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THE
MINERALS

OF

CALIFORNIA

AND COUNTY ATLAS.



ISSUED BY THE
CALIFORNIA STATE MINING BUREAU
HERRY BUILDING, SAN FRANCISCO, CAL.

LEWIS E. AUBURY,
State Mineralogist

its of the SANTA FE.

THE MAPS

The unique, artistic, and useful County Maps in this souvenir were drawn expressly for the

FIREMAN'S FUND INSURANCE CO.

of San Francisco, and are the work of Mr. Louis Weinmann, the Secretary of the company. This company kindly loaned the original drawings of the maps to the California State Mining Bureau for making the plates of this little book. The maps are copyrighted and must not be reproduced without obtaining permission from the Fireman's Fund Insurance Co.

The maps have been CORRECTED TO JANUARY 1st, 1902.

They show all TOWNS, POSTOFFICES, RAILROADS, COUNTY ROADS, STAGE LINES carrying passengers, mail and express, and DISTANCES BETWEEN POINTS, forming a handy and useful guide, especially to all who wish to leave the railroad and penetrate to the interior of the mining districts.

Reliability of statement, and avoidance of exaggerations, have been the prime consideration in compiling these FACTS BRIEFLY STATED.

Compiled by G. E. BAILEY, Field Assistant.

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THE
STATE
MINING BUREAU

Relief Map of California



By
N. F. DRAKE
Department of Geology,
Stanford University



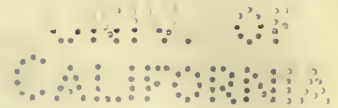
Minerals of California
ISSUED BY THE
CALIFORNIA STATE MINING BUREAU

LEWIS F. AUBURY
State Mineralogist



PACIFIC OCEAN

CALIFORNIA



POPULATION 1900...1,485,058

POPULATION 1890...1,208,120

AREA, 155,980 Square Miles

CAPITAL, ... SACRAMENTO

TOTAL GOLD PRODUCTION \$1,362,356,088 IN 53 YEARS.

VALUE OF ALL MINERAL PRODUCTS FOR 1901, \$34,455,981.

The Mineral Resources are

ENORMOUS, DIVERSIFIED, WIDESPREAD, INEXHAUSTIBLE

GOLD is produced in 35 out of 57 Counties.

There are over 250 specific minerals found in the State, and about 50 of them are utilized commercially.

Each year sees the utilization of some mineral substance heretofore overlooked or neglected.

What has been done is but the introductory chapter of its history.

It holds the greatest industrial possibilities for the future.

THE TOTAL ASSESSED VALUE OF PROPERTY of every description in California in 1900 was \$1,218,292,457, or a per capita valuation of \$819.

From 1880 to 1890 the total true valuation of property in California INCREASED 88 PER CENT, against an increase of 49 per cent for the whole United States; while the valuation per capita increased 35 per cent as compared with 19 per cent for the whole country.

Through the ports pass annually imported goods to the value of \$42,000,000, and exported merchandise worth \$40,000,000.

THE PEOPLE HAVE MONEY, for the issue of domestic orders in one year is over \$15,000,000, an amount exceeded only by New York and Pennsylvania.

The California State Mining Bureau

This institution aims to be the chief source of reliable information about the mineral resources and mining industries of California.

It is encouraged in its work by the fact that its publications have been in such demand that large editions are soon exhausted. In fact, copies of some of them now command high prices in the market.

The publications reach miners, mine owners and superintendents, metallurgists and others directly interested in the mining industry, and are kept in all libraries.

STATE MINERALOGIST. The California State Mining Bureau is under the supervision of Hon. Lewis E. Aubury, State Mineralogist by appointment of Hon. Henry T. Gage, Governor of California.

The Mining Bureau is supported by Legislative appropriations, and in some degree performs work similar to that of the geological surveys of other States; but its purposes and functions are mainly practical, the scientific work being clearly subordinate to the economic phases of the mineral field as shown by the organic law governing the Bureau, which is as follows:

It shall be the duty of said State Mineralogist to make, facilitate, and encourage special studies of the mineral resources and mineral industries of the State. It shall be his duty to collect statistics concerning the occurrence of the economically important minerals and the methods pursued in making their valuable constituents available for commercial use; to make a collection of typical geological and mineralogical specimens, especially those of economic or commercial importance, such collection constituting the Museum of the State Mining Bureau; to provide a library of books, reports, drawings bearing upon the mineral industries, the sciences of mineralogy and geology, and the arts of mining and metallurgy, such library constituting the Library of the State Mining Bureau; to make a collection of models, drawings, and descriptions of the mechanical appliances used in mining and metallurgical processes; to preserve and so maintain such collections and library as to make them available for reference and examination and open to public inspection at reasonable hours; to maintain, in effect, a bureau of information concerning the mineral industries of this State, to consist of such collections and library, and to arrange, classify, catalogue, and index the data therein contained, in a manner to make the information available to those desiring it, and to provide a custodian specially qualified to promote this purpose; to make a biennial report to the Board of Trustees of the Mining Bureau, setting forth the important results of his work, and to issue from time to time such bulletins as he may deem advisable concerning the statistics and technology of the mineral industries of this State.



THE CALIFORNIA STATE MINING BUREAU, FERRY BUILDING, SAN FRANCISCO

THE BULLETINS. The field covered by the books issued under this title is shown in the list of publications on page 59. Each bulletin deals with only one phase of mining. Many of them are elaborately illustrated with engravings and maps. A nominal price only is asked in order that those who need them most may obtain a copy.

THE REGISTERS OF MINES form practically both a State and County directory of the mines of California, each County being represented in a separate pamphlet. Those who wish to learn the essential facts about any particular mine are referred to them. The facts and figures are given in tabular form, and are accompanied by a topographical map of the county on a large scale, showing location, towns, railroads, roads, etc.

HOME OF THE BUREAU. The Mining Bureau occupies the north half of the third floor of the Ferry Building. Visitors and residents are invited to inspect the Museum, Library and other rooms of the Bureau and gain a personal knowledge of its operations.

THE MUSEUM. The museum now contains nearly 16,000 specimens carefully labeled and attractively arranged in show cases in a great, well-lighted hall, where they

can be easily studied. The collection of ores from California mines is, of course, very extensive and is supplemented by many cases of characteristic ores from the principal mining districts of the world. The educational value of the exhibit is maintained by substituting the best specimens obtainable for those of less value.

These mineral collections are not only interesting, beautiful, and in every way attractive to the sightseers of all classes, but they are educational. They show manufacturers, miners, capitalists and others the character and quality of the economic minerals of the State and where they are found. Plans have been formulated to extend the usefulness of the exhibit by special collections, such as one showing the chemical composition of minerals; another showing the mineralogical composition of the sedimentary, metamorphic, and igneous rocks of the State, the petroleum-bearing formations, ore bodies and their country rocks, etc.

Besides the mineral specimens there are many models, maps, photographs, and diagrams illustrating the modern practice of mining, milling, and concentrating, and the technology of the mineral industries. An educational series for high schools is being inaugurated, and new plans are being formulated that will make it even more useful in the future than in the past. Its popularity is shown by the fact that over 58,000 visitors registered last year, while many failed to leave any record of their visit.



VIEW OF THE MUSEUM OF THE STATE MINING BUREAU

THE LIBRARY. This is the mining reference library of the State, constantly consulted by mining men, and contains between four and five thousand volumes of selected works in addition to the numerous publications of the Bureau itself. On its shelves will be found the reports on geology, mineralogy, mining, etc., published by states, governments and individuals; technical works relating to all branches of mining and metallurgy; the reports of scientific societies at home and abroad; encyclopaedias; scientific papers and magazines; mining publications; and the current literature of mining ever needed in a reference library.

Manufacturers' catalogues of mining and milling machinery by California firms are kept on file. The Registers of Mines form an up-to-date directory for investor and manufacturer. The photographs, maps, and information constantly brought in by the Field Assistants give data for newspaper and magazine writers that is daily used and appreciated.

The Bureau is one of general information, where visitors from all parts of the world are ever coming and seeking information about all parts of California. This little pamphlet has been, in fact, compiled to answer some of the questions most frequently asked. More specific questions are answered in the Bulletins or Register, or by application to the State Mineralogist.

READING ROOM. This is a part of the Library Department, and is supplied with over 100 current publications. Visitors will find here the various California papers and the leading mining journals from all over the world.

THE LIBRARY AND READING ROOM IS OPEN TO THE PUBLIC FROM 9 A. M. to 5 P. M., DAILY, except Sundays and holidays.

THE LABORATORY. This department identifies for the prospector the minerals he finds, and tells him the nature of the wall rocks or dykes he may encounter in his workings; but this department *does not* do assaying or compete with private assayers. The presence of rare metals is determined, but not the percentage present. No charges are made for this service to any resident of the State.

There is a constant stream of samples coming in from prospectors all over the State, amounting to over 1,000 packages a year that are sent in, while fully as many more are brought in personally. Many of the inquiries made of this department have brought capital to the development of new districts. Many technical questions have been asked and answered as to the best chemical and mechanical processes of handling ores and raw material. The laboratory is



THE LIBRARY OF THE STATE MINING BUREAU

well equipped. The demands made upon this department have been such that specialists in lithology and microscopy may be added to it.

