 Dietz A C & Co, 9 Front
Hooper Wm B & Co, 122 Front
 Koster Henry, 412 Sansome
Levi H & Co, (agents Sunlight) 221 Front
 Low C Adolphe & Co, 208 California
 Standard Oil Co, 123 California
 Scofield & Tevis, 120 Front
Yates & Co, 113 Front

Coffee and Spice Mills.

Adelsdorfer & Co, 406 Clay
Bernard Charles, 707 Sansome
 Berton & Lepori, 517 Commercial
 Bothin, Dallemant & Co, 305 Front
 Devers, Koehneke & Allen, 30 Fremont
Folger, Schilling & Co, 104 California
 Gates, Horace & Co, 10 Stevenson
Ghirardelli & Danzel, 415 Jackson

Guittard E & Co, 405 Sansome
 Hanly George T & Co, 214 Sacramento
 Hofen & Co, 412 Clay
 McCarthy Bros, 119 Front
 Montealegre J G, 218 Sacram'to
Seriat Sim & Co, 418 Commercial
 Tyler S H & Son, 221 Commercial
 Venard G, 625 Front

Coffin Manufacturers.

Gray N & Co, 641 Sacramento
 Lockhart & Porter, 29 Bluxome
 Massey Atkins, 651 Sacramento
 McAuliffe & Gard, 516 Eighth
 Pacific Manufacturing Co, 629 Mission

Collar Manufacturers.

(See Paper Collars; also Shirt Manufacturers.)

Colleges—Business.

Barnard's Business College, 120 Sutter
Heald's Business College, 24 Post
Pacific Business College, 320 Post

Commission Merchants.

Arnold N S & Co, 310 Cal'a
 Balfour, Guthrie & Co, 316 Cal'a
 Balzer, Henry & Co, 209 Sansome
Bandmann, Nielsen & Co, 210 Front
 Beadle & Co, 3 Spear
 Bell, Thomas & Co, 305 Sansome
 Brigham, Whitney & Co, 320 Front
 Bryant & Cook, 8 Davis
 Cabrera, Roma & Co, 123 Cal'a
 Campbell W H, 402 Front

Christy & Wise, 607 Front
 Clayton Charles, 400 Front
 Clements G, 318 Front
Coleman Wm T & Co, 203 Cal'a
 Cutting John T & Co, 206 Front
 De Castro. D & Co, 213 Sansome
 De Fremery James & Co, 410 Battery
 De Sabla Eugene, 425 Battery
 Degener & Co, 308 California
Dellepiane & Co, 425 Battery
 Dempster & Keys, 202 Market
 Dibblee Albert, 10 California
Dickson, De Wolf & Co, 412 Battery
 Donaldson & Co, 124 California
Doyle, Henry & Co, 511 Market
 Dresbach & Co, 316 California
 Everding J & Co, 48 Clay
 Falkner, Bell & Co, 430 Cal'a
 Feiling & Henry, 319 Sacramento
Feinberg & Co, 324 Clay
 Flint, Peabody & Co, 408 Cal'a
 Forbes Bros, 308 California
 Freeman, Smith & Co, 122 Cal'a
Getz Bros & Co, 301 Front
 Grace J W & Co, 40 California
 Grinbaum M S & Co, 214 Cal'a
 Gutte I, 307 California
 Haight Robert & Co, 226 Front
Hall A I & Son, 585 Market
 Hellmann Bros & Co, 525 Front
 Hume George W, 309 Sacramento
 Hume R D & Co, 309 Sacramento
 Hussey H P & Co, 205 Front
 Hutchinson, Kohl, Philippeus & Co, 310 Sansome
 Iken Frederick, 506 Battery
 Jackson T W, 304 California
 Jones S L & Co, 207 Cal'a
 Kittle & Co, 202 California
Kruse & Euler, 209 Front
 Lewis Henry L, 215 Sacramento
 Loaiza W, 323 California

E. IRVINE & CO., PHOENIX, A. T., GENERAL MERCHANDISE.

Lohman & Coghill, 313 Front
 Low C Adolphe & Co, 208 Cal'a
 Lund Henry, 214 California
Macondray & Co, 206 Sansome
 Martens F & Co, 427 Front
 Martin, Feusier & Steffani, 309
 Clay
 Mason John R, 541 Market
 McHenry S & Co, 425 Front
 Meade George W & Co, 316
 Washington
 Melczer William, 123 California
 Merrill J C & Co, 204 Cal'a
 Montealegre & Co 230 Cal'a
Moody & Farish, 210 Davis
 Moore A D, 109 California
 Muecke, Vietor & Co, 109 Cal'a
 Newhall's Sons & Co, 309 San-
 some
Oppenheimer Ivan, 45 Clay
 Page, Moore & Co, 211 Clay
Parrott & Co, 306 California
 Pinet J, 508 Jackson
Rodgers, Meyer & Co, 212
 Battery
 Rosenfeld John, 302 California
 Scotchler & Gibbs, 318 Front
 Searles & Stone, 22 California
 Severance H W, 316 California
 Simon & Breslauer, 13 First
Sloss, Louis & Co, 310 San-
 some
 Spafford J M & Co, 310 Clay
 Sperry & Co, 22 California
 Stearns & Smith, 423 Front
 Stevens, Baker & Co, N W cor
 Sacramento and Davis
 Taylor C L & Co, 34 California
 Trejos J & Co, 123 California
 Underhill Jacob, 308 Cal'a
 Urruela & Urioste, 202 Market
 Von Ronn & Hencke Bros, 406
 Front
 Wadhams & Elliott, 206 Front
 Waterman & Co, 113 Clay
 Welch & Co, 109 California
 Wheaton & Luhrs, 219 Front
 Wieland Bros, 326 Front

Wightman Bros, 117 Clay
Williams, Dimond & Co, 202
 Market
 Wolf Philip & Co, 304 Battery
 Wooster, Hubbell & Co, 317
 Front
 Zeigenbein John & Co, 201 Da-
 vis

Confectioners.

(See Candy Manufacturers.)

Copper Works.

Perey Pierre, 308 Market
 Sanders & Co, 421 Mission
 Smith Charles W, 520 Davis
 Tripp George A, 226 Fremont
 Wagner & Todt, 565 Mission

Cordage Manufacturers.

Hallidie A S, (wire) 6 Cal'a
San Francisco Cordage Fac-
tory, Tubbs & Co, 611 Front

Cordials.

Cahen, Louis & Son, 416 Sac-
 ramento
 Jaujou E A & Co, 430 Jackson
Lyons E G & Co, 506 Jackson
 McMillan Donald, 714 Front

Corks.

Bauer J C & Co, 632 Sac'to
 Herrmann & Co, 313 Sac'to
Scherr, Bach & Lux, 535 Sac-
 ramento
Watson & Co, 124 Market

Corkscrew Manufacturers.

Price M, 415 Kearny
 Schintze J H, 10 Stevenson
Will & Finck, 769 Market

Corset Manufacturers.

California Corset Co, 539 Mar-
 ket
 Freud M & Sons, 742 Market

Cotton and Flax Sail Twines

Doyle Henry & Co, 511 Market

Cotton Gill Net Lines.

Doyle Henry & Co, 511 Market

Cracker Manufacturers.

California Cracker Co, 801-817 Battery

Eclipse Cracker Co, 214 Sacramento

Crockery and Glassware.

Ackerman Bros, 123 Kearny
Altschul, Seller & Co, 119 Battery

Cerf J & Co, 517 Market
Daneri Antonio, 420 Battery
Lawton O & Co, 609 Market

Nathan B & Co, 130 Sutter
Reid & Brooks, 524 Sansome
Sanderson & Brother, 310 Battery

Strauss, Kohnstamm & Co, 102 Battery

Swain R A & Co, 112 Cal'a
Wangenheim, Sternheim & Co, 17 Sutter

J. CERF & CO.

Importers and Dealers in

CROCKERY AND GLASSWARE,

Pocket and Table Cutlery.

PLATED WARE, LAMPS, CHINA WARE, AND FANCY PORCELAIN.

517 and 519 Market Street, opp. Battery,
P. O. Box 1439. SAN FRANCISCO.

Curled Hair.

Eureka Hair Factory, 416 Sacramento

Glover & Willcomb, 67 New Montgomery

Keogh John, 73 New Montgomery

Cutlery.

(See also Hardware.)

*Manufacturers

Allen E T, 416 Market
Altschul, Seller & Co, 119 Battery

***Bauer Bros,** 637 Kearny

Cerf J & Co, 517 Market
Daneri Antonio, 420 Battery

***Denniston E G,** 653 Mission
Frankenthal, Bachman & Co, S W cor Cal'a and Battery.

Folkers J H A & Bro, 118 Montgomery

Hoppe Reinhold, 318 Pine

***Kohnke John,** 405½ California
Landers P, 406 Market

Lawton O & Co, 609 Market

Nathan B & Co, 130 Sutter

Price M, 415 Kearny

Sanderson & Bro, 310 Battery

Son Brothers, 300 California
Straus, Kohnstamm & Co, 102 Battery

Swain R A & Co, 112 California
Wangenheim, Sternheim & Co, 27 Sutter

Weil & Woodleaf, 113 Battery

***Will & Finck,** 769 Market

Dental Instruments.

(See Surgical and Dental Instruments.)

Dental Laboratory.

Odermath F A, 37 Post

Die Sinkers.

Giller C L, 420 Montgomery
Hoffman & Schenck, 414 Sacramento

Klumpp William, 235 Kearny

Kuner A, 611 Washington

Pages J F, 648 Sacramento

Robbins F A, 7 First

Wood George M & Co, 120 Post

E. IRVINE & CO., Phoenix, A. T., **AGRICULTURAL IMPLEMENTS.**

L. BASHFORD & CO., PRESCOTT, A. T., Prospecting Outfits Complete.

Distilleries.

California Distilling Co, 321 Battery
 Oberfelder Bros & Co, (agents) 123 California
 Pacific Distilling and Refining Co, 416 Battery
 Potrero Distilling Co, cor Nevada and Minnesota

Doors, Sashes and Blinds.

Bradbury W B, 556 Brannan
 Doe B & J S, 44 Market
 Glade F W, 30 Spear
 Haskell Phineas, cor Bryant and Fifth

Jewell A M & Co, Berry, bet Third and Fourth

Kittredge E H & Co, 113 Mark't
 Knowles G B, S E cor Mission and Main

Macdonald D A & Co, 217 Spear

McKay & Small, 415 Mission
 Meeker W A, S W cor Bryant and Fifth

Prescott & Sanborn, N W cor Howard and Spear

Segars Uriah, 160 Main
 Springer Jason & Co, S E cor Spear and Mission

Turner, Kennedy & Shaw, 840 Fourth

Washburn Albert, Berry, bet Fourth and Fifth

Wells, Russell & Co, S W cor Mission and Fremont

Wilkie Andrew, S W cor Mission and Fremont

Wilson & Bros, 18 Drumm

Drain and Sewer Pipe.

(See Sewer Pipe.)

Drilling Machines.

Woodin L H, 109 Pine

Drills---Rock.

Ingersoll Rock Drill Co, 18 First
 Parke & Lacy, 21 Fremont
 Rankin, Brayton & Co, 127 First

Reynolds L & Co, 16 First
 Richmann Drill and Compressor Co, 25 Stevenson
 Severance H W, 320 Sansome

Drug Mills.

Clapp & Jessup, 51 Fremont
 Gates Horace & Co, 10 Stevenson

Druggists.

Beardsley Geo F & Co, (homeopathic) 44 Geary

Boericke & Tafel, (homeopathic) 234 Sutter

Crane & Brigham, 520 Market
 Downing A F & Son, 14 Second

Gates J R & Co, 417 Sansome
 Langley & Michaels, 101 Front

Mack J J & Co, 11 Front
 Merten, Moffit & Co, 322 Clay

Redington & Co, 529 Market
 Richards C F & Co, 427 Sansome

Wakelee H P & Co, 140 Montgomery

Druggists' Glassware.

(See also Druggists.)

Taylor John & Co, 118 Market

Dry Goods.

Bachman Bros, 10 Battery
 Dannenbaum J & S, 124 Sansome

Dinkelspiel L & Co, 37 Battery
 Feder M M & Co, 33 Battery

Fisher & Baum, 103 Sansome
 Franklin M & Bro, 18 Battery

Goldstone M & Co, 4 Battery
 Heller M & Bros, 112 Sansome

Heynemann, H & Co, 5 Sansome

Hoffman & Co, 17 Battery
Kahn, Bros & Co, 25 Battery
Levinsohn & Meyerstein, 117 Sansome
Murphy, Grant & Co, 100 Sansome
Sachs, Heller & Co, S W corner Battery and Bush
Sheyer M & Bro, 121 Sansome
Strauss Levi & Co, 14 Battery
Weil Bros & Co, 21 Battery

Electric Light Companies.

California Electric Light Co, 119 O'Farrell

Electrical Apparatus Manufacturers.

California Electrical Works, 134 Sutter

CALIFORNIA ELECTRICAL WORKS,

Telegraph and Electrical Engineers AND MANUFACTURERS,

Electro Platers in Nickel, Gold, and Silver, Blasting Machines and Supplies, and Amalgamating Plates for Mines a specialty.