THE DRAUGHTING ROOM. In this room are prepared scores of maps, from the small ones filling a part only of a page, to the largest County and State maps, and the numerous illustrations, other than photographs, that are constantly being required for the Bulletins and Registers of Mines. In this room, also, will be found a very complete collection of maps of all kinds relating to the industries of the State, and one of the important duties of the department is to make such additions and corrections as will keep the maps up to date. One inquires here if they wish to know about the geology or topography of any district; about the location of the new camps, or position of old abandoned ones; about railroads, stage roads, and trails; or about the working drawings of anything connected with mining.

MINERAL STATISTICS. One of the features of the mining industry is its mineral statistics. Their annual compilation by the State Mining Bureau began in 1893, No other State in the Union attempts so elaborate a record, expends so much labor and money on its compilation, or secures so accurate a one.

The State Mining Bureau keeps a careful, up-to-date and reliable, but confidential, register of every producing mine, mine owner and mineral industry in the State. From them are secured, under pledge of secrecy, reports of output, etc., and all other available sources of information are used in checking, verifying and supplementing the information so gained.

The information is published in an annual, tabulated, statistical, single-sheet bulletin showing the amounts and values of mineral productions by both substances and counties.





THE DRAUGHTING ROOM

CALIFORNIA STATE

MINING BUREAU.



LEWIS E. AUBURY, STATE MINERALOGIST.
SHOWING THE MINERAL PRODUCTIONS OF CALIFORNIA FOR 14 YEARS.

Compiled by CHARLES G. YALE, STATISTICIAN.

PRODUCTS	1887		1888		1889		1890		1891		1892		1893		1894		1895		1896		1897		1898		1899		1900		TOTALS FOR 14 YEARS		PRODUCTS		
	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE	QUANTITY	VALUE			
Anthracite	71	\$1,550	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	100	\$2,000	1,400	\$28,000	Anthracite
Bituminous	35	\$1,800	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	30	\$1,500	420	\$21,000	Bituminous
Asphaltum	4,000	\$10,000	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	3,000	\$7,500	40,000	\$100,000	Asphaltum
Rock	60,000	\$60,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	50,000	\$50,000	600,000	\$600,000	Rock
Lbs	2,079,300	\$16,558	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	2,008,000	\$16,064	20,793,000	\$165,580	Lbs
Bbls	800	\$4,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	1,000	\$5,000	8,000	\$40,000	Bbls
CK	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	30,000	\$150,000	CK
M	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	30,000	\$150,000	M
ferrous	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	3,000	\$15,000	30,000	\$150,000	ferrous
Earth	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	1,000,000	\$1,000,000	10,000,000	\$10,000,000	Earth
Cu	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	1,000	\$10,000	10,000	\$100,000	Cu
Fe	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	2,000	\$20,000	20,000	\$200,000	Fe
Ag	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Ag
Gold	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Gold
Lead	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Lead
Mercury	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Mercury
Fluorite	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Fluorite
Pyrite	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Pyrite
Other	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	100	\$10,000	1,000	\$10,000	Other



THE LABORATORY

DEL NORTE COUNTY.

POPULATION, 1900, 2,408; 1890, 2,592. AREA, 1,200 Sq. M. County Seat, CRESCENT CITY. Assessed valuation, \$2,048,444. The production of gold is about \$5,000 annually; asbestos, chromite, coal, copper, iron, platinum and manganese are undeveloped. The principal products are LUMBER and AGRICULTURAL.

SISKIYOU COUNTY.

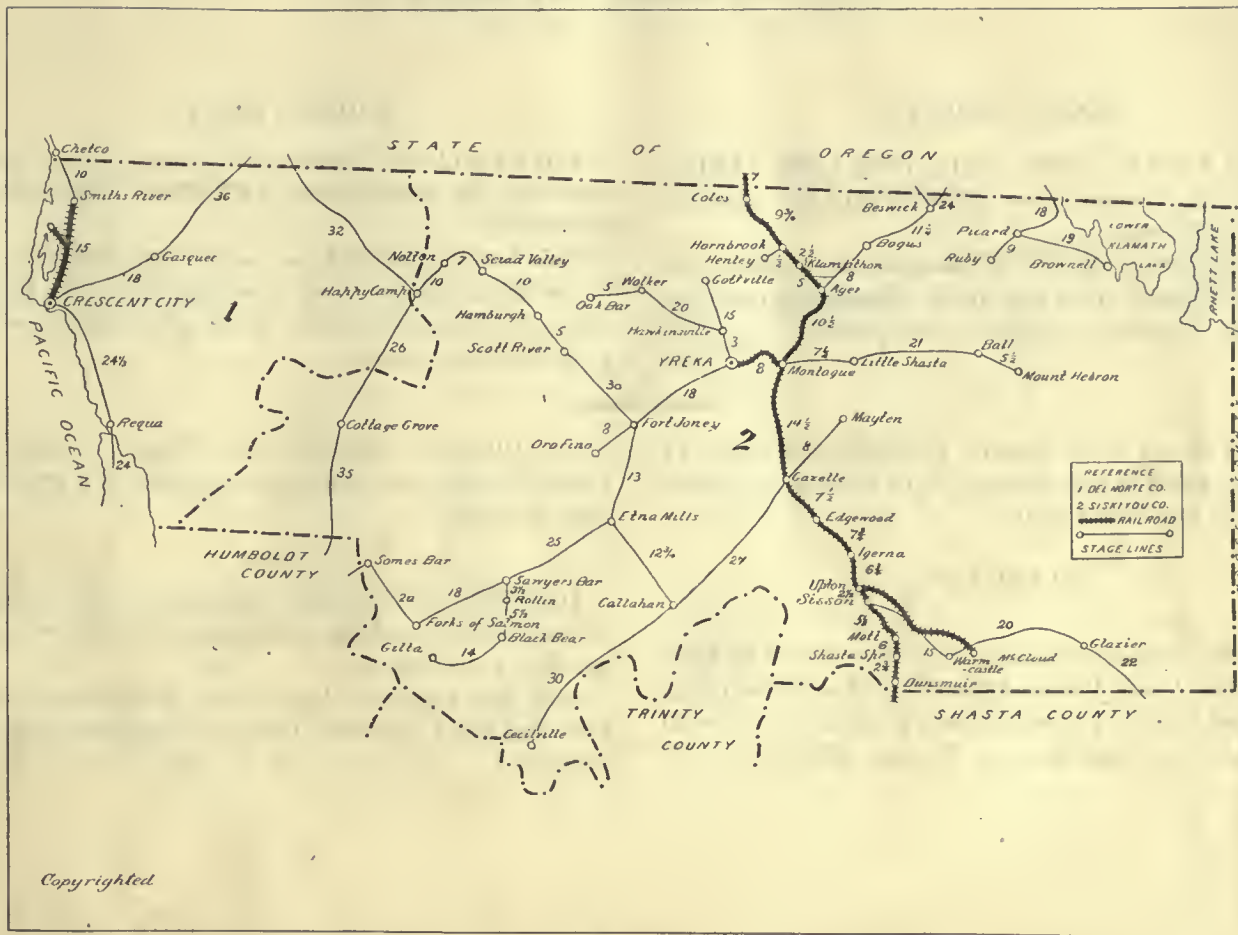
POPULATION, 1900, 16,962; 1890, 12,163. AREA, 5,680 Sq. M. County Seat, YREKA. Assessed value, \$8,991,828. One Year's Product: GOLD, \$951,397; MINERAL WATERS, \$45,000; SILVER, \$14,000. Total, one year: \$1,010,383; over 11 per cent total assessed values.

MINERALS: GOLD, SILVER, antimony, platinum, plumbago, iron, chromite, lead, coal, copper, marble, onyx, limestone, mineral waters.

RANK OF THE COUNTIES AS MINERAL PRODUCERS FOR ONE YEAR.

1 Shasta \$ 5,574,026	19 Napa 493,100	37 Humboldt 118,827
2 Los Angeles 2,155,198	20 Ventura 476,161	38 San Luis Obispo 85,626
3 San Bernardino 1,965,143	21 Inyo 430,589	39 San Francisco 58,400
4 Nevada 1,916,899	22 El Dorado 426,420	40 San Joaquin 39,862
5 Calaveras 1,905,856	23 San Diego 402,061	41 Solano 24,700
6 Kern 1,867,856	24 Plumas 369,379	42 Tulare 21,566
7 Tuolumne 1,659,258	25 Riverside 285,112	43 Stanislaus 21,405
8 Amador 1,479,009	26 Yuba 284,631	44 Lassen 20,483
9 Placer 1,128,882	27 Madera 268,467	45 Monterey 19,175
10 Siskiyou 1,010,383	28 Sacramento 259,439	46 San Mateo 16,500
11 Mono 752,121	29 Orange 259,174	47 Colusa 13,930
12 Trinity 698,689	30 San Benito 205,650	48 Mendocino 8,448
13 Sierra 663,159	31 Marin 202,500	49 Kings 5,000
14 Alameda 639,771	32 Santa Cruz 191,091	50 Del Norte 3,483
15 Fresno 609,847	33 Lake 172,745	51 Tehama 2,200
16 Santa Barbara 528,438	34 Mariposa 171,516	52 Yolo 1,760
17 Butte 500,786	35 Sonoma 157,135	Unapportioned 1,406,803
18 Santa Clara 497,386	36 Contra Costa 146,900	Total \$32,622,945

DEL NORTE AND SISKIYOU COUNTIES



LASSEN COUNTY.