OFFICE AND WORKS, 134 SUTTER ST. PAUL SEILER, Supt. SAN FRANCISCO.

Elevators.

Birch William H, 119 Beale
Garratt W T, 138 Fremont
Hinkle Philip, 116 Main

Embroideries.

(See also Dry Goods.)

Bauer Bros & Co, 547 Market
Cobliner Bros, 543 Market
Kramer & Co, 28 Sansome
Lash H, 537 Market
Muser Bros, 541 Market
Rosenbaum & Co, 22 Battery

Emery Wheels.

Gregory H P & Co, 2 Cal'ia

Engines.

(See Iron Works, also Machine Works.)

Engravers.

Bosqui E & Co, 523 Clay
Britton & Rey, 525 Commercial
Francis, Valentine & Co, 517 Clay
Giller C L, (seal) 420 Montgomery
Goldsmith W E & Son, 26 Montgomery
Hoffmann & Schenck, 414 Sacramento
Kuner A, (seal) 611 Washington
Oliver Henry, 535 Clay
Pettit & Russ, 320 Sansome
Schmidt M & Co, 411 Clay
Van Vleck D, 432 Montgomery
Waldstein A, 320 Sansome
Wood Geo M & Co, 120 Post

C. L. GILLER.

Seal Engraver and Die Sinker

No. 420 Montgomery Street, SAN FRANCISCO.

N. B.—Mr. Giller is known to do the most superior work, at the lowest prices on the Pacific Coast.

A. KUNER,

Seal Engraver & Die Sinker,

No. 611 Washington Street, Thrd Floor. SAN FRANCISCO.

Engravers' Materials.

Wood Geo M & Co, 120 Post

Essence Manufacturers.

Lyons E G & Co, 506 Jackson
McMillan Donald, 714 Front
Rieger P & Co, 511 Front

L. BASHFORD & CO., PRESCOTT, A. T., GENERAL MERCHANDISE.

Eyelets.

Field A & Sons, 511 Market

Fancy Goods.

Bauer Bros & Co, 547 Market
 Cobliner Bros, 543 Market
 Feigenbaum & Co, 120 Sansome
 Frankenthal, Bachman & Co, S
 W cor Battery and California

Jones E H & Co, 535 Market
 Kahn Bros & Co, 25 Battery
 Levinsohn & Meyerstein, 117
 Sansome

Levy M & Co, 109 Battery
 Michels, Friedlander & Co, 7
 Battery

Nathan B & Co, 130 Sutter
 Rosendale A C, 549 Market
 Sachs, Strassburger & Co, S E
 cor Sansome and Pine

Sadler & Co, 605 Market
 Schweitzer, Sachs & Co, 29 San-
 some

Son Brothers, 300 California
 Stevenson & Longwill, 603
 Market

Tobin, Davisson & Co, 6 Sutter
 Weil & Woodleaf, 113 Battery

**Feather Duster Manufact-
 urers.**

Figer Bros, 615 Sacramento
 Kunze Otto E, 646 Mission
 Simpson R W, 325 Sacramento
 Unna Jacob, 157 New Montg'y

Feathers.

Glover & Willcomb, 67 New
 Montgomery

Haker W & Hinz, (fancy) 545
 Market

Held Bros & Co, (fancy) 512
 Market

Jansen Alexander, 48 Second
 Keogh John, 73 New Montg'y
 McCabe Owen, 921 Market

Feed Mills.

California, 415 Battery
 Capitol, 202 Davis
 Laumeister C S, 118 Mission
 Pioneer and Alta, 16 Stevenson
 Washington, N W cor Drumm
 and Washington
 Yolo, N E cor Mission and Main

File Makers.

Doble A, 13 Fremont
 Kelly Martin, 305 Howard
 Pacific Saw Manuf Co, 17 Fre-
 mont

Fire Arms.

(See Guns and Sporting Ma-
 terials.)

Fire Bricks and Clay.

Blochman & Cerf, 10 Drumm
 Davis & Cowell, 211 Drumm
 Gladding, McBean & Co, 1310
 Market
 Holmes H T & Co, 14 Market
 Owens John B, 22 California

Fire Works.

Eckstein Alfred B, 10 Front
 Steele, Elder & Co, 204 Front

Fish Hooks.

Doyle Henry & Co, 511 Market
 Milward Henry & Sons, 511
 Market

Fish Nets, Seines & Twines.

Doyle Henry & Co, 511 Market

Fishing Tackle.

Armes & Dallam, 230 Front
 Clabrough & Golcher, 630
 Montgomery
 Doyle Henry & Co, 511 Market
 Dunn Horace D, 547 Wash-
 ington

Liddle & Kaeding, 538 Wash-
ington

Plate A J & Co, 418 Market
Shreve & Wolf, 214 Bush
Wilson H H & Son, 513 Clay

Flags.

Hanna J & P N, 308 Davis
Norcross & Co, 6 Post
Pasquale B, 650 Washington
Plate A J & Co, 418 Market

Flavoring Extracts.

Cutting Packing Co, 17 Main
Langley & Michaels, 101 Front
Mack J J & Co, 11 Front
Merten, Moffit & Co, 318 Clay
Redington & Co, 529 Market
Rieger P & Co, 511 Front
Southern Joseph N & Co, 124
Market
Thompson Ira D & Son, 414
Front

Flour Dealers.

Bassett Joseph, 221 Clay
Bray Bros, 226 Clay
Bryant & Cook, 8 Davis
Clayton Charles, 400 Front
Ellis M C & Son, 232 Cal'a
Everding J & Co, 48 Clay
Page, Moore & Co, 211 Clay
Pallies A, 318 Davis
Sperry & Co, 22 California
Starr & Co, 16 California
Tenney R P, N E cor Davis
and Market
Waterman M & Co, 113 Clay
Zeigenbein John & Co, 201
Davis

Flour Mills.

Caledonia, (oat meal) 713 San-
some
California, 415 Battery
Capitol, 204 Davis
Genesee, Gold near Sansome

Golden Age, 717 Battery
Golden Gate, 41 First
National, S W cor Battery and
Pacific

Pioneer and Alta, 16 Stevenson
Washington, N W cor Drumm
and Washington

Foundries.

(See Brass Foundries; also Iron
Works.)

**Fringe and Tassel Manu-
facturers.**

Colombat A, 108 O'Farrell
Ettinger S, 105 Post
Fromm & Schafer, 545 Market
Gaeth & Roehrigs, 727 Market
Pacific Fringe Factory, 751
Market

Furnishing Goods.

Alexander S O & Co, 4 Battery
Badger W G, 7 Sansome
Banner Bros, N E cor Sansome
and Market
Baum J & Co, 9 Sansome
Brown Nathan & Co, 108 Bat-
tery
Cohen W & Co, 13 Battery
Colman Bros, N W cor Sutter
and Sansome
Elfelt A B & Co, 108 Sansome
Fisher & Baum, 103 Sansome
Goldstone M & Co, 4 Battery
**Greenebaum, Sachs & Free-
man**, 17 Sansome
Heynemann H & Co, 5 Sansome
Hoffman & Co, 17 Battery
Honig & Baruch, 111 Sansome
Hyams Bros, 218 Sansome
Levy M & Co, 109 Battery
Meyerstein & Lowenberg, 109
Sansome
Michels, Friedlander & Co, 7
Battery
Morison, Hutchinson & Co, 112
Bush

E. IRVING & CO., Phoenix, A. T., AGENTS FOR THE CALIFORNIA POWDER WORKS.

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SAN FRANCISCO.

Neustadter Bros, NW cor Pine
and Battery

Sachs, Heller & Co, S W cor
Battery and Bush

Schweitzer, Sachs & Co, 29
Sansome

Sheyer M & Bro, 324 Sansome

Steinhart W I & Co, 3 Battery

Strauss Levi & Co, 14 Battery

Weil & Michels, 8 Battery

Furniture Manufacturers.

(See also Chair Manufacturers.)

California Furniture Manuf Co,
224 Bush

Chadbourne F S & Co, 735
Market

Easton John, 261 First

Emanuel L & E, 319 Pine

Fifth Street Furniture Manuf
Co, 545 Fifth

Frank Henry, 212 Commercial

Frei Andrew, 231 King

Geishaker Andrew, S W cor
Mission and Main

Gilbert & Moore, 20 Sutter

Granz Herman, 617 Brannan

Heney W J & Co, 14 Ellis

Hufschmidt F, 323 Pine

Jansen Alexander, 48 Second

Johnson A, (Pine) 572 Brannan

Klemm Charles, 148 Bluxome

Knorp A, 411 Mission

Kragen & Geist, 736 Brannan

Linforth & Rawling, 413 Miss'n

Luchsinger John B & Son, 710
Minna

Plum Charles M & Co, 641
Market

San Francisco Furniture Fac-
tory, Berry, bet Third and
Fourth

Shaber J A & Co, 707 Market

Snyder & Reichling, 574 Bran-
nan

Union Furniture Factory, 560
Brannan

Wakefield Rattan Co, 644 Mar-
ket

Weir & Cates, 221 Mission

H. GRANZ,

Furniture Manufacturer,

617 and 619 Brannan Street,

Near Sixth,

SAN FRANCISCO.

A large assortment of Furniture constantly
on hand and manufactured to order.

Furniture Springs.

Blanchard Jules, 44 Fourth

California Spring Manuf Co,

147 New Montgomery

Keogh John, 73 New Montg'y

Pacific Spring and Mattress

Manuf Co, 25 New Mont

Furs.

Alaska Commercial Co, 310
Sansome

Bissinger & Co, 310 Sansome

Cahen Bros, 41 Clay

Koshland Bros, 301 Battery

Newmark J P & Co, 214 Cali-
fornia

Oppenheimer Ivan, 45 Clay

Platshek & Harris, 314 Bat-
tery

Sloss Louis & Co, 310 Sansome

Western Fur and Trading Co,
430 California

Fuse Manufacturers.

California Fuse Association, 16
Front

Eagle Safety Fuse Co, John
Skinker agent, 115 Pine

Galvanized Iron Cornices.

Forderer Joseph F, 53 Beale

Hayes George & Co, 539 Fifth

Pacific Zinc Ornament Factory,
569 Mission

Gas Companies.

San Francisco Gas Light Co, cor
First and Natoma

Gas Fixtures.

Bush David, 22 Post
Day Thomas, 122 Sutter
McNally & Hawkins, 607 Mar-
ket
Nye A F & Co, 315 Pine
Prior James K, 1128 Market

Glass—Plate.

(See also Paints, Oils, and
Glass.)

Gump S & G, 581 Market
Hausmann Bros, 217 Pine
Kelly James R & Co, 221
Market
Rosenbaum Fr H & Co, 567
Market
Whittier, Fuller & Co, 21 Front

Glass Cutters.

Hopper S E, 39½ Fremont
Mallon John, 19 Fremont

Glass Stainers.

Holst W, 118 Main
Hopper S E, 39½ Fremont
Mallon John, 19 Fremont

Glass Works.

San Francisco and Pacific, King
near Fourth

Glassware.

(See Crockery and Glassware.)

Gloss Labels.

Schmidt M & Co, 411 Clay

Glove Manufacturers.

Blumenthal, Quinlan & Co, 10
Bush

Busby Frederick H, 412
Market

Conklin P & F G, (bucksin)
535 Market

Danicheff Glove Factory, Rob-
ert C Clark, (kid) 114 Post

Mills, Leak & Co, 22 Sutter
Philipp, Hesthal & Co, 109
Battery

Shires William, 506 Market
Shoenberg & Co, 106 Battery
Winchill G, 125 Sansome

Glue Manufacturers.

Francis William H, 328 Market

Glycerine.

Bay Soap and Candle Co,
(limited) 116 Front

Gold Dry Washing Machines

Barber C J & E T, (Wauga-
man's Dry Gold Washer) 2
Summer

Eureka Concentrator, J C Mc-
Curdy, 10 Stevenson

Harris James & Co, 308 Mis-
sion

Gold Leaf Manufacturers.

Newman James, 124 Post

Gold Pen Manufacturers.

Baptis John H, 328 Bush
Pearce H D, 137 Montgomery

Gold and Silver Platers.

California Electrical Works,
134 Sutter

Denniston E G, 653 Mission
Shepman W E, 41 Geary

Gold and Silver Refiners.

Johnston William D, 118 Hal-
leck

Price Thomas, 524 Sacramento

E. IRVINE & CO., PHOENIX, A. T., HARDWARE & TINWARE.

Selby Smelting and Lead Co,
416 Montgomery

Gong Manufacturers.

Bell John P & Co, 18 Fremont
Garratt W T, 138 Fremont
Weed & Kingwell, 125 First

Grates.

Montague W W & Co, 110
Battery

Groceries.

Bigley Bros, N E cor Clay and
Davis

Castle Bros & Loupe, 213 Front
Chichizola A, 725 Sansome
Daneri F & Co, 27 California
Dellepiane & Co, 425 Battery
Dodge W W & Co, 401 Front
Ehrman M & Co, 104 Front
Foster S & Co, 26 California
Gibson C W, 205 Sacramento
Haas Brothers, 100 California
Hanley & Snow, 126 California
Hawley C J & Co, 215 Sutter
Hyman Brothers, 216 California
Jennings Thomas, 416 Sansome

Jones & Co, 218 Front
Kruse & Euler, 209 Front
Lennon J A, 313 Clay,
Levi H & Co, 113 California
Lewis Henry L, 215 Sacramento
Lohman & Coghill, 313 Front
Mangels M' & C, 319 Clay
Mau Albert & Co, 212 Market
McKay & Brown, 427 Davis
Meade George W & Co, 316
Washington
Middleton & Co, 521 Front
Newton Brothers & Co, 204
California
Pascal, Dubedat & Co, 426 Jack-
son
Richards & Harrison, 401 Sacra-
mento

Root & Sanderson, 122 Market
Rountree & McClure, 405 Front
Saulnier John & Co, 607 Front
Taber, Harker & Co, 108 Cal'a
Tillmann & Bendel, 407 Clay
Wellman, Peck & Co, 126 Mar-
ket

TABER, HARKER & Co.

IMPORTERS

AND

WHOLESALE GROCERS,

108 and 110 California Street,

SAN FRANCISCO.

Grocers' Sundries.

Mack J J & Co, 11 Front

**Guns and Sporting Mate-
rials.**

Allen E T, 416 Market
Clabrough & Golcher, 630
Montgomery
Curry Nathaniel & Bro, 113
Sansome
Liddle & Kaeding, 538 Wash-
ington
Plate A J & Co, 418 Market
Shreve & Wolf, 214 Bush
Skinker John, 115 Pine
Wilson H H & Son, 513 Clay

CLABROUGH & GOLCHER,

Guns, Rifles, and Pistols,

630 and 632 Montgomery St.

SAN FRANCISCO.

Factory, 15 St. Mary's Square, Birmingham,
England.

A FULL ASSORTMENT OF FISHING TACKLE.

Hand-Cuff Manufacturers.

Daley & Zollner, 134 Sutter

Hardware.

Allen E T, 416 Market
Arnold N S & Co, 310 Califor-
nia

Baker & Hamilton, 13 Front
Caire Justinian, 521 Market
Carolan, Cory & Co, 117 California

Daneri Antonio, 420 Battery
Dunham, Carrigan & Co, 107 Front

Gordon Hardware Company, 250 Market

Hawley Charles A & Co, 412 Market

Holbrook, Merrill & Stetson, 225 Market

Huntington, Hopkins & Co, cor Bush and Market

Landers P, 406 Market

Linforth, Rice & Co, 323 Market

Montague W W & Co, 110 Battery

Richards & Snow, 406 Market

Selby Thomas H & Co, 116 California

Simmons, Rowe & Co, 52 Clay

Tay George H & Co, 101 Cal'a

Underhill Jacob, 308 California

Van Winkle I S & Co, 413 Market

Whitney & Marshall, 22 Fremont

Hardwood Lumber and Veneers.

Wigmore John, 129 Spear

Harness and Saddlery.

Davis William, 410 Market

Johnson J C & Co, 12 Pine

Main & Winchester, 214 Battery

Stone R, 422 Battery

Hats and Caps.

(*Manufacturers.)

Berwin P & Bro, 111 Battery

Fleisher Wolf, 108 Battery

Friedlander Bros, 21 Sansome

***Herrmann C**, 336 Kearny
 Kline Louis & Co, 110 Bush

Kline & Co, 26 Battery

***Meusdorffer J C & Son**, 653 Market

***Meusdorffer M**, 200 Montgomery

Meyer C H & Bros, 28 Sansome

Simon U. Sons & Cook, 3 Sansome

Triest & Co, 116 Sansome

Hatters' Stock.

Kline & Co, 26 Battery

Meusdorffer J C & Son, 653 Market

Meusdorffer M, 200 Montgomery

Hermetically Sealed Goods.

Artigues Canning Co, (meats) 14 S F Market

Banner Packing Co, N W cor Folsom & Spear

Code, Elfelt & Co, 314 Washington

Cutting Packing Co, 17 Main

Dodge, Sweeney & Co, (agents Libby, McNeill & Libby's, Chicago) 114 Market

Hume George W, (agents San José Packing Co) 309 Sacramento

King, Morse & Co, N W corner Broadway and Sansome

Lusk A & Co, 536 Clay

Merry, Faull & Co, (meats) 125 California

Spafford J M & Co, (agents) 310 Clay

Wangenheim Sol. & Co, 118 Davis

Hides.

Bissinger & Co, 310 Sansome

Cahen Bros, 41 Clay

Christy & Wise, 607 Front

E. IRVINE & CO., PHOENIX, A. T., A Full Line of DRY GOODS.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

Clayburgh & Nathan, 320 Battery

Cox J W & Co, 1001 Front

Foley F & Co, 219 Drumm

Frank J & Sons, 406 Battery

Koshland Bros, 301 Battery

Kullman, Salz & Co, 106 Battery

Newmark J P & Co, 214 Cal'a

Nichols A C & Co, 400 Battery

Oppenheimer Ivan, 45 Clay

Platshek & Harris, 314 Battery

Rogers N, 818 Battery

Simon & Breslauer, 13 First

Sloss Louis & Co, 310 Sansome

Sumner W B & Co, 415 Front

Hoisting Works---Builders.

Ætna Iron Works, 217 Fremont

Fulton Iron Works, 220 Fremont

Golden State and Miners' Iron Works, 237 First

Hawkins William, 210 Beale

Pacific Iron Works, 127 First

Reynolds & Rix, 49 Fremont

Risdon Iron and Locomotive Works, S E cor Beale and Howard

Union Iron Works, N E corner First and Mission

Hops.

Bauer J C & Co, 632 Sacramento

Herrmann & Co, 313 Sac'to

Neis Philip, 409 Front

Scherr, Bach & Lux, 535 Sacramento

Horse Power. Manufacturers.

Bodwell H H, 211 Mission

Jackson & Truman, S E cor Sixth & Bluxome

Krogh F W & Co, 51 Beale

Tustin W I, 308 Mission

Horseshoe Nails.

(See also Hardware.)

Carolan, Cory & Co, (agents Northwestern Horseshoe Nail Co) 117 California

Hose.

(* Manufacturers.)

Berry & Place Machinery Co, 323 Market

* Cook A O, 415 Market

* Cook H N, 405 Market

* Detrick E & Co, (cotton) 108 Market

* Goodyear Rubber Co, 577 Market

Gregory H P & Co, 2 Cal'a

* Gutta Percha and Rubber Manufacturing Co, 501 Market

* Neville & Co, (cotton) 31 California

A. O. COOK,

415 Market Street, San Francisco,

LEATHER BELTING,

Leading and Suction

H O S E .

Hose Couplings and Nozzles

Bell John P & Co, 18 Fremont

Garratt W T, 138 Fremont

Weed & Kingwell, 125 First

Hotels.

Ahlborn House, 321 Dupont
 American Exchange, 319 Sansome

Baldwin, N E cor Market and Powell

Bootz's, 435 Pine

Brooklyn, 210 Bush

California, 210 Montg'y Av

Chicago, 220 Pacific

Commercial, 130 Montg'y Av

Franklin, S E cor Sansome and Pacific
Gailhard, 507 Pine
Golden Eagle, 420 Broadway
Grand, S E cor Market and New Montgomery
Hansa, 429 Bush
Helvetia, 431 Pine
Hotel Rhein, 909 Kearny
International, 824 Kearny
Lick House, S W cor Montgomery and Sutter
New Wisconsin, N E cor Pacific and Montgomery
Nucleus House, S E cor Market and Third
Occidental, E s Montgomery, bet Bush and Sutter
Overland House, 531 Sacramento
Palace, S W cor Market and New Montgomery
Philadelphia House, 421 Bush
Prescott House, S W cor Montgomery Av and Kearny
Russ House, W s Montgomery, bet Bush and Pine
What Cheer House, 529 Sacramento

House-Smiths.

Bigelow & Morris, 316 Mission
Jung J C, 110 Main
Kittredge Jonathan, 18 Fremont
Leavitt C H, 225 Beale
Nutting Calvin & Son, 121 Fremont
Sims John R & Son, 123 Beale
Upstone John, 122 Spear

Hydraulic Pipe.

Garratt W T, 138 Fremont
Hall J V, 214 Beale
Smith Francis & Co, 130 Beale
Weed & Kingwell, 125 First

Ink Manufacturers.

Pacific Ink Factory, 617 Bran'n
Patek A, 413 Sixth
Shattuck & Fletcher, printers',
520 Commercial

Insurance Companies.

California Insurance Co, 318 California
Commercial Insurance Co of California, 405 California
Fireman's Fund Insurance Co, 401 California
Home Mutual Fire Insurance Co, 406 California
Pacific Mutual Life Insurance Co of California, 512 Cal'a
State Investment and Insurance Co, 218 Sansome
Union Insurance Co, 416 Cal'a
Western Fire and Marine Insurance Co of California, 409 California

Irish Flax Threads.

Barbour's, 511 Market

Iron and Steel.

Arnold N S & Co, 319 California
Arnold & Flint, 26 Beale
Baker & Hamilton, 13 Front
Carolan, Cory & Co, (agents Pittsburg Steel Works) 117 California
Doble A, 13 Fremont
Dunham, Carrigan & Co, 107 Front
Gibbs George W & Co, 33 Fremont
Huntington, Hopkins & Co, cor Bush and Market
Linforth, Rice & Co, (English Steel, 323 Market)
Montague W W & Co, 110 Battery

E. IRVINE & CO., Phoenix, A. T., Mill and Mining Supplies.

L. BASHFORD & CO., Prescott, A. T., DEALERS IN GRAIN.

Morris H D, (agent Sanderson Bros Steel Co, and Chester Steel Castings Co) 4 Fremont
Reynolds L & Co, 16 First
Selby Thomas H & Co, 116 California
Van Winkle I S & Co, 413 Market
Whitney & Marshall, 22 and 24 Fremont

Iron Barrows.

Upstone John, 122 Spear

Iron Bedsteads.

Clark Truman S & Son, 21 New Montgomery
Kuhling A, 549 Fifth

Iron Doors, Shutters. Etc.

(See House Smiths.)

Iron Railing Manufacturers.

Bigelow & Morris, 316 Mission
Jung J C, 110 Main
Sims John R & Son, 123 and 125 Beale
Upstone John, 122 Spear

Iron Works.

Ætna, Pendergast, Smith & Co, 217 Fremont
Architectural Iron Works, 420 Beale
Atlas, J B Jardine, 135 Beale
City, Low & Chartrey, 26 Fremont
Columbia, Reese Llewellyn, 133 Beale
Empire, Savage & Son, 143 Fremont
Eureka, Thompson Bros, 129 Beale
Fulton, Hinkley, Spiers & Hayes, 220 Fremont

Golden State and Miners' Iron Works, 237 First

Hawkins William, 210 Beale Industrial, McCormick, Lewis & Co, 233 Beale

Jackson, J G IIs, 814 Kearny
Main Street, William Deacon, 133 Main

Mechanics, 217 First
Metropolitan, Curtis Tobey, 228 Fremont

National, Marshutz & Cantrell, N W corner Main and Howard

Novelty, W E Crist & Co, 215 First

Occidental, Steiger & Kerr, 137 First

Pacific, Rankin, Brayton & Co, 127 First

Pacific Stove and Iron Works Co, 228 Main

Pfeiffer & Petterson, 317 Howard

Phoenix, Jonathan Kittredge, 18 Fremont

Pioneer, C H Leavitt, 225 Beale
Pioneer, Calving Nutting & Son, 121 Fremont

Risdon Iron and Locomotive Works, S E cor Beale and Howard,

San Francisco, Sefrin & Shober, 203 Fremont

Tay George H & Co, 616 Battery

Union, Prescott, Scott & Co, N E cor First and Mission

Western, Bigelow & Morris, 316 Mission

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Braverman Louis & Co, 119
 Montgomery
 Dinkelspiel S. B. & Co, 313
 Bush
 Eisenberg A, 206 Kearny
 Haskell & Muegge, 206 Kearny
 Kahn L & M & Co, 126 Kearny
Levison Bros, 134 Sutter
Levy John & Co, 118 Sutter
 Lichtenstein M B & Co, 126
 Kearny
 Nast, Greenzweig & Co, 533
 Market
 Pacific Jewelry Co, 6 Battery
Randolph & Co, 101 Montgom-
 ery
 Sherwood William J, 517 Mont-
 gomery
 Shreve George C. & Co, 110
 Montgomery
 Thompson L, 342 Bush
 Titcomb A C & Co, 24 Post
 Vanderslice & Co, 136 Sutter
 Wolf Joseph, 120 Sutter
Wolf & Loze, 120 Sutter
 Zacharias L. & Bro, 210 Kearny

Jewelry Manufacturers.