POPULATION: 1900, 4,511; 1890, 4,239. AREA, 4,465 Sq. M. County Seat, SUSANVILLE. Assessed value, \$3,499,650.

From \$20,000 to \$30,000 of minerals are produced annually, principally gold; coal, mica, and limestone are undeveloped. The main industry is stock-raising.

Mineral claims worth locating are worth recording. In looking up mines in this State see if the locations have been recorded at the County Seat.

DIAMONDS.

Over 200 authentic diamonds have been found in California. The Moore Diamond from Cherokee, Butte County, weighed two and a quarter carats (9 grains). From 50 to 60 others have been found in the same locality.

MODOC COUNTY.

POPULATION: 1900, 5,076; 1890, 4,896. AREA, 2,190 Sq. M. County Seat, ALTURAS. Assessed value, \$3,003,805.

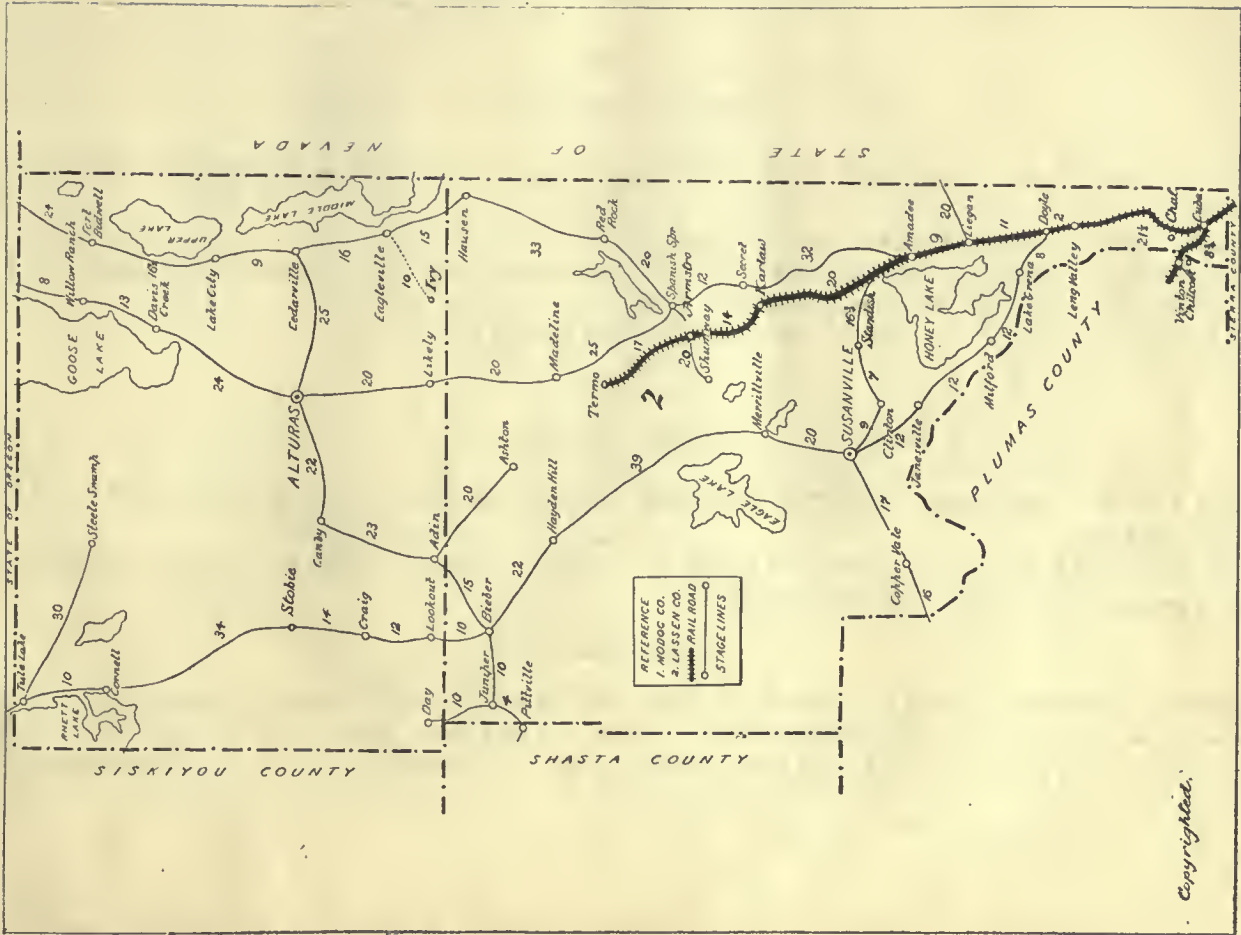
This County, situated in the extreme northeast corner of the State, is mainly a stock-raising region; the economic minerals being undeveloped. Gold, silver, copper, salt, and coal have been found.

The Olmstead Diamond, from Placerville, El Dorado County, weighed one and a quarter carats (5.6 grains) and sold for \$300.

DO SOME FIGURING. Take the mineral production of some county, and the population, and see how much it amounts to per capita.

Now how about the Agriculture, Horticulture, Viticulture, and other "cultures" that are worth your while to investigate?

MODOC AND LASSEN COUNTIES



SHASTA COUNTY.

POPULATION: 1900, 17,318; 1890, 12,133. AREA, 3,960 Sq. M. County Seat, REDDING. Assessed value, \$9,362,304.

One Year's Prod.: GOLD, \$733,467; SILVER, \$635,640; COPPER, \$4,166,735; Chrome Iron, \$1,400; Mineral Waters, \$5,784; BRICK, \$12,000; LIME, \$17,850; Building stone, \$1,150; talc mined and shipped. Total, one year: \$5,574,026; equals over 59½ per cent assessed value.

BANNER COUNTY IN COPPER, SILVER and CHROMITE.

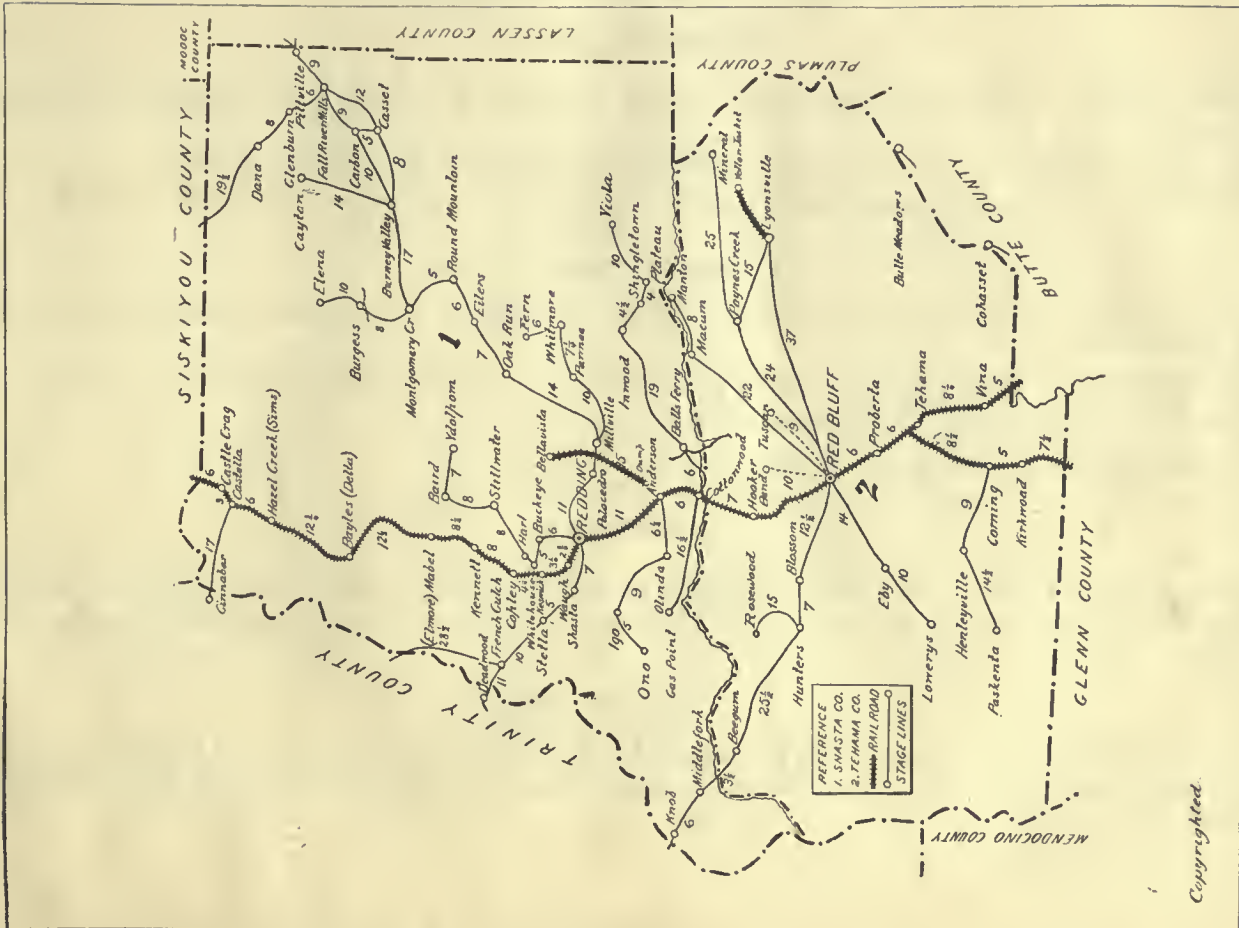
TEHAMA COUNTY.