Andrews A, 221 Montgomery
Baehr William, 649 Sacra-
 mento
 Bellemere A, 331 Kearny
Braverman Louis & Co, 119
 Montgomery
 Bretonnel J V, 328 Bush
 Bujannoff R, 13 Trinity
 Chapman H, 608 Merchant
 Edwards & Son, 618 Merchant
Elleau H, 208 Sutter
 Hirschman A, 328 Bush
 Koehler & Ritter, 120 Sutter
 Laird D. W., 27 Post
Levison Bros, 134 Sutter
Levy John & Co, 118 Sutter
 Mathieu & Maison, 15 Trinity

Miller Louis Jr, 335 Bush
 Morris B & Co, 643 Sacra-
 mento
Randolph & Co, 101 Mont
 Richter A, 622 Merchant
 Simons Bros & Co, 120 Sutter
 Tuckey Alfred, 13 Trinity
 Vanderslice & Co, 136 Sutter
 Wagner F, 223 Kearny
**Wenzel, Rothschild & Haden-
 feldt**, 37 Post
 Weyl J, 110 Sutter
 Wunsch M. & Co, 111 Sutter

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 porters of Watches, Dia-
 monds, Silverware,
 Clocks, Etc.**

Jewelry Case Makers.

Lochbaum A H, 134 Sutter
Muhs A, 208 Sutter

Lace Manufacturers.

Lash H, 537 Market
Muser Bros, 541 Market

Laces.

(See also Dry Goods.)

Bauer Bros & Co, 547 Market
 Coblener Bros, 543 Market
Hoffmann & Co, 17 Battery
 Jones E H & Co, 535 Market
Muser Bros, 541 Market
 Rosenbaum & Co, 22 Battery
 Sachs, Strassburger & Co, S E
 cor Sansome and Pine
 Schweitzer, Sachs & Co, 29 San-
 some
**Western White Goods Manuf
 Co**, 547 Market

Lamp Manufacturers.

Boesch Emile, 583 Mission

E. IRVINE & CO., Phoenix, A. T., MEDICINES, PAINTS, OILS AND GLASS.

Lamps.

(See also Crockery and Glass Ware.)

Allyne & White, 112 Front
 Dietz A C & Co, 9 Front
 Koster Henry, 410 Sansome
 Yates & Co, 113 Front

Lap Boards.

Hawley C J & Co, (ag'ts Plymouth Lap Board) 215 Sutter

Last Manufacturers.

San Francisco Last Factory, 10 Stevenson
 Wing W H & Co, N E cor Mission and Fremont

Lead Works.

Selby Smelting and Lead Co, 416 Montgomery

Leather.

Bloch & Davidson, 223 Battery
 Cahen Bros, 41 Clay
 Clayburgh & Nathan, 320 Battery
 Cox J W & Co, 1001 Battery
 Danforth & Moore, 8 New Montgomery
 Dolliver & Bro, 573 Market
 Frank J & Sons, 406 Battery
 Getleson & Landis, 543 Market
Hecht Bros & Co, 25 Sansome
 Heinberg B, 303 Battery
 Johnson J C & Co, 12 Pine
 Kullmann, Salz & Co, 106 Battery
 Magee & Moore, 513 Market
 Main & Winchester, 214 Battery
Mattern & Moore, (French) 42 Geary
 Nichols A C & Co, 400 Battery
 Rosseter & Smith, 545 Market
Rued J C, 119 Clay
 Sloss Louis & Co, 310 Sansome

Sternfeld Bros & Co, 539 Market
 Stone R, 422 Battery
 Sumner W B & Co, 415 Front
 Williams Bros, 569 Market

Lime.

Blochman & Cerf, 10 Drumm
 Davis & Cowell, 211 Drumm
 Holmes H T & Co, 14 Market

Liquors.

(See also Wines—Native.)
 Allen D H & Co, 322 Front
 Anduran C & Co, 515 Sacramento
 Bach, Meese & Co, 321 Montgomery
 Benhayon & McGlennon, 623 Sansome
Brickwedel Henry & Co, 208 Front
 Brooks, York & Co, 315 Cal'a
 Buneman H & Co, 321 Battery
Carroll, Abrams & Carroll, 3 Front
Cartan, McCarthy & Co, 511 Sacramento
 Cassin P J, S W cor Battery and Washington
 Chauché A G, 615 Front
Chevalier F & Co, 520 Washington
 Chielovich E & Co, 601 Front
 Commins & O'Connor, 204 Market
 Crane, Hastings & Co, 121 California
 Daneri F & Co, 27 California
 Denaveaux & Maison, N W cor Jackson and Sansome
Dickson, De Wolf & Co, 412 Battery
Dodge W W & Co, 401 Front
 Fargo E A & Co, 316 Front
Fenkhausen & Braunschweiger, 414 Front
 Fisher W J & Co, 407 Front

Frapolli & Co, 710 Sansome
 Gilman, Walker & Co, S W cor
 California and Front
 Goodwin M & Co, 407 Battery
 Grange N, 711 Sansome
Gundlach J & Co, S E cor Mar-
 ket and Second
Haraszthy Arpad & Co, 530
 Washington
 Hoelscher William & Co, 504
 Market
Hooper Wm B & Co, 122 Front
 Hotaling A P, 429 Jackson
 Jaujon E A & Co, 430 Jack-
 son
Kane, O'Leary & Co, 221 Bush
 Kelly & Egan, 604 Battery
 Kelly & Gilchrist, 309 Front
 Kenny John, 605 Front
 Kowalski & Co, 526 California
 Lang & Co, 212 Dupont
 Lilienthal & Co, 100 Front
 Livingston & Co, 220 California
 Loewe Brothers, 217 Battery
Lyons E G & Co, 506 Jack-
 son
 Mandlbaum F, 312 Sacramento
Martin E & Co, 408 Front
 Meinecke Charles & Co, 314
 Sacramento
 Moon, Scully & Co, 316 Sacra-
 mento
 Moore, Hunt & Co, 417 Mar-
 ket
 More, Reynolds & Co, 212 Cali-
 fornia
 Naber, Alfs & Brune, 413
 Front
 Oberfelder Bros & Co, 123 Cali-
 fornia
 Pascal, Dubedat & Co, 426
 Jackson
 Pestner & Hildebrandt, 411
 Battery
 Porter David, 405 Montgomery
 Rebstock, Endres & Co, 322
 Sansome
 Renz J, 219 Commercial

Richards & Harrison, N W cor
 Sansome and Sacramento
 Roth & Co, 214 Pine
 Ruhl Bros, 522 Montgomery
 Sabatie P G & Co, 330 Bush
Saulnier John & Co, 607 Front
 Schroder Henry & Co, 619 San-
 some
 Schultz William A, 523 Front
 Schultz & Von Bargaen, S E cor
 Front and California
Shea, Bocqueraz & McKee, S
 W cor Front and Jackson
Siebe Bros & Plagemann, 328
 Sansome
 Silliman F W & Co, 516 Wash-
 ington
Spruance, Stanley & Co, 410
 Front
Sroufe & McCrum, 208 Market
 Taussig Louis & Co, 205 Bat-
 tery
Thacher George & Co, 322
 Clay
Van Bergen N & Co, 413 Clay
Vignier A, 429 Battery
Walter M & Co, 625 Sansome
 Ward William & Co, 509 Sacra-
 mento
 Warde M & Co, 313 Battery
 Weil Bros, 213 Jackson
 Wichman & Lutgen, 321 Clay
 Wicker Bros, 702 Front
 Wilhelmi H & Co, 109 Cal'a
Wilmerding & Co, 214 Front
 Wolters Bros & Co, 221 Cali-
 fornia

Lithographers.

Bancroft A L & Co, 721 Market
Bosqui E & Co, 523 Clay
 Britton & Rey, 525 Commercial
Crocker H S & Co, 215 Bush
 Galloway W T, 540 Clay
 Korbel F & Bros, 308 Battery
Schmidt M & Co, 411 Clay and
 412 Commercial
 Waldstein A, 320 Sansome

M. SCHMIDT & CO.

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Locks.

Hall Safe and Lock Co, 211 California

Kittredge Jonathan, 18 Fremont

Leavitt C H, 225 Beale

Paige S B & Co, 8 New Montgomery

Sims John R & Son, 123 Beale

Lumber.

Adams W J, pier, 17 Steuart

Dean E B & Co, 22 California

Derby E M, 226 Clay

Dingley C L, pier 10 Steuart

Doe Charles F, S W cor Spear and Howard

Dolbeer & Carson, 22 California

Falk, Chandler & Co, 128 Steuart

Hanson, Ackerson & Co, pier 11 Steuart

Harmon S H, pier 13 Steuart

Hinsdale & Co, 22 California

Holt Bros, (carriage) 27 Beale

Hooper C A & Co, cor Fourth and Channel

Hooper F P & J A, pier 2½ Steuart

Jackson J G, pier 4 Steuart

Kentfield John & Co, pier 9 Steuart

Knowles G B, S E cor Mission and Main

Mastick S L & Co, pier 10 Steuart

Mendocino Lumber Co, 40 California

Morrison J J, N E cor Mission and Spear

Neylan James, 18 Spear

Pope & Talbot, 204 California

Preston & McKinnon, pier 5 Steuart

Redwood Lumber Co, 10 Market

Renton, Holmes & Co, pier 3 Steuart

Sierra Lumber Co, N E corner Fourth and Channel

Simpson A M & Bro, 44 Market

Springer Jason & Co, S E cor Spear and Mission

Starbird & Goldstone, 107 Market

Straut W E, (carriage) N W cor Sacramento and Drumm

Tichenor H B & Co, 42 Market

Turner, Kennedy & Shaw, 840 Fourth

Waterhouse & Lester, (carriage) 29 Fremont

White Bros, (carriage) 13 Main

Wigmore John, (hard wood and veneers) 129 Spear

Winslow William, pier 2½ Steuart

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California Italian Paste Co, 415
 Battery

Ravenna, Ghirardelli & Co,
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Tenthorey J P & Co, 558 Mis-
 sion

Machine Works.

(See also Iron Works.)

Birch William H, (California)
 119 Beale

Clot & Meese, 303 Mission
 Goss & Adams 114 Beale

Hawkins William, 210 Beale

Heald I A, 514 Commercial
 Hedges & Dillenburg, 32 Fre-
 mont

Kallenberg Theodore, 32 Fre-
 mont

Ohmen W H, 109 Beale
 Periam C J, 318 Mission

Rice H W, 56 Bluxome
 Robbins F A, 7 First

Small I H, 574 Brannan
 Tait & Hainque, 115 Beale

Thomson & Evans, 110 Beale
 Walkington S B, 109 Mission

Machinery.

(See also Iron Works, also Ma-
 chine Works, also Mining
 Machinery.)

Arnold N S & Co, 310 Cal'a

Baker & Hamilton, 13 Front

Berry & Place Machinery Co,
 323 Market

Fish A L, 9 First

Gregory H P & Co, 2 Cal'a

Hedges & Dillenburg 32 Fre-
 mont

Huntington, Hopkins & Co,
 cor Market and Bush

Marwedel C F, 56 First

Mc Cone Robert, 403 Beale

Parke & Lacy, 21 Fremont
Reynolds & Rix, 49 Fremont
 Steen E T, 107 Beale
Tatum & Bowen, 12 California

Machinist's Supplies.

**Berry & Place Manufacturing
 Co,** 323 Market

Dunham, Carrigan & Co, 107
 Front

Fish A L & Co, 9 First

Gregory H P & Co, 2 Cal'a

Marwedel C F, 56 First

Parke & Lacy, 21 Fremont

Reynolds & Rix, 49 Fremont

Savage & Son, 143 Fremont

Malt Manufacturers.

Scherr, Bach & Lux, 535 Sac-
 ramento

Zwieg Hermann, 608 Brannan

Mantels---Marbleized Iron.

Montague W W & Co, 112
 Battery

**Map Mounters and Picture
 Framers.**

Walkup W B & Co, 543 Clay

Ward V & Co, 508 Montg'y

Match Manufacturers.

Harrison & Dickson, 210 Sac-
 ramento

Hofen & Co, 412 Clay

Newbauer & Co, 206 Sacra-
 mento

**Mathematical Instrument
 Manufacturers.**

Kahn Brod & Co, 335 Bush

Rahsskopf Carl, 412 Commer-
 cial

Roach John, 429 Montgomery

Schmolz William, 420 Montg'y

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Mattress Makers.

Beal Samuel, 49 Second
 California Furniture Manuf Co,
 226 Bush
 Clark Truman S & Son, 21 New
 Montgomery
 Frank Henry, 212 Commercial
Jansen Alexander, 48 Second
 Pacific Spring and Mattress
 Manuf Co, 25 New Mont-
 gomery

Mercantile Agencies.

Bradstreet (The) Company,
 230 California
Edwards, Pickens & Fulton,
 401 California
The Mercantile Agency,
 (Dun's) 320 California

Metallurgists.

Bisbee, Williams & Co, 32
 Merchants' Exchange
 California Metallurgical Works,
 43 Fremont
Falkenau & Reese, 328 Mont-
 gomery
Hofmann Bros, 415 Mission
Johnston William D, 118 Hal-
 leck
Kuh Leopold, 611 Commercial
Kustel & Riötte, 318 Pine
Luckhardt C A & Co, 23 Ste-
 venson
Morrow & Strong, 115 First
Mosheimer J, 507 Montgomery
Price Thomas, 524 Sacramento
Selby Smelting and Lead Co,
 416 Montgomery
Strong & Co, 10 Stevenson

Metals.

(See also Hardware; also, Iron
 and Steel)
Pacific Metal Works, Morrow
 & Strong, 115 First

Military Goods.

Ettinger S, (trimmings) 105
 Post
Norcross & Co, 6 Post
Pasquale B, 650 Washington
Plate A J & Co, 418 Market

Mill Supplies.

(See also Hardware.)
Berry & Place Machinery Co,
 323 Market
Egerton Henry C, 109 Cali-
 fornia
Huntington, Hopkins & Co.
 cor Bush and Market
Marwedel C F, 56 First
Wagner Joseph & Co, 105
 Mission

Millinery Goods.

Cobliner Bros, 543 Market
Haker W & Hinz, 545 Market
Held Bros & Co, 512 Market
Held & Co, 526 Market
Toplitz F & Co, 571 Market

Millwrights.

Malter, Lind. & Co, 419 Cali-
 fornia
Wagner Joseph & Co, 105
 Mission
White, Mee & Patton, 318
 Pine

**Mining and Engineering
 School.**

Van der Naillen A, 24 Post

Mining Machinery.

(* Manufacturers.)
***Ætna Iron Works**, 217 Fre-
 mont
Berry & Place Machinery Co,
 323 Market
***California Machine Works**,
 119 Beale

- *Fulton Iron Works, 220 Fremont
- *Golden State and Miners' Iron Works, 237 First
- Gregory H P & Co, 2 Cal'a
- *Hawkins William, 210 Beale
- *Hendy Joshua, 49 Fremont
- *Huntington F A, 220 Fremont
- *Novelty Iron Works, 215 First
- *Pacific Iron Works, 127 First
- Parke & Lacy, 21 Fremont
- *Reynolds & Rix, 49 Fremont
- *Risdon Iron and Locomotive Works, S E cor Beale and Howard
- *Savage & Son, 143 Fremont
- *Union Iron Works, N E cor. First and Mission

Mining Supplies.

- Dunham, Carrigan & Co, 107 Front
- Egerton Henry C, 109 Cal'a
- Huntington, Hopkins & Co, cor Bush and Market
- Linforth, Rice & Co, 323 Market
- Reynolds & Rix, 49 Fremont

Mirrors.

- Gump S & G, 581 Market
- Hausmann Bros, 217 Pine
- Rosenbaum Fr H & Co, 567 Market
- Sanborn Vail & Co, 857 Market
- Whittier, Fuller & Co, 21 Front

Model Makers.

- Heald I A, 514 Commercial
- Howland R, 259 First
- Peterson, L, 328 Bush

Musical Boxes.

- Juillerat A E, 23 Dupont

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Musical Boxes Carefully Repaired.
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Mustard.

- Burr C C & Co, 13 Pine
- Fisher J H, (French and German) 109 Commercial
- Ghirardelli & Danzel, 415 Jackson

Needles.

- Doyle Henry & Co, 511 Market
- Milward Henry & Sons, 511 Market

Notarial and Lodge Seals and Steel Stamps.

- Truworthy F M, 318 Front

Oil.

(See also Coal Oil, also Paints, Oil and Glass.)

- Bay Soap and Candle Co, (red oil) 116 Front
- Orrick O S, (lubricating) 403 Market
- Pacific Oil and Lead Works, (linseed and castor) 202 California

Oil Cloth.

(*Manufacturers.)

- *Hartshorn & McPhun, 861 Market
- Sloane W & J, 525 Market
- Walter D N & E & Co, N W cor Battery and Market

Oil Clothing

- Asher S, 325 Davis
- Marks M, 52 Clay

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L. BASHFORD & CO., PRESCOTT, A. T., GENERAL MERCHANDISE.

Sutton Charles Jr & Co, 32 California

White James F, 111 Clay

Optical Instrument Manufacturers.

Berteling & Watry, 427 Kearny

Kahn Brod & Co, 325 Bush

Roach John, 429 Montgomery

Ore Concentrating Machinery.

Adams & Carter, 109 California

Hendy Joshua, 49 Fremont

Steiger & Kerr, 137 First

Ore Feeders.

Ætna Iron Works, 217 Fremont

Fulton Iron Works, 220 Fremont

Golden State and Miners' Iron Works, 237 First

Hendy Joshua, 49 Fremont

Pacific Iron Works, 127 First

Risdon Iron and Locomotive Works, S E cor Beale and Howard

Ore Furnaces.

Ætna Iron Works, 217 Fremont

Dodge M B, 143 Fremont

Fulton Iron Works, 220 Fremont

Golden State and Miners' Iron Works, 237 First

Pacific Iron Works, 127 First

Risdon Iron and Locomotive Works, S E cor Beale and Howard

Ore Sacks.

Detrick E & Co, 108 Market

Hanna J & P N, 308 Davis

White James F, 111 Clay

Ore Samplers and Crushers

Hofmann Bros, 415 Mission

Luckhardt C A & Co, 23 Stevenson

Organs.

(*Manufacturers.)

Antisell T M & Co, N W cor Powell and Eddy

Badger W G, 13 Sansome

Bancroft A L & Co, 721 Mark't

*Bergstrom John, (church) cor Mission and 29th

Gray Matthias, 117 Post

Kohler & Chase, 137 Post

*Mayer Joseph, 127 Page

Sherman, Clay & Co, 139 Kearny

Woodworth, Schell & Co, 105 Stockton

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Orrick O S, 403 Market

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Pacific Rubber Paint Co, 21 Front

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Taylor S P & Co, 414 Clay

Paper Bags.

(* Manufacturers.)

Armes & Dallam, 230 Front

* **Blake, Robbins & Co**, 516 Sacramento

Bonestell, Allen & Co, 413 Sansome

* **Taylor S P & Co**, 414 Clay

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Thiebault Carl, 744 Mission

Waizman M, 539 Market

Wempe Bros, 569 Market

Paper Collar Manufacturers

Atkinson L & Co, 22 Sansome
New York and S F Collar Co,
6 Battery

Wempe Bros, 569 Market

Paper Hangings.

Clark George W, 645 Market

Hartshorn & McPhun, 861 Market

Walter D N & E & Co, N W cor Battery and Market

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Currier A, 103 Dupont

Dampf L & Co, 638 Market

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Boone & Osborn, 320 California

Dewey & Co, 202 Sansome

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Franco - American Perfumery Co, 109 Battery

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(* Manufacturers.)

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Badger W G, 13 Sansome

Bancroft A L & Co, 721 Market

Benham A M, 647 Market

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 * Hall C R, 16 Tyler
 Kohler & Chase, 137 Post
 * Long S H, 1815 Washington
 * Rudolf G & Co, 107 Stockton
 Sherman, Clay & Co, 139
 Kearny
 Woodworth, Schell & Co, 105
 Stockton
 * Zech Jacob, 211 Ninth

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 urers.**

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 ington
 Dampf L & Co, 638 Market
 Davis Bros, 718 Market
 Gump S & G, 581 Market
 Hausmann Bros, 217 Pine
 Lippi Bros, 749 Market
 McEachran & Rowe, 132 Main
 McKay & Small, 415 Mission
 Nile M D, S E cor Montgomery
 Av and Chestnut
 Sanborn, Vail & Co, 857 Mar-
 ket

Pictures.

Burkardt Max, 545 Wash-
 ington
 Gump S & G, 581 Market
 Sanborn, Vail & Co, 857 Mar-
 ket

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Bradbury W B, 556 Brannan
 California Mills, NW cor How-
 ard and Spear
 Fulda Bros & Co, 34 Spear
 Glade F W, 30 Spear
 Hansen M & A, 130 Main
 Hardenburgh Isaac, 134 Main
 Jewell A M & Co, Berry bet
 Third and Fourth
 Macdonald D A & Co, 217
 Spear
 Meeker W A, cor Bryant and
 Fifth
 Washburn Albert, Berry bet
 Fourth and Fifth
 Wells, Russell & Co, S W cor
 Mission and Fremont
 Wetherbee G M, NW cor Fifth
 and Bryant

Plumbers' Materials.

Day Thomas, 122 Sutter
 Dunham, Carrigan & Co, 107
 Front
 Garratt W T, 138 Fremont
 Holbrook, Merrill & Stetson,
 225 Market
 Richards & Snow, 406 Market
 Weed & Kingwell, 125 First

Pool Tables.

Liesenfeld P, 945 Folsom
 Strahle Jacob & Co, 533 Mar-
 ket
 The J M Brunswick & Balke
 Co, 653 Market

Potteries.

- Gladding, McBean & Co,** 1310 Market
- Owens John B,** 24 California
- Stevens W E,** N E cor Market and Larkin
- Williams J B,** 400 Thirteenth, Oakland

Powder Manufacturers.

- California Powder Works,** 230 California
- California Vigorit Powder Co,** English & Wright ag'ts, 327 Pine
- Dupont Powder Co,** John Skinker agent, 115 Pine
- Eureka Powder Co of California,** 310 Pine
- Excelsior Powder Co,** 40 Merchants' Exchange
- Giant Powder Co,** (Bandmann, Nielsen & Co ag'ts, 210 Front
- Granite Powder Co,** 309 Sac'to
- Hazard Powder Co,** Thos H Selby & Co agents, 116 Cal'a
- Safety Powder Co,** 202 Sansome
- Thunder Powder Co,** 606 Montgomery
- Tonite Powder Co,** 218 Cal'a
- Union Powder Co,** 40 Cal'a
- Vulcan Powder Co,** 218 Cal'a
- Warren Powder Co,** R H Yates agent, 24 Merchants' Exch'ge

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BANDMANN, NIELSEN & CO.

General Agents.

Provisions.

(See also Groceries.)

- Brigham, Whitney & Co,** 320 Front

- Dodge, Sweeney & Co,** 114 Market
- Feiling & Henry,** 319 Sac'to
- Getz Bros & Co,** 301 Front
- Haight Robert & Co,** 226 Front
- Hentrich L,** (packers) 513 Front
- Martin, Feusier & Steffani,** 309 Clay
- Merry, Faull & Co,** (packers) 125 California
- Michelssen, Brown & Co,** (packers) 308 Front
- San Francisco Packing and Provision Co,** 519 Wash'ton
- Stearns & Smith,** 423 Front
- Steele, Elder & Co,** 204 Front
- Wieland Bros,** 326 Front
- Wilson J Y & Co,** (packers) 508 Market
- Wooster, Hubbell & Co,** 317 Front

Pumps.

- Bachelor Manf. Co,** 13 Fremont
- Berry & Place Machinery Co,** 323 Market
- Bodwell H H,** 211 Mission
- Fulton Iron Works,** 220 Fremont
- Garratt W T,** 138 Fremont
- Greenberg & Co,** 205 Fremont
- Gregory H P & Co,** 2 Cal'a
- Hedges & Dillenburg,** 32 Fremont
- International Water Elevating Co,** 202 Bush
- Jewel A M & Co,** (wooden) Berry, bet 3d and 4th
- Krogh F W & Co,** 51 Beale
- Linforth, Rice & Co,** 323 Market
- Montague W W & Co,** 110 Battery
- Parke & Lacy,** 21 Fremont
- Tustin W I,** 308 Mission
- Woodin & Little,** 109 Pine

E. IRVINE & CO., PHOENIX, A. T., HARDWARE & TINWARE.

L. BASHFORD & CO., PRESCOTT, A. T., Headquarters of Mining Men.

Quartz Mill Builders.

- *Aetna Iron Works, 217 Fremont
- Fulton Iron Works, 220 Fremont
- Golden State and Miners' Iron Works, 237 First
- Huntington F A, 220 Fremont
- Pacific Iron Works, 127 First
- Risdon Iron and Locomotive Works, S E cor Beale and Howard

Ranges.

(See Stoves and Ranges.)

Reflector Manufacturers.

- Boesch Emile, 583 Mission

Regalia and Lodge Supplies.

- Norcross & Co, 6 Post
- Pasquale B, 650 Washington
- Plate A J & Co, 418 Market

A. J. PLATE & CO.

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Military, Masonic, and Society Goods,

LODGE SUPPLIES AND REGALIAS.

Guns, Pistols, and Sporting Goods,
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Rolling Mills.

- Pacific Rolling Mill Co, 202 Market

Rubber Goods.

- Goodyear Rubber Co, 577 Market
- Gregory H P & Co, 2 Cal'a
- Gutta Percha and Rubber Manuf'g Co, 501 Market

Rubber Stamp Manufacturers.

- Hanks M W & Co, 34 Merchant's Exchange
- Klinkner C A & Co, 320 Sansome

- Oakley A D, 712 Montgomery
- Sheplar S H & Co, 702 Market
- Truworthy F M, 318 Front

Ruching Manufacturers.

- Muser Bros, 541 Market
- Western White Goods Manufacturing Co, 547 Market

Safes.

(*Manufacturers.)

- Bryant & Taylor, 312 California
- *Hall's Safe and Lock Co, 211 California
- *Kittredge Jonathan, 18 Fremont
- *Leavitt C H, 225 Beale
- Paige S B & Co, 8 New Mont
- Raymond & Wilshire, 115 Front
- *Sims John R & Son, 123 Beale

Salmon Net Twines.