POPULATION: 1900, 10,996; 1890, 9,916. AREA, 2,988 Sq. M. County Seat, RED BLUFF. Assessed value, \$10,910,679.

Mainly agricultural; brick clays of excellent quality are abundant; mineral springs are numerous; chromite, lead, onyx, sulphur, and potter's clays have been found.

The picking up of a small nugget by James W. Marshall, on January 24, 1848, was one of the great historic events of the world, as well as of America. Marshall found it in the race of a crude pioneer sawmill, at Old Coloma, in El Dorado County. The piece was lost, having been paid out for flour, but a cast or model of it has been preserved.

SHASTA AND TEHAMA COUNTIES



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HUMBOLDT COUNTY.

POPULATION: 1900, 27,104; 1890, 23,469. AREA, 3,570 Sq. M. County Seat, EUREKA. Assessed value, \$18,099,949.

One Year's Prod.: GOLD, \$109,444; MINERAL WATERS, \$2,000; BRICK, \$7,100.

MINERALS: GOLD, coal, copper, brick clays, potter's clay, marble, sandstone, MINERAL WATERS.

TRINITY COUNTY.

POPULATION: 1900, 4,383; 1890, 3,719. AREA, 3,000 Sq. M. County Seat, WEAVERVILLE. Assessed value, \$1,567,998.

One Year's Prod.: GOLD, \$571,605; SILVER, \$16,500; QUICKSILVER, \$105,982; Granite, \$4,535. Total, one year: \$698,689, or over 11 per cent assessed value.

Diamonds, platinum, iridium, and osmium have been found.

To tell you *WHAT YOU WANT TO KNOW* about the MINING INDUSTRIES OF THE STATE, is the object of the California State Mining Bureau, and it is its business and pleasure to answer legitimate inquiries from any source.

DO SOME FIGURING. Take the area in square miles of some of the counties, and the population and see how many inhabitants there are per square mile. Then compare this with some county in the East. There is room for YOU in this State.

HUMBOLDT AND TRINITY COUNTIES



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California is All Right

(From *Sunset*, a magazine published by the Southern Pacific Railroad.)

The clever Statistician, who is one of the greatest figure-heads I ever knew, dropped in last evening long enough to announce that California was the largest as well as the greatest State in the Union. With a good deal of satisfaction at catching this remarkable man in an error, I replied that it was plain enough that he had forgotten Texas. He chuckled and said it was not only plain enough, but too much plain in Texas that he had in mind; then, he marshalled his facts in battle array with the peaks of the high Sierras as generals, the mountain ridges as infantry columns, and the deserts as a reserve. I maintained a discreet silence on my kopje.

"Why," said he, rubbing his spectacles vigorously, so that the gaze with which he transfixed me might be more polished, "one would think you took California for a tennis court. Is Texas fourteen thousand feet high? It doesn't begin to rise to the occasion. Does it ever go below sea-level? It's no good at plucking drowned honor from a vasty deep. No, sir; it is simply nice and level like a table cloth spread at a Sunday school picnic in the woods. California was not made that way; Nature didn't mould this State in beautiful lines with all the curves that delight the artist's eye, and then as if petulantly dissatisfied with the result, flatten it out smooth with a sweep of the hand as if it were Kansas. Instead, she gathered together all the material necessary to make a great State, a greater State in plane area than any other in the Union; and she crumpled it up together east and west. No longer was it equilateral, but narrow in proportion to its length. Then out of the material the good dame fashioned the great valleys of the San

Joaquin and the Sacramento; and from the crumpled surface to the east she built great mountain walls, ridge after ridge, and minarets and white-topped domes; and let loose, in joyous moods to dance among them, clear streams of laughing waters, and here and there made lofty precipices for them to leap over. To the west, near the great Pacific, she rounded out more mountains; and to the south and the north artistically placed still other heights protecting valleys, so that anywhere in the wonderful State one need not be bound by a narrow monotonous horizon, but could ascend and see the beautiful country she had made. And then, upon this lucky day for California, Nature's mood changed a bit and to the mountains and hills came the dignity of the greatest and oldest forests on the globe. And then, I guess, maybe, she had a happy afterthought; perhaps the forest of evergreen made the land seem a little dark, for as a finishing touch she gave it a tinge of gold and laved the whole in endless sunshine."

I came down from my kopje not altogether gracefully.

"But Texas is a great State, you must admit," said I, on the way down.

"Certainly," he responded, promptly, "it's one of the finest countries I ever knew, but," he added, "I would prefer it if it were neither so broad nor so long, but ruffled up into mountains and valleys like our own."

I said nothing more, but I am now busily engaged in figuring to determine if Texas were gathered into the compass of California's limits, which then would be the greatest State. I am hopeful of aid from some gentleman of Texas.

Rare Minerals

CALIFORNIA IS WORLD FAMOUS FOR THE FOLLOWING RARE MINERALS:

It is the greatest gold State of the Union, both in aggregate yield, any single year's product and annual average. The total yield has been \$1,362,356,088 or an average of \$26,199,155 per annum for fifty-three consecutive years. In 1852 the year's product was \$81,294,700.

It is UNIQUE in its production of NATURAL SODA. NITER has been found but is not yet utilized.

It is the ONLY STATE producing LEPIDOLITE, or Lithia Mica, which is shipped to Germany for Lithia salts.

It is the ONLY STATE mining the mineral MAGNESITE.

It is the ONLY STATE producing CHROME IRON.

It is the ONLY PRODUCER OF PLATINUM, IRIDIUM and OSMIUM in quantity.

With the exception of a portion of Nevada next to the California line, it is the ONLY PRODUCER of BORAX, furnishing the MAIN SUPPLY of the UNITED STATES.

It furnishes ONE-FOURTH of the WORLD'S SUPPLY of QUICKSILVER and for over 50 years has been the only quicksilver producer on the American continent,

except small amounts from Oregon and Texas. Total output of quicksilver valued at \$81,862,609.

It is STATE No. 4 in the production of PETROLEUM, and the industry is but in its infancy.

It is fast becoming a GREAT COPPER STATE.

Alum, bauxite, bismuth and nickel await utilization.

It is a GREAT TURQUOISE PRODUCER.

CALIFORNIA TOURMALINES are attracting wide attention among Eastern jewelers.

California produces ONYX of marvelous beauty; and TRAVERTINE, rivaling that of Egypt.

Over 200 AUTHENTIC DIAMONDS have been found in the State.

There is plenty of room for more mineral discoveries.

There are many millions of acres of STATE and GOVERNMENT lands vacant, and RAILROAD lands unsold.

The mineral output of California is now INCREASING AT THE RATE OF OVER TWO MILLIONS A YEAR.

COLUSA COUNTY.

POPULATION: 1900, 14,640; 1890, 7,364. AREA, 2,450 Sq. M. County Seat, COLUSA. Assessed value, \$11,812,546.

The annual production of QUICKSILVER is about \$1,500; of MINERAL WATERS, \$13,000; salt, copper, sulphur, and brick clays exist in quantity. AGRICULTURE, HORTICULTURE are main industries.

GLENN COUNTY.

POPULATION: 1900, 5,150. AREA, 1,400 Sq. M. County Seat, WILLOW. The resources are mainly agricultural. Some minerals, notably chromite, are known to exist. Assessed value, \$10,007,218.

LAKE COUNTY.

POPULATION: 1900, 6,017; 1890, 7,101. AREA, 1,125 Sq. M. County Seat, LAKEPORT. Assessed value, \$3,178,460.

One Year's Prod.: QUICKSILVER, \$127,345; MINERAL WATERS, \$45,000. Total, one year: \$172,745, or over 5 per cent total assessed value. Serpentine, chromite, sulphur, alum, diatomaceous earth, undeveloped.

MENDOCINO COUNTY.

POPULATION: 1900, 20,465; 1890, 17,612. AREA, 3,816 Sq. M. County Seat, UKIAH. Assessed value, \$10,660,254.

RESOURCES: MINERAL WATERS over \$8,000 annually; BRICK, asphalt, bituminous rock, chromite, coal, copper, mineral paint, dolomite, iron, platinum, talc, potter's clay, limonite, abalone shell.

MENDOCINO, GLENN, LAKE AND COLUSA COUNTIES



BUTTE COUNTY.