- Barbour's, 511 Market

Salt.

- Alvarado Salt Works, Getz Bros & Co, agents, 301 Front
- American Salt Co, 217 Sac'to
- Carmen Island Salt Works, 207 Front
- Pioneer Salt Works, 211 Sacramento
- Union Pacific Salt Co, 216 Sacramento

Saw Manufacturers.

- American Saw Co, 24½ Spear
- Pacific Saw Manuf Co, 17 Fremont
- Spaulding N W, (circular) 17 Fremont
- Webster W W, 39½ Fremont

Saw Mill Builders.

- Huntington F A, 220 Fremont
- Small I H, 574 Brannan

Saw Mill Machinery.

Berry & Place Machinery Co,
323 Market
Gregory H P & Co, 2 Cal'a
Hendy Joshua, 49 Fremont

Scales.

Fairbanks & Hutchinson, 401
Market
Parkhurst, V S W, 416 Market

Screen Manufacturers.

Quick John W, 32 Fremont

Scroll Sawyers.

Kemp J & Co, 109 Mission

Seeds.

Vincent Sevin & Co, 607 Sansome

Sewer Pipe Manufacturers.

Gladding, McBean & Co, 1310
Market

Owens John B, 24 California
Stevens W E, N E corner Market and Larkin

Williams J B, 400 Thirteenth,
Oakland

J. B. WILLIAMS,

400 to 406 Thirteenth St., Oakland,
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Native and Browell Patent Chimneys,

AND ALL KINDS OF

VITRIFIED IRON-STONE SEWER PIPE.

State and County Rights For Sale.

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Automatic S M Co, 124 Post

Davis S M Co, 130 Post

Domestic S M Co, 29 Post

Hill Samuel, General Agency
for the White, New Home,
Crown, Wilson, Florence, Victor,
Weed, and other leading
kinds, 634 Market

New Eldridge S M Co, 26 New
Montgomery

Remington S M Co, 30 Second
**The Singer Manufacturing
Co,** 116 Sutter

**Wheeler & Wilson Manufactur-
ing Co,** 20 Geary

Willcox & Gibbs S M Co, 124
Post

The "AUTOMATIC"

Send for Descriptive Circular and
Price List.

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124 POST STREET,
San Francisco, Cal.

Sewing Silk.

Brown & Metzner, (Corticelli)
549 Market

**California Silk Manufacturing
Co,** 585 Market

Carlson & Currier, (Belding
Bros) 565 Market

Sheet Iron Pipe.

Smith, Francis & Co, 130 Beale

FRANCIS SMITH & CO.

MANUFACTURERS OF

SHEET IRON PIPE,
All Sizes.

No. 130 Beale Street, San Francisco.

Iron cut, punched and formed, for making
Pipe on ground where required. All kinds of
Tools supplied for making Pipe. Estimates
given when required. Are prepared for coating
all sizes of Pipes with a composition of Coal
Tar and Asphaltum.

Shirt Manufacturers.

Atkinson L & Co, 22 Sansome
Jacobs M & Son, 20 Sansome
Morison, Hutchinson & Co, 112
Bush

Neustadter Bros, N W cor Bat-
tery and Pine

Shirek & Tonner, 124 Sansome
Stolz & Weidenreich, 202 Bush
Weil, Leiter & Co, 521 Market

E. IRVINE & CO., Phoenix, A. T., A Full Line of DRY GOODS.

L. BASHFORD & CO., Prescott, A. T., MILL AND MINING SUPPLIES A SPECIALTY.

Shoe Findings.

Cahn, Nickelsburg & Co, 31 Battery
 Dolliver & Bro, 573 Market
 Getleson & Landis, 543 Market
Hecht, Bros & Co, 25 Sansome
 Magee & Moore, 513 Market
Mattern & Moore, 42 Geary
 Nichols A C & Co, 400 Battery
 Rosseter & Smith, 545 Market
 Williams Bros, 569 Market

Shoe Nails and Tacks.

Field A & Sons, 511 Market

Shot Manufacturers.

Selby Smelting and Lead Co,
 416 Montgomery

Show Case Manufacturers.

Ankers C, 937 Market
Dixon & Bernstein, 250 Market
Faust J L & Co, 538 California
 Furlong & Manseau, 819 Market
 Miller J M & Son, 545 Cal'a
 Proll William, 537 California
Teubner & Hoffman, 532 Cal'a

DIXON & BERNSTEIN,

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250 and 252 Market Street,
 12 and 14 Front Street,
 SAN FRANCISCO.

Silk Manufacturers.

California Silk Manufacturing
 Co, 585 Market

Silver Ware.

(See also Jewelry Importers.)
Braverman, Louis & Co, 119
 Montgomery

Levy John & Co, 118 Sutter
Randolph & Co, 101 Montgomery

Silversmiths.

Koehler & Ritter, 120 Sutter
 Kroger F & Co, 13 Trinity
 Levison Bros, 134 Sutter
Shulz & Fischer, 513 Market
 Vanderslice & Co, 136 Sutter

Smelting and Lead Works.

Selby Smelting and Lead Co,
 416 Montgomery

Soap Manufacturers.

Alta Soap Co, 109 Oregon
Bay Soap and Candle Co,
 (limited) 116 Front
 Bettman M, 311 Commercial
Commercial Soap Co, 223 Sacra-
 mento
 Houston W J & Co, (agents
 Royal Soap Co) 215 Cal'a
Lucy G R & Co, 123 Cal'a
 Mission Soap & Candle Works,
 108 Bush
New England Soap Factory,
 cor Sixteenth and Nebraska
 Newell & Bro, 221 Davis
Petersen William J, 421 Clay
Pioneer Soap Co, 708 Brannan
 Smith, Lucy & Co, 405 Front
Standard Soap Co, 204 Sac'to
Welsh Michael, S W cor Utah
 and El Dorado

"THE EIGHTH WONDER."

"Thomas' Cool Water Bleaching Soap,"

Also the Largest assortment of

LAUNDRY AND TOILET SOAPS

Made in the World by

THE STANDARD SOAP CO.

204 Sacramento Street, San Francisco.

Soda and Saleratus.

Pacific Soda Co, 767 Bryant
 Tyler S H & Son, 221 Commer-
 cial

Spool Cotton.

Clark George A & Brother,
511 Market
Mason John R, (agent John
Clark Jr & Co, 541 Market

Spring Beds.

Clark Truman S & Son, 21 New
Montgomery
Nachman A, 77 New Montgom-
ery
Pacific Spring and Mattress Co,
25 New Montgomery

Stair Builders.

Hurley D J, 134 Main
Jesse & Drew, Berry, bet 3d
and 4th
Langland N P, 407 Mission
McGuire, Arthur, 415 Mission

**JESSE & DREW,
STAIR BUILDERS**

South Point Mill, Berry St., bet. 3rd and 4th.

Constantly on hand and made to order,
Stair Rails, Posts, Balusters, etc. Estimates
made on all kinds of Mill Work. Orders
from the Country promptly attended to.

Stair Builders' Stock.

Wigmore John, 129 Spear

Starch.

Buffalo Grape Sugar Starch Co,
205 Front
Egerton Henry C, (Duryea's)
109 California
Everding J & Co, 48 Clay
Illinois Starch Co, 215 Cal'a
Oswego Starch Co, 116 Front
Titcomb & Co, (Peoria) 203
Sacramento

Stationers.

Bancroft A L & Co, 721 Market
Carlisle A & Co, 221 Sansome
Crocker H S & Co, 215 Bush

Cunningham, Curtiss & Welch,
327 Sansome
Denny Edward & Co, 512 Sac-
ramento
Dutton & Withington, 306 Cali-
fornia
Frank & Co, 400 Sansome
Hodge John G & Co, 314 Cal'a
Le Count Bros, 417 Montg'y
Leary A J, 402 Sansome
Payot, Upham & Co, 204 San-
some
Sadler & Co, 605 Market
San Francisco News Co, 413
Washington
Son Brothers, 300 California
Stevenson & Longwill, 603
Market

Stencil Cutters.

Hoffmann & Schenk, 414 Sacra-
mento
Klinkner C A & Co, 320 San-
some
Ridley A E & Co, 323 Front
Truworthy F M, 318 Front
Wood George M & Co, 120
Post

**Stencil and Key Check
Stock.**

Wood George M & Co, 120
Post

Stoves and Ranges.

(* Manufacturers.)

De La Montanya J, 214 Jackson
Goodrich Taylor, 254 Market
Holbrook, Merrill & Stetson,
225 Market
***Jewett Sherman S & Co,** 120
Battery
Montague W W & Co, 110
Battery
***Pacific Stove and Iron Works**
Co, 228 Main
Prag Marten, 125 Clay

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300

SAN FRANCISCO.

Ray W S & Co, 12 Market
Savage & Son, 137 Fremont
*Tay George H & Co, 101 California

Sugar Refineries.

American Sugar Refinery, 208 California
California Sugar Refinery, 327 Market
Standard Sugar Refinery, 16 Front

Surgical and Dental Instruments.

Folkers J H A & Bro, 118 Montgomery
Will & Finck, 769 Market

Surveying Instruments.

Rahsskopff Carl, 412 Commercial
Roach John, 429 Montgomery
Schmolz W, 420 Montgomery

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Personal and Prompt Attention paid to the Repairing and Adjusting of Instruments.

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Jaujou E A & Co, 430 Jackson
Lyons E G & Co, 506 Jackson
McMillan Donald, 714 Front

Teas.

(See also Groceries.)
Bothin, Dallemand & Co, 305 Front
Castle Bros & Loupe, (agents [CB] Tea) 213 Front

Folger, Schilling & Co, 104 California

Low C Adolphe & Co, 208 California

Macondray & Co, 206 Sansome
Moore L P, (Japan) 412 Sacramento

Newton Bros, 204 California
Siegfried & Brandenstein, 210 California

Taber, Harker & Co, 108 Cal'a

Tents.

(See Awnings and Tents.)

Thread.

Carlson & Currier, 565 Market

Tin Can and Box Makers.

Austin B C, 406 Front
Holbrook, Merrill & Stetson, 225 Market
Montague W W & Co, 110 Battery
Seller Bros, 422 Sacramento
Tay George H & Co, 101 Cal'a

Tobacco.

Adams Cyrus & Co, (leaf) 417 Battery
Armer M & Co, 306 Sacramento
Bowman John S & Co, 215 Battery
Bremer Joseph & Co, (leaf) 310 Sacramento
Buchanan & Lyall, (manufacturers) 315 Battery
Culp J D & Co, 16 Front
Dwyer & Cartan, 513 Sacramento
Engelbrecht, Fox & Co, 312 Front
Esberg, Bachman & Co, 126 Battery
Falkenstein & Co, 300 Battery
Goldberg & Poppe, 410 Sacramento

Goslinsky E & Co, 219 Battery
 Harris Bros, 514 Washington
 Klopstock C & Co, 212 Front
Kohlberg M P & Co, (seed leaf) 225 Battery
Levi H & Co, 113 California
Lewis, Samuel & Co, 24 Cal'a
Lewis William & Co, 30 Cal'a
Liebes Bros & Co, 207 Sacramento
 Mayrisch, Bros & Co, 405 Battery
 Oppenheimer & Bro, 200 Front
 Ordenstein & Co, 306 Battery
Root & Sanderson, 123 Market
 Rosenbaum A S & Co, (leaf) S E cor California and Battery
 Rosenbaum I S & Co, S E cor Battery and Clay
 Rosenshine M & Bro, (leaf) 604 Front
 Sanderson & Horn, 327 Front
 Schoenfeld Jonas, (leaf) 423 Jackson
 Sideman, Lachman & Mayer, (leaf) 209 Battery
Wellman, Peck & Co, 126 Market
Wertheimer L & E, 302 Front
 Wertheimer M & Bro, 518 Front

Tool Makers.

Doble A, (steel) 13 Fremont
Kuhling A, 549 Fifth
 San Francisco Tool Co, (machine) 21 Stevenson
 Weichhart J, (steel) 143 Beale

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549 Fifth Street, San Francisco.

Moulding, Carving and Turning Tools
 made and repaired.

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Fechheimer & Steele, 109 Battery

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Beeman William, 424 O'Farrell
California Elastic Truss Co,
 702 Market
Folkers J H A & Bro, 118
 Montgomery
 Koehler August, 507 Kearny
**Magnetic Elastic Truss and
 Belt Co**, 704 Sacramento

Twines.

Doyle Henry & Co, 511 Mark't

Type Foundries.

Miller & Richard, 529 Commercial
 Pacific Type Foundry, 528 Sacramento
Painter & Co, 510 Clay

Upholstery Goods.

(*Manufacturers.)