POPULATION: 1900, 17,117; 1890, 17,939. AREA, 1,764 Sq. M. County Seat, OROVILLE. Assessed value, \$13,879,046.

One Year's Prod.: GOLD, \$485,589; SILVER, \$13,082; Mineral Waters, \$1,515.

BANNER COUNTY IN MINERAL PAINTS. Total, one year, \$500,786, over 3 per cent assessed value.

Quartz, placer, river-dredging, natural gas, electric power from waterfalls transmitted to other counties; basalt, marble, chromite, iron, coal. Diamonds, zircon, and platinum have been found.

PLUMAS COUNTY.

POPULATION: 1900, 4,657; 1890, 4,933. AREA, 2,567 Sq. M. County Seat, QUINCY. Assessed value, \$2,093,004.

One Year's Prod.: GOLD, \$365,210; Silver, \$4,159. Total, one year, \$369,379, or over 17 per cent assessed value.

Shipments of manganese began last year; gold, silver, manganese, copper, iron, mica, barite, marble, chromite, lead, graphite, platinum, serpentine.

SOME NOTABLE CALIFORNIA GOLD NUGGETS.

Carson Hill, Calaveras Co., 2,340 ounces, \$43,534.

Sierra Buttes, Sierra Co., 1,596 oz., \$17,654.

French Ravine, Sierra Co., 532 oz., \$10,000.

Columbia Tuolumne Co., 446 oz., \$8,500.

French Ravine, Sierra Co., 426 oz., \$8,000.

Sullivan's Creek, Tuolumne Co., 408 oz., \$7,590.

Columbia, Tuolumne Co., 360 oz., \$6,500.

Columbia, Tuolumne Co., 283 oz., \$5,265.

French Ravine, Sierra Co., 263 oz., \$4,893.

Groot's Ferry, Siskiyou Co., 131 oz., \$2,437.

Campo Seco, Calaveras Co., 93 oz., \$1,760.

And a multitude of others from \$100 to \$1,000 in value.

BUTTE AND PLUMAS COUNTIES



EL DORADO COUNTY.

POPULATION: 1900, 8,986; 1890, 9,232. AREA, 1,790 Sq. M. County Seat, PLACERVILLE. Assessed value, \$4,039,566.

One Year's Prod.: GOLD, \$368,541; SILVER, \$25,159; Copper, \$500. Total, one year, \$426,420, or over 10 per cent of assessed value.

BANNER COUNTY IN SLATE. Gold, silver, copper, lime, talc, roscoelite, iron, agalmatolite, ROOFING SLATE, marble, chromite, pottery clays. Diamonds have been found.

NEVADA COUNTY.

POPULATION: 1900, 17,789; 1890, 17,369. AREA, 1,000 Sq. M. County Seat, NEVADA CITY. Assessed value, \$7,076,340.

One Year's Prod.: GOLD, \$1,812,036; SILVER, \$66,841; COPPER, \$20,472; Pyrites, \$17,550. Total, one year: \$1,916,899, or over 27 per cent of assessed value.

BANNER COUNTY IN GOLD and PYRITES. HAS PRODUCED OVER \$216,000,000 IN GOLD SINCE 1848. Diamonds have been found. Mineral paint, bauxite, granite, barite, marble, chromite, lead, iron, undeveloped.

PLACER COUNTY.

POPULATION: 1900, 15,786; 1890, 15,101. AREA, 1,492 Sq. M. County Seat, AUBURN. Assessed value, \$9,097,657.

One Year's Prod.: GOLD, \$986,155; SILVER, \$12,000; POTTERY, \$15,000; GRANITE, \$95,869; RUBBLE, \$20,000. Total, one year, \$1,128,882, or over 12 per cent assessed value. Iron, onyx, marble, chromite, salt, magnesite, serpentine, undeveloped.

SUTTER COUNTY.

POPULATION: 1900, 5,886; 1890, 5,469. AREA, 611 Sq. M. County Seat, YUBA CITY. Assessed value, \$6,364,459.

Resources, Agricultural. Coal has been found.

SIERRA COUNTY.

POPULATION: 1900, 4,017; 1890, 5,015. AREA, 1,025 Sq. M. County Seat, DOWNIEVILLE. Assessed value, \$1,529,604.

One Year's Prod.: GOLD, \$659,696; SILVER, \$4,000. Total, one year, \$284,631, or over 5 per cent assessed value. Chrome, copper, emery, graphite undeveloped.

YUBA COUNTY.

POPULATION: 1900, 8,620; 1890, 9,636. AREA, 625 Sq. M. County Seat, MARYSVILLE. Assessed value, \$5,464,434.

One Year's Prod.: GOLD, \$280,366; SILVER, \$5,000. Total, one year, \$663,159, or over 43 per cent assessed value. County largely agricultural.

SUTTER, YUBA, SIERRA, NEVADA AND EL DORADO COUNTIES



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MARIN COUNTY.

POPULATION: 1900, 15,702; 1890, 13,072. AREA, 590 Sq. M. County Seat, SAN RAFAEL. Assessed value, \$12,108,904.

One Year's Prod.: BRICK, \$200,000; Rubble, \$2,500.

Copper, manganese, graphite, salt, talc, macadam, sandstone, serpentine, potter's clays.

NAPA COUNTY.

POPULATION: 1900 16,415; 1890, 16,411. AREA, 850 Sq. M. County Seat, NAPA. Assessed value, \$11,765,301.

One Year's Prod.: QUICKSILVER, \$403,500; MINERAL WATERS, \$72,200; MAGNESITE, \$17,400. Total, one year, \$493,100, or over 4 per cent of assessed value.

BANNER COUNTY IN MINERAL WATERS.

Chromite, magnesite, mineral waters, quicksilver, talc, alum, iron, potter's clays.

County Seat, NAPA. Assessed value, \$11,765,301.

SOLANO COUNTY.

POPULATION: 1900, 24,143; 1890, 20,946. AREA,

911 Sq. M. County Seat, FAIRFIELD. Assessed value, \$17,524,117.

MINERALS WATERS, \$4,000 annually; MACADAM, \$18,000 annually; onyx, cement rock, granite, lime, travertine, chromite.

SONOMA COUNTY.

POPULATION: 1900, 38,480; 1890, 32,721. AREA, 1,548 Sq. M. County Seat, SANTA ROSA. Assessed value, \$26,003,179.

One Year's Prod.: QUICKSILVER, \$99,500; MINERAL WATERS, \$35,000; PAVING BLOCKS, \$20,000.

BANNER COUNTY IN PAVING BLOCKS.

Chromite, coal, granite, manganese, alum, graphite, iron, pottery clays, limonite, opals, silicified woods.

YOLO COUNTY.

POPULATION: 1900, 13,618; 1890, 12,684. AREA, 972 Sq. M. County Seat, WOODLAND. Assessed value, \$16,034,346.

County agricultural. Sandstone quarried, \$2,000 annually. Asbestos has been found.

SONOMA, MARIN, NAPA, YOLO AND SOLANO COUNTIES



AMADOR COUNTY.

POPULATION: 1900, 11,116; 1890, 10,320. AREA, 568 Sq. M. County Seat, JACKSON. Assessed value, \$4,641,489.

One Year's Prod.: GOLD, \$1,373,788; SILVER, \$15,000; COPPER, \$34,100; COAL, \$41,215; Pottery, \$9,100; MARBLE, \$5,891. Total, one year, \$1,479,009, or over 31 per cent of assessed value.

BANNER COUNTY IN MARBLE. Chromite, iron, magnesite, coal, macadam, serpentine. Diamonds and rutile have been found.

SACRAMENTO COUNTY.

POPULATION: 1900, 45,915; 1890, 40,339. AREA, 957 Sq. M. County Seat, SACRAMENTO. Assessed value, \$34,346,017.

One Year's Prod.: GOLD, \$176,000; NATURAL GAS, \$11,750; BRICK, \$53,400; Granite, \$4,000; Macadam, \$14,157; granite, chromite, pottery clays.

CALAVERAS COUNTY.

POPULATION: 1900, 11,200; 1890, 8,882. AREA, 1,100 Sq. M. County Seat, SAN ANDREAS. Assessed value, \$5,434,379.

One Year's Prod.: GOLD, \$1,649,126; SILVER, \$80,762; COPPER, \$150,585; MINERAL PAINT, \$3,800; QUARTZ CRYSTAL, \$18,000; Pyrites, \$3,583. Total, one year, \$1,905,856, or over 35 per cent of assessed value.

BANNER COUNTY IN MINERAL PAINTS AND QUARTZ CRYSTALS. Asbestos, chromite, copper, marble, tellurium, barite, lead, graphite, iron.

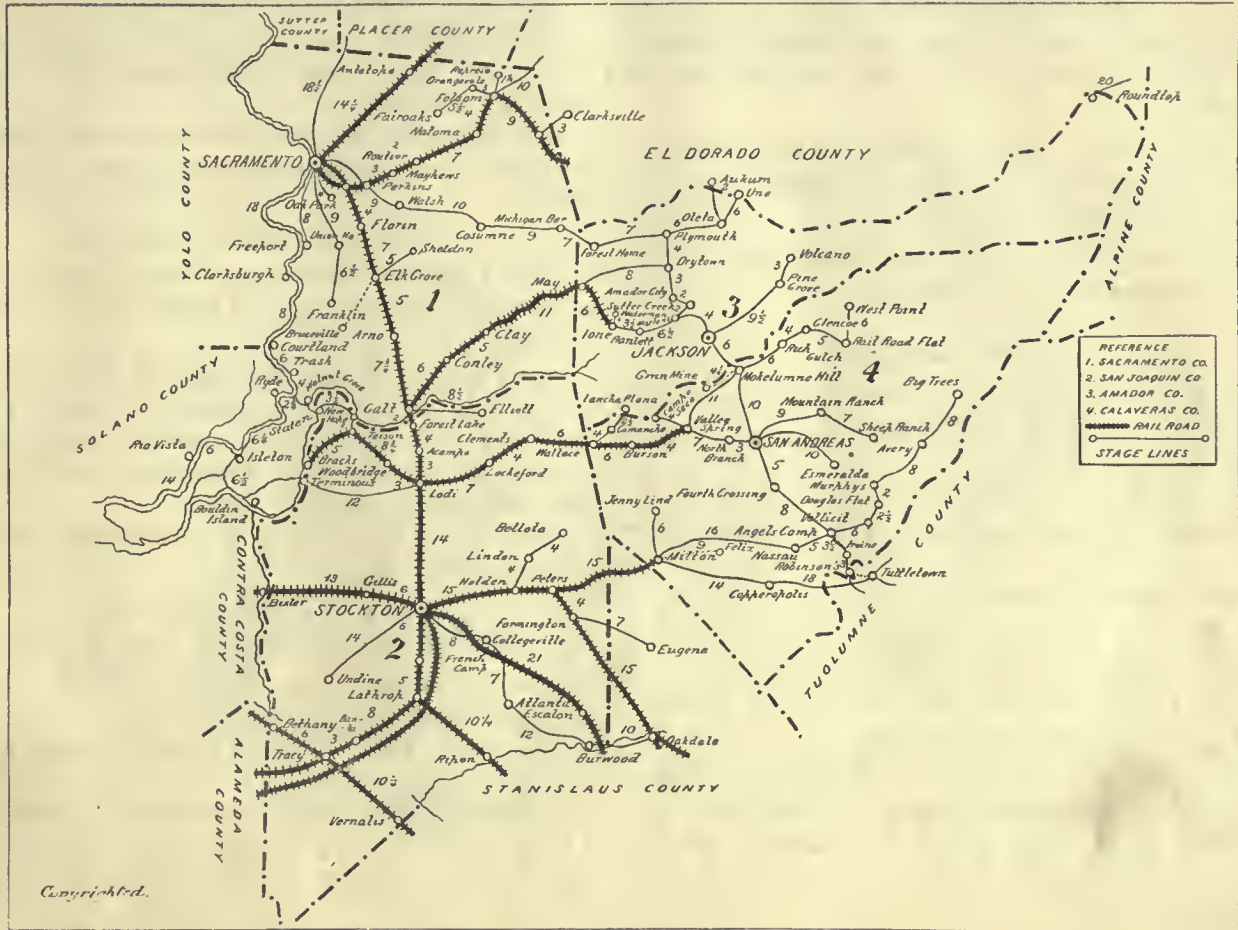
GEMS. Agate, garnet, epidote, jasper, opal, semi-opal, gold quartz, QUARTZ, RUTILE.

SAN JOAQUIN COUNTY.

POPULATION: 1900, 35,452; 1890, 28,629. AREA, 1,620 Sq. M. County Seat, STOCKTON. Assessed value, \$32,023,372.

BANNER COUNTY IN NATURAL GAS, \$20,000 annually; BRICK, \$20,000. Resources mainly agricultural.

SACRAMENTO, SAN JOAQUIN, AMADOR AND CALAVERAS COUNTIES



ALAMEDA COUNTY.

POPULATION: 1900, 130,197; 1890, 93,864. AREA, 704 Sq. M. County Seat, OAKLAND. Assessed value, \$89,771,005.

One Year's Prod.: MANGANESE, \$1,300; COAL, \$332,066; SALT, \$158,674; BRICK, \$40,000; MACADAM, \$107,551; Magnesite, \$200.

BANNER COUNTY IN SALT, MANGANESE, AND COAL. Chromite and iron undeveloped.

CONTRA COSTA COUNTY.

POPULATION: 1900, 18,046; 1890, 13,515. AREA, 810 Sq. M. County Seat, MARTINEZ. Assessed value, \$17,079,931.

COAL, \$145,000 annually; MINERAL WATERS, \$2,000 annually; Copper, potter's clays, hyalite, obsidian, opal.

Resources largely agricultural.

SAN FRANCISCO CITY AND COUNTY.

POPULATION: 1900, 342,782; 1890, 298,997. AREA, 42 Sq. M. Assessed value, \$413,388,420.

RUBBLE, \$57,000 annually; Macadam, about \$2,000.

HEADQUARTERS FOR MINING SUPPLIES. Be sure and visit the MINING BUREAU in the Ferry Building.

SAN MATEO COUNTY.

POPULATION: 1900, 12,094; 1890, 10,087. AREA, 460 Sq. M. County Seat, REDWOOD CITY. Assessed value, \$14,484,957.

BRICK, \$9,000; Macadam, \$7,500 annually; sandstone, chromite, syenite, diatomaceous earth, moss agate, jasper, basanite.

SANTA CLARA COUNTY.

POPULATION: 1900, 60,216; 1890, 48,005. AREA, 435 Sq. M. County Seat, SANTA CRUZ. Assessed \$51,920,963.

One Year's Prod.: QUICKSILVER, \$241,073; MINERAL WATERS, \$8,060; Magnesite, \$253; BRICK, \$136,000; Pottery, \$6,000; Building stone, \$6,000; SANDSTONE, \$100,000. Bituminous rock, chrome, macadam, manganese, copper, salt.

BANNER COUNTY IN QUICKSILVER AND SANDSTONE.

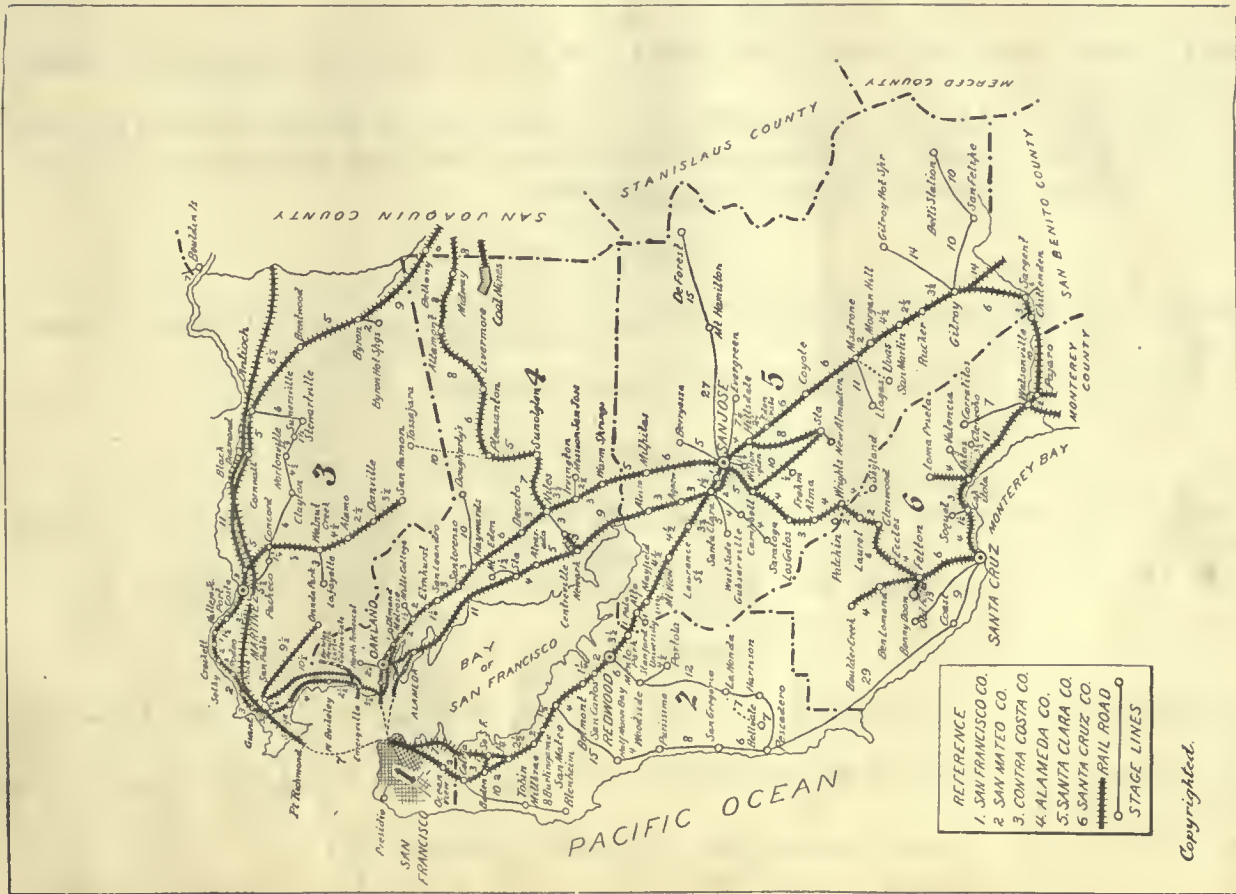
SANTA CRUZ COUNTY.