*California Furniture Manuf
 Co, 224 Bush
 ***Ettinger S**, 105 Post
 *Fromm & Schaefer, (trim-
 mings) 543 Market
 Heynemann H & Co, 5 Sansome
Jansen Alexander, 48 Second
 Marwedel E H, 541 Market
 ***Plum Charles M & Co**, 641
 Market
 Sloane W & J, 525 Market
 *Walcom George, 109 Stockton

ALEX. JANSEN,
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AND

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Field A & Sons, 511 Market

Varnish Manufacturers.Hueter Bros & Co, S W cor
Second and Market**Veneers and Cabinet Woods.**

Wigmore John, 129 Spear

Vinegar Manufacturers.Cutting Packing Co, 17 Main
Fisher J H, 109 Commercial
King, Morse & Co, N W cor
Broadway and Sansome
Pacific Vinegar Works, 323
Front
Robinson C A, 15 Van Ness Av
Wangenheim Sol & Co, 118
Davis**Wagon Importers.**Baker & Hamilton, 13 Front
Davis George A, 327 Market
Fairbanks & Hutchinson, 401
Market
Frank Bros 319 Market
Hawley David N, S W corner
Market and Main
Hawley Marcus C & Co, 301
Market
Sanborn A W, 24 Beale**Wagon Manufacturers.**(See also Carriage Manufact-
urers.)Farren J W, 121 Beale
Kerr David, 47 Beale
Sanborn A W, 24 Beale**Watch Importers.**Andrews A, 221 Montgomery
Braverman Louis & Co, 119
Montgomery
Dinkelspiel S B & Co, 313 Bush
Hall A I & Son, (agents Water-
bury Watch Co) 585 Market

Levison Bros, 134 Sutter

Levy John & Co, 118 Sutter
Randolph & Co, 101 Montg'y
Shreve George C & Co, 110
MontgomeryTitcomb A C & Co, 24 Post
Vanderslice & Co, 136 Sutter**Water Closet Manufactur-
ers.**Smith William, (patent) 21
Montgomery-Av**Water Pipe Manufacturers.**American Pipe Co, 324 Pine
Garratt W T, (agent) 138 Fre-
mont
Jewell A M & Co, (wooden)
Berry, bet Third and Fourth
Smith Francis & Co, (hydrau-
lic) 130 Beale**Water Tank Manufacturers**Bachelder Manufacturing Co,
13 Fremont
Bodwell H H, 211 Mission
Jewell A M & Co, Berry, bet
Third and Fourth
Krogh F W & Co, 51 Beale
Tustin W I, 308 Mission**Wax Manufacturers.**Bay Soap and Candle Co,
(limited) 116 Front**Wheelbarrow Manufactur-
ers.**

Upstone John, 122 Spear

White Lead Works.Pacific Oil and Lead Works,
202 California
Whittier, Fuller & Co, 21
Front**White Oak Timber & Plank.**

Wigmore John, 129 Spear

Wind-Mill Manufacturers.

Bachelor Manuf Co, 13 Fremont
 Bodwell, H H, 211 Mission
 Jackson & Truman, S E cor Sixth and Bluxome
 Krogh F W & Co, 51 Beale
 Linforth, Rice & Co, (agents) 323 Market
 Tustin W I, 308 Mission,
 Woodin & Little, 109 Pine

Window Shade Manufacturers.

Clark George W, 645 Market
 Hartshorn & McPhun, 861 Market
 Mardwedel E H, 541 Market
 Wohlke F W, (rustic) 413 Mission

Wines---Native.

(See also Champagne; also, Liquors.)

Bach, Meese & Co, 321 Montg'y
 Dreyfus B & Co, 116 Front
 Gundlach J & Co, S E cor Market and Second
 Kohler & Frohling, 626 Montg'y
 Lachman & Jacobi, S E corner First and Market
 Lachman S & Co, 409 Market
 Lyons E G & Co, 506 Jackson
 Neuman & Putzman, 340 Pine
 Walter, Schilling & Co, N W cor Pine and Battery

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WINES AND BRANDIES.

J. GUNDLACH & CO.

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WINE VAULTS.

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California Wire Works Co, 6 California
 Fuhrman A M, 751 Mission
 Gruenhagen C H, 669 Mission
 Hallidie A S, 6 California

Wire Manufacturers.

California Wire Works Co, 6 California

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California Wire Works Co, 6 California
 Hallidie A S, 6 California
 Kruse & Euler, (agents English wire rope) 209 Front

Wood Turners.

Jessie & Drew, Berry, between Third and Fourth
 Jewell A M & Co, Berry, bet Third and Fourth
 Kemp J & Co, 109 Mission
 Langland N P, 407 Mission

Wood Working Machinery.

Parke & Lacy, 21 Fremont.
 Small I H, 574 Brannan

Wooden and Willow Ware.

Armes & Dallam, 230 Front
 Feigenbaum & Co, 120 Sansome
 Feldmann L & Co, 315 Sacramento
 Harrison & Dixon, 210 Sacramento
 Thibault Frank, 33 Main
 Titcomb & Co, 203 Sacramento

Woolen Mills.

Golden Gate, 401 California
 S F Pioneer, 115 Battery

L. BASHFORD & CO., Prescott, A. T., IRON AND STEEL OF ALL SIZES AND DESCRIPTIONS.

WM. B. HOOPER & CO. { Tucson & Phoenix, A.T., El Paso, } Wines of all Kinds.
{ Tex., and Guaymas, Mexico. }

304

SAN FRANCISCO.

Yeast Powders.

Adelsdorfer & Co, 406 Clay
Barton B F & Co, (Peerless)
211 Sacramento
Burr C C & Co, 13 Pine
Callaghan D & Co, 119 Front
Hanly G T & Co, 214 Sac'to
Levi H & Co, (Good as Gold.)
113 California
Tyler SH & Son, 221 Commer-
cial

Zincographers.

Schmidt M & Co, 411 Clay

M. SCHMIDT & CO.
Lithographers, Zincographers
DESIGNERS
AND
PRINTERS,
412 COMMERCIAL ST. AND 411 CLAY ST.

SEWING MACHINES!

GENERAL AGENCY FOR THE

White, New Home, Crown, Wilson,
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AND OTHER LEADING KINDS.

C. Howard & Co's Needles for all Machines. Genuine Attachments,
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Send for circulars and bed-rock prices. Liberal terms. Exclusive territory
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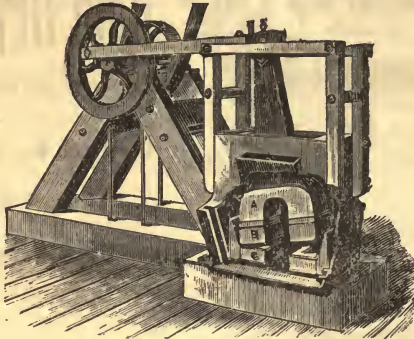
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It has no Stems, Cams or Tappets, and Adjusts Itself to the Wear of the Shoes and Dies.

For Simplicity, Economy, Durability and Effective Working, it exceeds anything ever presented to the public, and will do the work of five stamps with one-fourth the power.

The Mill can be seen in operation at the New York Metallurgical Works, 104 and 106 Washington Street, New York. Manufactured by

FRASER & CHALMERS,

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Price, 900-Pound Hammer,	\$ 500	Weight,	3600 lbs
“ Double Mills,	950	“	6700 “
Price, 1200-Pound Hammer,	600	“	5000 “
“ Double Mills,	1150	“	9500 “

Send for Circulars and Testimonials.

SHINGLE MACHINES AND SAW MILL MACHINERY, STEAM ENGINES, ETC., TO ORDER. MINING MACHINERY OF ALL KINDS.

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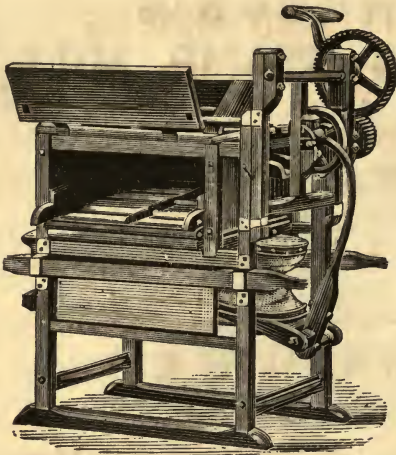
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SWEET'S MANUFACTURING CO.
FORT PLAIN SPRING AND AXLE WORKS.
CHESTER STEEL CASTINGS CO.

4 and 6 Fremont Street, corner Market, San Francisco.



THE WAUGAMAN
Gold Dry Washer

Patented Nov. 23rd, 1890.

C. J. & E. T. BARBER

PROPRIETORS

No. 2 Summer Street,
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This machine weighs 150 lbs., has a capacity of two tons an hour, and is guaranteed to save 95 per cent. of the gold. One man is required to turn the crank, and three others to feed and prepare ground. It is a perfect DRY METAL CONCENTRATOR.

PRICE, \$200.

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Pittsburg Steel Works, North Western Horse Shoe Nails,
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117 AND 119 CALIFORNIA STREET AND 120 AND 122 FRONT STREET,
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AGENT FOR THE

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DEALERS IN

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TERRA-COTTA CHIMNEY TOPS AND PIPE,

Stone and Earthen Ware, Vases, Flower Pots, Fire Brick and
Tile, Fire Clay, Etc.

22 CALIFORNIA STREET, SAN FRANCISCO, CAL.

GOLDEN STATE AND MINERS' IRON WORKS

MANUFACTURE

CASTINGS AND MACHINERY

OF EVERY DESCRIPTION.

Mining and Milling Machinery a Specialty.

237 TO 251 FIRST STREET, SAN FRANCISCO.

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AGENTS FOR

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BOLTING CLOTHS MADE UP.

Mills Built by Contract or Day Work.

Eureka Smut Machines, Bran Dusters, Middlings Purifiers, Porcelain and Iron Rolls, Bran and Flour Packers, Mill Irons, Spindles, Bails, Regulating Screws, Drivers, Steps, Pullers, Silent Feeders, Proof Staffs, Hoisting Screws, Bails and Pins, Conveyor Flights, Plaster, Rubber and Leather Belting, etc.

Mill Picks, Mill Picks Dressed, Mill Stones Repaired, Rebuilt or Balanced.

PLANS DRAWN AND SPECIFICATIONS MADE FOR PARTIES WISHING TO BUILD MILLS.

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LUMBER DEALER,

Cor. Spear and Howard Sts., San Francisco, Cal.

(FREE DELIVERY ON CARS.)

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MANUFACTURING JEWELERS
 AND IMPORTERS,
 101 and 103 Montgomery Street (Corner of Sutter).
 GOODS SENT TO ALL PARTS OF THE COAST.

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B. NATHAN & CO.

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CROCKERY, GLASS AND PLATED WARE,

Clocks, Bronzes, Glass Shades, Lamps, Etc.

130 SUTTER STREET,

Between Kearny and Montgomery,

SAN FRANCISCO.

FOR FINE HATS

— GO TO —

M. MEUSSDORFFER,

MANUFACTURER AND IMPORTER OF

➤ **HATS AND HAT MATERIALS** ◀

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White Oak Timber and Plank for Ship, Railroad, and Mill Work.

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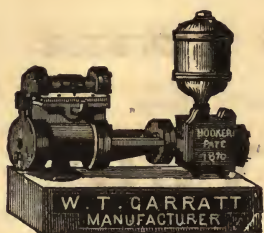
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Vitrified Iron Stone Sewer Pipe, Stone Ware,
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BROWELL'S PATENT CHIMNEYS

Are the only Chimneys where Bands and Filling can be used to make a Smoke and Air-Tight Joint, and with iron rods or strapped to the building.

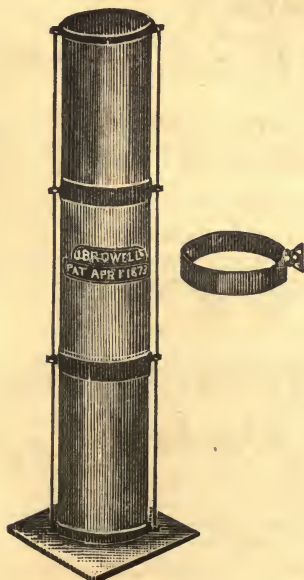
The U. S. Circuit Court has granted a perpetual injunction against L. E. Clawson and Jos. S. Brown. All persons are cautioned against using any improvement in Sectional Chimneys patented by J. Browell.

BROWELL'S PATENT CHIMNEYS can be placed in any part of the house, or attached to the outside of any building, with perfect safety.

They are now in use in the best buildings of San Francisco and Oakland, and have been highly approved and recommended by the Board of Supervisors, and by the leading architects of the State.

They are made of Fire Clay, without brick or mortar. No decay to them, no danger, no repairing, no dirt, no trouble, perfect ventilation, and are cheap, light, and portable; are Fire and Earthquake proof.

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**QUARTZ MILLS, BLACK SANDS, TAILINGS, GRAVEL, ETC.
SAVES YOUR GOLD, AMALGAM, AND QUICKSILVER.**

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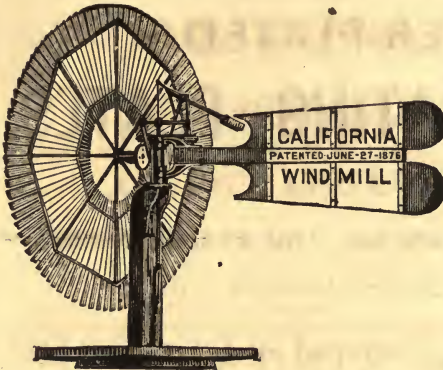
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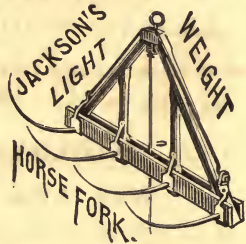
The proprietor challenges competition on any or all of the above enumerated qualities of a Wind Engine. Price, 10-ft. wheel, \$75; 12 ft., \$85; 14 ft., \$100.

Steel pin for connecting rods, with oil founts. The stroke is adjustable. Axle, wrought iron, running in Babbitted Box and Bedded in Oil. Will not blow down.

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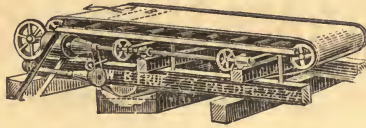
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Upright and Horizontal Engines and Boilers a Specialty.

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Over 250 are now in use, giving entire satisfaction. Awarded First Premium and Silver Medal at the Industrial Fair for 1880 of the Mechanics' Institute of San Francisco, Cal.

Saves from 50 to 100 per cent. more than any other Concentrator in use, and the concentrations are clean from the first working. The wear and tear are merely nominal; the water required is less than in any other wet Concentrator; the power required per machine is less than one-half horse power; the labor required is light, one man on a watch can attend to sixteen machines.

We challenge any other Concentrator in use for a fair and impartial competitive trial, side by side, for stakes of \$1000 each, and we mean business.

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LADIES' DRESS TRIMMINGS,

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"HOTEL DEL MONTE,"

MONTEREY, CAL.

THE MOST CHARMING

SUMMER AND WINTER RESORT

ON THE PACIFIC COAST,

IS OPEN ALL THE YEAR ROUND,

For the reception of permanent guests and transient seekers
after recreation and health.

THE MAGNIFICENT "HOTEL DEL MONTE"

Is about four hours by rail from San Francisco, and
is reached by the

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(NORTHERN DIVISION)

Via SAN FRANCISCO AND SAN JOSE.

The "HOTEL DEL MONTE" is one of the most elegant seaside establishments in the world, and is handsomely furnished throughout, and provided with all modern improvements, such as hot and cold water, gas, etc., etc. It is picturesquely situated in a grove of 126 acres of oak, pine, spruce, and cypress trees, and is within a quarter of a mile of the beach, which is unrivalled for bathing purposes.

There are many beautiful drives to places of great interest, such as Cypress Point, Carmel Mission, Point Lobos, etc.

THE BATHING ESTABLISHMENT IS UNSURPASSED.

SPACIOUS SWIMMING TANK,

(150x50 feet) for Warm Salt Water Plunge and Swimming Baths.

ELEGANT ROOMS FOR INDIVIDUAL BATHS, WITH DOUCHE
AND SHOWER FACILITIES.

Magnificent Beach of Pure White Sand for Surf Bathing, Etc., Etc.

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CLIMATE AND HEALTHFULNESS
—OF—
MONTEREY
THE
Most Delightful Summer Pleasure Resort
AND
WINTER SANITARIUM
ON THE PACIFIC COAST.

The weather at Monterey is not so warm either in summer or winter as in other parts of California further south, but there is an even temperature that can be found nowhere else. From January to December, year in and year out, there is neither summer nor winter weather. Indeed, the weather at Monterey, from one year's end to another, partakes of that delightful interlude known in the East and South as "Indian Summer." The same balmy zephyrs breathe a delicious atmosphere all the year round, and summer and winter, so-called, serenely face each other and exchange compliments.

It will be seen by the annexed table that Monterey has only one rival (Honolulu) in equability of temperature. It must be understood, however, that there is a good deal of hot, disagreeable weather on the islands, and a multiplicity of drawbacks which Monterey does not possess. There are seldom any high, cold winds at and around Monterey, and never any hot ones.

The following carefully prepared table presents the

AVERAGE TEMPERATURE OF MONTEREY
AND

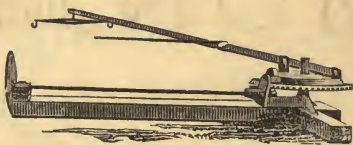
Many other Health Resorts Throughout the World.

PLACE.	Jan.	July.	Diff.	Latitude.		PLACE.	Jan.	July.	Diff.	Latitude.	
	Degs.	Degs.	Degs.	Deg.	Min.		Degs.	Degs.	Degs.	Deg.	Min.
MONTEREY.	52	58	6	36	36	New York....	31	77	46	40	37
San Francisco.	49	37	8	37	48	New Orleans..	55	82	27	29	57
Los Angeles..	55	67	12	34	04	Naples.....	46	76	30	40	52
Santa Barbara.	56	66	10	34	24	Honolulu.....	71	77	6	21	16
San Diego....	57	65	8	32	41	Funchal.....	60	70	10	32	38
Santa Monica.	58	65	7	34	00	Mentone.....	40	73	33	43	71
Sacramento...	45	73	28	38	34	Genoa.....	46	77	31	44	24
Stockton.....	49	72	23	37	56	City of Mexico	52	63	11	19	26
Vallejo.....	48	67	19	38	05	Jacksonville..	58	80	22	30	50
Fort Yuma...	56	92	36	32	43	St. Augustine.	59	77	18	30	05
Cincinnati....	30	74	44	39	06	Santa Cruz...	50	60	10	37	00

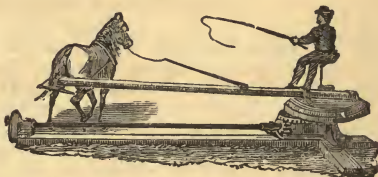
TUSTIN'S PATENT FIRST PREMIUM WINDMILLS AND HORSE-POWERS.



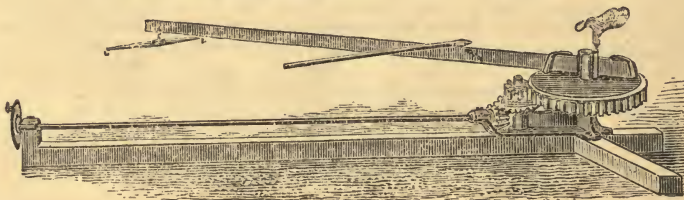
THE DAIRY QUEEN.



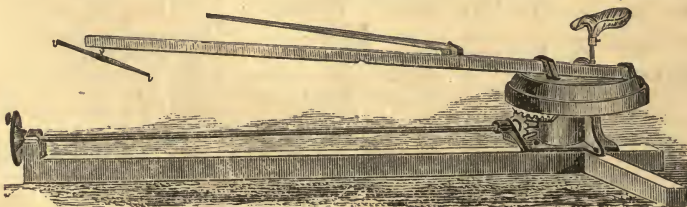
THE ECONOMY, for 1 Horse.



THE ECLIPSE, for 1 Horse.



THE ECONOMY, for 1 or 2 Horses.



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W. I. TUSTIN, Patentee and Sole Proprietor.

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Oak-Tanned Leather Belting,

FINEST LACING.

CUT STRINGS OR SIDES

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Blacksmith and Shutter Maker,

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Railings, Safes, Awnings, Vaults; Tanks for Sugar, Water, Soap, Etc.

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A NEW KIND OF DRY COLD SEPARATOR

HAS BEEN INVENTED, AND PATENT APPLIED FOR.

After experimenting with and improving this machine for nearly twelve months, it has now been thoroughly tested by some of the best experts from the dry gold fields of Arizona, and pronounced by all at every test to be the best machine yet known, inasmuch as it has a large capacity and two different currents of air—one to agitate the material and the other to carry off the dross while the gold is being separated; by this means it cleans out and separates one-half more material than any other machine of the same size, at the same time saving every speck of gold that may exist in sand or gravel, such as that found at Mammoth Station, Mesquite, Casa Grande, and elsewhere. A sample of gold has been sent here to parties in San Francisco, who bought one of these machines; they thoroughly examined it before buying, and have as thoroughly tested it by subsequent use. The result of one test sent on by express was \$5.56, from 600 pounds of material, which came from these mines or claims and separated by this machine. These machines are now a perfect success, and a number ordered to be made at once.

The Construction of the Machine is as follows :

It has a good solid frame, bolted together with rods, and can be readily taken apart and put together. The combination is a fan, with a bottom and top-bellows of leather, the latter forming an adjustable riffle box combined with an apron, so as to regulate the two currents of air while working the different kinds of dirt.

CAPACITY, 30 TO 40 TONS PER DAY OF 10 HOURS,

according to the kind and nature of the soil. Dry sulphuret concentration is also combined in this machine. An adjustable round belt runs the whole machine. No cogs or cast iron work to break or wear out.

Parties wishing to send us some dirt, we will run it through the machine and let them know the result.

PRICES REDUCED.

All machines complete with fan, top and bottom-bellows.

No. 1,	Weight	60 pounds,	- - -	Price \$	50.00
No. 2,	"	150 "	- - -	"	100.00
No. 3,	"	280 "	- - -	"	175.00

Larger Machines, to run with Steam or Horse Power. Prices in Proportion.

JAS. HARRIS & CO.

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— IN —

Southern California.

The attention of all heads of families or others contemplating going West is called to the extraordinary offers now being made by the

SOUTHERN PACIFIC RAILROAD CO.

IN THEIR SALES OF CHOICE FARMING AND FRUIT AND VINEYARD LANDS, LYING ADJACENT TO THE RAILROAD in Stanislaus, Merced, Fresno, Tulare, Kern, Los Angeles, San Bernardino, San Diego, San Benito, Monterey, and Santa Clara Counties, which are UNEXCELLED IN CLIMATE, HEALTHFULNESS, PRODUCTIVENESS OF SOIL, AND ACCESSIBILITY TO MARKET, AND INCLUDE THE

BEST WHEAT, FRUIT, GRAZING, VINEYARD, AND TIMBER LANDS IN AMERICA,

And are adapted to all purposes of profitable agriculture, and may be had in tracts of 40 acres or upward at prices ranging from \$2.50 to \$20 per acre, according to quality, location, and accessibility to the main line of road.

These lands will increase in value annually. Already thousands of heads of families have purchased lands along the Southern Pacific Railroad, and have erected thereon splendid farms and homesteads, while many hold lands that they purchased a few years ago for from \$2.50 to \$20 per acre at from \$25 to \$150 per acre, for speculative purposes.

Almost everywhere throughout the counties above named, no snow, and only an occasional frost, that does no harm, is ever seen. There is really NO WINTER WEATHER in Southern California, and not one home in one hundred ever has a fire except for culinary purposes. The summer weather is never oppressive, as in the Eastern and Southern States, while the nights are cool the year round.

In Santa Clara, San Benito, Monterey, Stanislaus, Merced, Fresno, Tulare, and Kern, the staples are wheat, rye, barley, and wool, which are produced without irrigation. All kinds of fruits and vegetables are raised with irrigation, also cotton, tobacco, and hemp. Wine-making and orcharding are extensively carried on in Santa Clara County. In Los Angeles, San Bernardino, and San Diego Counties, are produced all the semi-tropical fruits, such as oranges, lemons, bananas, figs, nuts, and all the cereals. One-fourth of all the wine and brandy made in California is produced in Los Angeles County; the finest oranges and lemons to be found in the world are raised in Los Angeles, San Bernardino, and San Diego Counties; also the best honey. In 1878, Los Angeles had, according to the assessors' report, 180,000 bearing orange, 30,000 lemon, and 3,000 olive trees; also about 3,000,000 bearing grape-vines. The lands along the Colorado River are as rich as those at the mouth of the Danube or the Nile, and will produce either corn, rye, wheat, tobacco, hemp, or cotton. There are several parties experimenting with rice and sugar.

Over 65,000 people have already taken up home in Southern California since the completion of the Southern Pacific Railroad, and great inducements will be offered to the hundreds of thousands who will follow in the course of the next few years.

Every person contemplating permanent settlement at any point west of the Allegheny Mountains should, before applying elsewhere, get a circular or pamphlet setting fourth what has been briefly stated above, which will be sent gratis by applying in person or addressing

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Mining Machinery.

Plants for Gold and Silver Mills, embracing the latest and most improved machinery and processes for base and free ores. Hoisting Works, Pumping Machinery, Chloridizing Furnaces, etc. We offer our customers the best results of 30 years' experience in this special line of work, and are prepared to furnish the most approved character of Mining and Reduction Machinery, superior in design and construction to that of any other make, at the lowest possible prices. We also contract to deliver, in complete running order, Mills, Furnaces, Hoisting Works, etc., in any of the Mining States and Territories.

Estimates Given on Application. Send for Illustrated Circular.

WATER JACKET SMELTING FURNACES

For Silver, Lead, and Copper Ore,

WITH

NEW AND IMPORTANT IMPROVEMENTS

OF GREAT PRACTICAL UTILITY.

No other furnaces can compare with ours for durability, and in capacity for continuous and uninterrupted work.

MORE THAN FIFTY

of them are now running on the Pacific Coast, giving results never before obtained as regards continuous running, economy of fuel, grade and quantity of bullion produced.

These Smelters are shipped in a complete state, requiring no brick or stone work, thus saving great expense and loss of time in construction.



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