POPULATION: 1900, 21,512; 1890, 19,270. AREA, 435 Sq. M. County Seat, SANTA CRUZ. Assessed value, \$11,222,967.

One Year's Prod.; BITUMINOUS ROCK, \$58,590; LIME, \$131,288.

BANNER COUNTY IN BITUMINOUS ROCK AND LIME. Cement rock, zinc, potter's clay, glass sand, chromite, macadam, magnesite, manganese, copper, salt, marble.

SAN FRANCISCO, SAN MATEO, CONTRA COSTA, ALAMEDA, SANTA CLARA AND SANTA CRUZ COUNTIES



Copyrighted.

MARIPOSA COUNTY.

POPULATION: 1900, 4,720; 1890, 3,787. AREA, 1,570 Sq. M. County Seat, MARIPOSA. Assessed value, \$2,096,587.

One Year's Prod.: GOLD, \$157,633; SILVER, \$14,000. Total, one year, \$171,516, or over 8 per cent of assessed value. Asbestos, marble, iron, granite, serpentine, limestone, copper, lead, magnesite, tale.

GEMS: Andalusite, chiastolite, epidote, jasper, gold quartz.

MERCED COUNTY.

POPULATION: 1900, 9,215; 1890, 8,085. AREA, 1,750 Sq. M. County Seat, MERCED. Assessed value, \$13,657,777.

This county is wholly given over to agriculture. Coal has been found.

STANISLAUS COUNTY.

POPULATION: 1900, 9,550; 1890, 10,040. AREA, 1,486 Sq. M. County Seat, MODESTO. Assessed value, \$12,037,410.

GOLD, \$20,000 annually; Mineral paint, \$200; iron, gypsum. Resources largely agricultural.

TUOLUMNE COUNTY.

POPULATION: 1900, 11,166; 1890, 6,082. AREA, 2,032 Sq. M. County Seat, SONORA. Assessed value, \$6,424,670.

One Year's Prod.: GOLD, \$1,596,891; SILVER, \$62,367. Total, one year, \$1,659,258, or over 25 per cent of assessed value.

Copper, chromite, iron, marble, tin, tellurides, lead, graphite, magnesite, tale.

STANISLAUS, MERCED, TUOLUMNE AND MARIPOSA COUNTIES



Copyrighted.

ALPINE COUNTY.

POPULATION: 1900, 509; 1890, 667. AREA, 555 Sq. M. County Seat, MARKLEEVILLE. Assessed value, \$300,828.

Alum, iron, graphite, and barite have been found.

This county, located among the heights of the Sierra Nevada Mountains, has been but little developed, although known to be rich in minerals.

INYO COUNTY.

POPULATION: 1900, 4,377; 1890, 3,544. AREA, 10,020 Sq. M. County Seat, INDEPENDENCE. Assessed value, \$1,885,336.

One Year's Prod.: GOLD, \$214,000; SILVER, \$114,000; Antimony, \$700; LEAD, \$38,840; BORAX, \$13,900; SODA, \$50,000; SALT, \$5,000. Total, one year, \$420,586, or over 22 per cent of assessed value.

BANNER COUNTY IN SODA AND LEAD.

Asbestos, marble, barite, bismutite, copper, iron, potter's clay.

GEMS: Chrysocolla, datolite, fluorite, garnet, grossularite, lepidolite, obsidian, quartz.

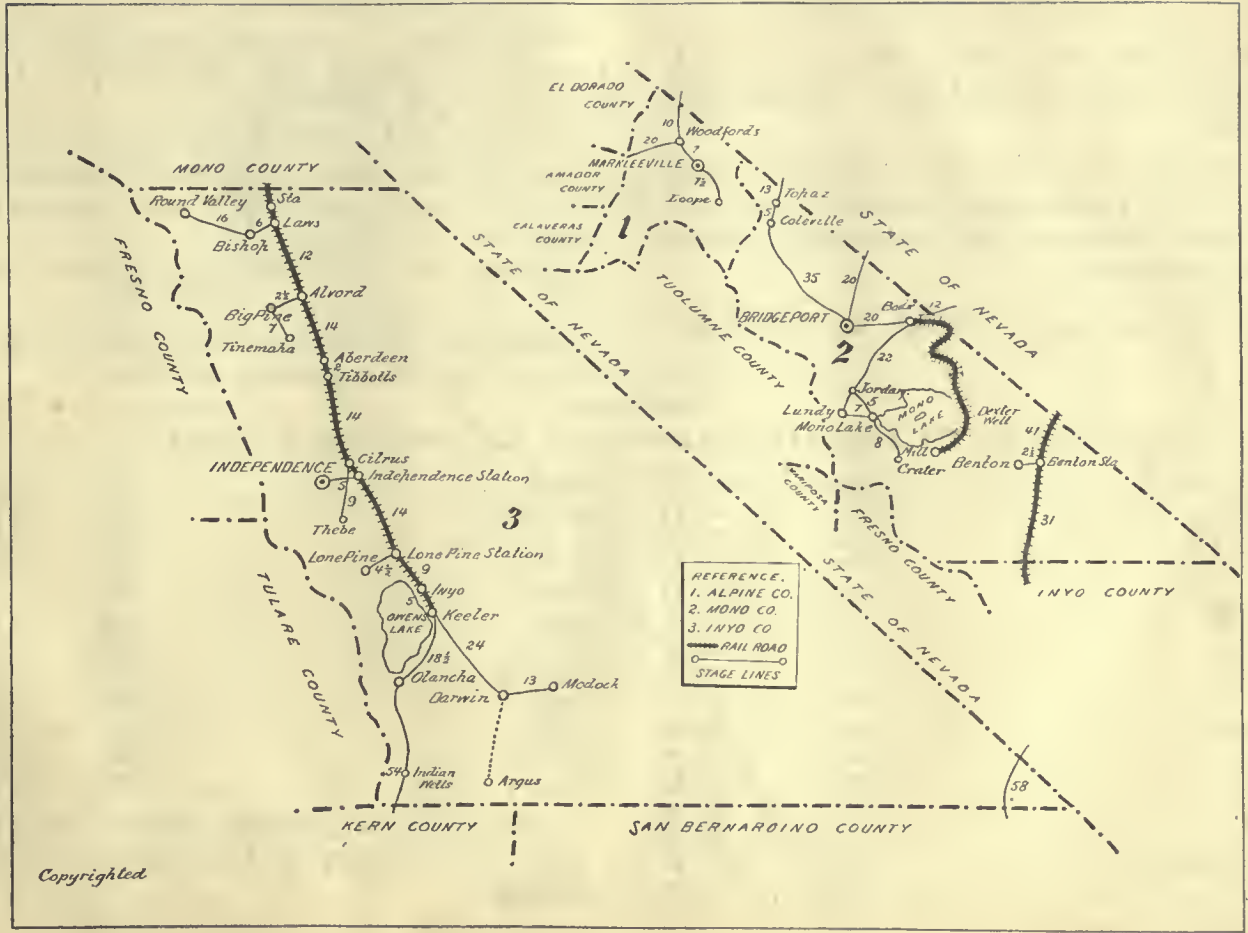
MONO COUNTY.

POPULATION: 1900, 2,167; 1890, 2,002. AREA, 2,190 Sq. M. County Seat, BRIDGEPORT. Assessed value, \$1,137,276.

One Year's Prod.: GOLD, \$670,200; SILVER, \$76,000; Lead, \$2,000; Lime, \$4,000. Total, one year, \$752,121, or over 66 per cent of assessed value.

TRAVERTINE rivaling that of Egypt has been shipped from this county to England. Antimony, soda, salt, borax, lime, limestone.

ALPINE, MONO AND INYO COUNTIES



Copyrighted

MONTEREY COUNTY.

POPULATION: 1900, 19,380; 1890, 18,637. AREA, 3,600 Sq. M. County Seat, SALINAS. Assessed value, \$18,016,456.

PRODUCTION: MINERAL WATERS, \$4,000; Brick, \$2,000; STONE, \$11,000; Rubble, \$2,800 annually. Antimony, asphalt, bituminous rock, coal, marble, chromite, magnesite, potter's clay.

GEMS: Garnet, jasper, PEARLS, ABALONE, porphyry.

SAN BENITO COUNTY.

POPULATION: 1900, 6,633; 1890, 6,412. AREA, 1,000 Sq. M. County Seat, HOLLISTER. Assessed value, \$6,018,740.

One Year's Prod.: QUICKSILVER, \$180,000; MINERAL WATERS, \$3,750; Lime, \$8,800; Macadam, \$13,000. Total, one year, \$205,650, or over 3 per cent of assessed value.

Antimony, bituminous rock, coal, gypsum, building stone.

FINENESS OF CALIFORNIA GOLD—By Hon. F. A. Leach, Supt. U. S. Mint, San Francisco.

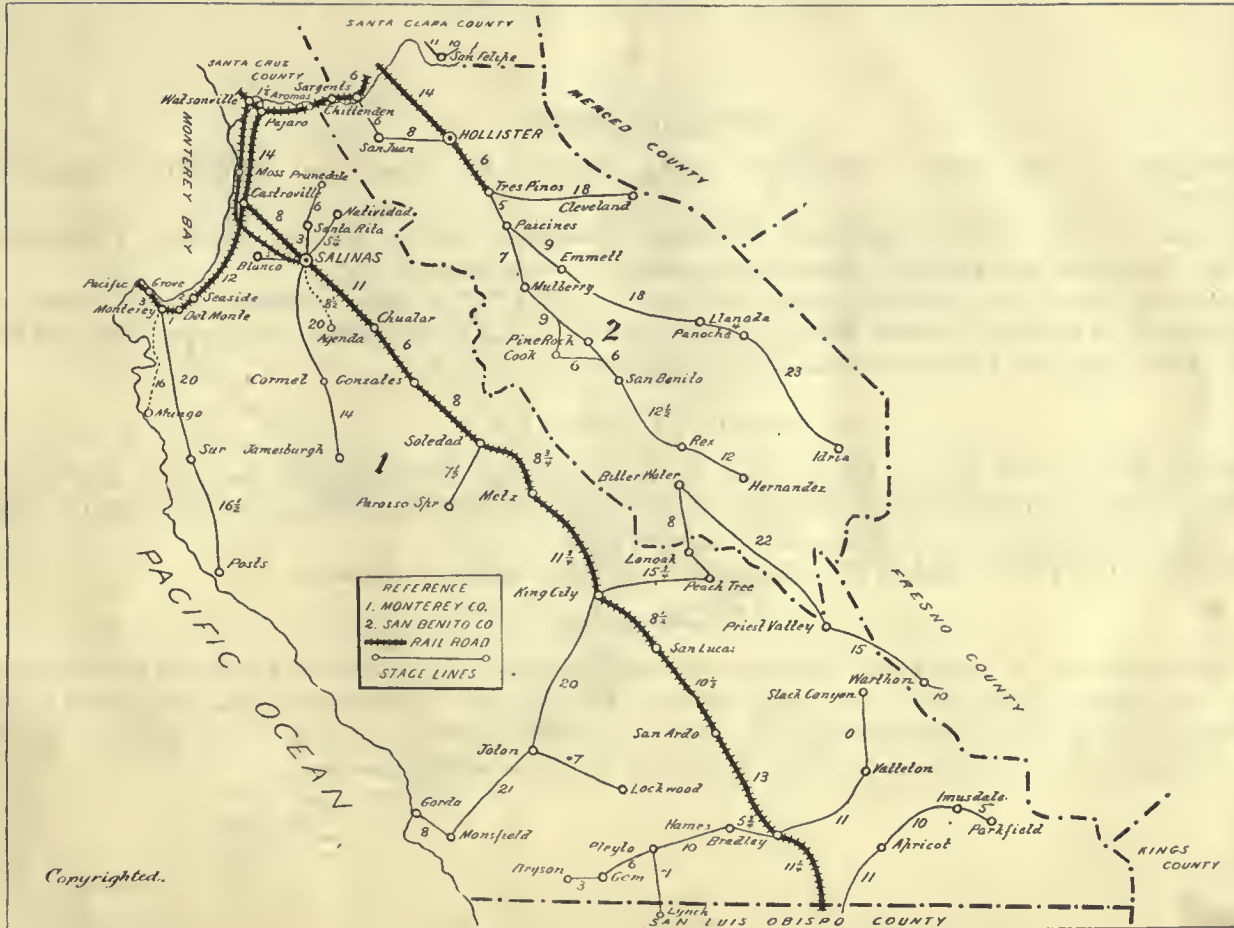
FINENESS OF CALIFORNIA GOLD—By Hon. F. A. Leach, Supt. U. S. Mint, S. F.

Amador County	836	\$17 28	Plumas	851	17 59
Butte	878	18 14	Sacramento	898	18 56
Calaveras	835	17 26	San Bernardino	705	14 57
El Dorado	868	17 94	San Diego	803	16 59
Fresno	805	16 64	Shasta	845	17 46
Humboldt	688	14 22	Sierra	858	17 23
Inyo	770	15 91	Siskiyou	852	17 61
Kern	754	15 58	Stanislaus	895	18 50
Lassen	890	18 39	Tehama	882	18 23
Los Angeles	789	16 31	Trinity	850	17 57
Madera	847	17 50	Tuolumne	804	16 62
Mariposa	805	16 64	Yuba	881	18 21
Merced	813	16 80			
Mono	550	11 36			
Nevada County	855	\$17 67			
Placer	792	16 37			

Average fineness, 817.8; average value per ounce, \$16.90.

Many mines produce gold of higher grade than any of the averages.

MONTEREY AND SAN BENITO COUNTIES



FRESNO COUNTY.

POPULATION: 1900, 37,862; 1890, 32,026. AREA, 5,940 Sq. M. County Seat, FRESNO. Assessed value, \$30,770,729.

One Year's Prod.: GOLD, \$22,000; MINERAL WATERS, \$4,000; BRICK, \$35,062; PETROLEUM, \$547,960. Total, one year, \$609,847, or nearly 2 per cent of assessed value.

Chrome, coal, copper, iron, gypsum, granite, graphite. GEMS: Chalcedony, chiastolite, garnet, jasper, semi-opal, turquoise. The main products of the county are AGRICULTURAL, there being over 300 MILES of MAIN CANAL, and over 1,000 miles of branch irrigating canals.

MADERA COUNTY.

POPULATION: 1900, 6,364. AREA, 2,140 Sq. M. County Seat, MADERA. Assessed value, \$6,289,942.

One Year's Prod.: GOLD, \$104,134; SILVER, \$4,000; COPPER, \$77,500; Brick, \$3,000; GRANITE, \$80,000. Total, one year, \$268,467, or over 4 per cent of assessed value.

BANNER COUNTY IN GRANITE. Marble of fine quality awaits development.

California petroleum is "fresh made" compared with the petroleum of the Eastern field and most other fields of the world. Pennsylvania petroleum comes from Silurian, Devonian and Carboniferous strata which were laid when the globe was young, while California's hydrocarbons were distilled, relatively speaking, but a week ago last Tuesday, and comes from Tertiary sandstones and shales, laid but a few million years ago.

SAN LUIS OBISPO COUNTY.

POPULATION: 1900, 16,637; 1890, 16,072. AREA, 3,258 Sq. M. County Seat, SAN LUIS OBISPO. Assessed value, \$12,313,984.

One Year's Prod.: QUICKSILVER, \$23,886; BITUMINOUS ROCK, \$13,000; Brick, \$4,000; RUBBLE, \$45,000.

Mineral Springs, gold, silver, iron, chromite, copper, manganese, gypsum, lime, asphalt, bituminous rock, alabaster, ONYX, kaolin, travertine, building stone, PETROLEUM, magnesite.

GEMS: Agalmatolite, aragonite, jasper, selenite, spinel, PEARLS.

CALIFORNIA'S GOLD RECORD.

1848.....	\$ 245,301	1867.....	18,265,452	1886.....	14,716,506
1849.....	10,151,360	1868.....	17,555,867	1887.....	13,588,614
1850.....	41,273,106	1869.....	18,229,044	1888.....	12,750,000
1851.....	75,938,232	1870.....	17,458,133	1889.....	11,212,913
1852.....	81,294,700	1871.....	17,477,885	1890.....	12,309,793
1853.....	67,613,487	1872.....	15,482,194	1891.....	12,728,869
1854.....	69,433,931	1873.....	15,019,210	1892.....	12,571,900
1855.....	55,485,395	1874.....	17,264,836	1893.....	12,422,811
1856.....	57,509,411	1875.....	16,876,009	1894.....	13,923,281
1857.....	43,628,172	1876.....	15,610,723	1895.....	15,334,317
1858.....	46,591,140	1877.....	16,501,268	1896.....	17,181,562
1859.....	45,846,599	1878.....	18,839,141	1897.....	15,871,401
1860.....	44,095,163	1879.....	19,626,654	1898.....	15,906,478
1861.....	41,884,995	1880.....	20,030,761	1899.....	15,336,031
1862.....	38,854,668	1881.....	19,223,155	1900.....	15,863,355
1863.....	23,501,736	1882.....	17,146,416		
1864.....	24,071,423	1883.....	24,316,873		
1865.....	17,930,858	1884.....	13,600,000		
1866.....	17,123,867	1885.....	12,661,044		
				Total	\$1,345,376,044

SAN LUIS OBISPO COUNTY



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KERN COUNTY.

POPULATION: 1900, 16,480; 1890, 9,808. AREA, 7,971 Sq. M. County Seat, BAKERSFIELD. Assessed value, \$21,129,890.

One Year's Prod.: GOLD, \$805,252; SILVER, \$147,736; PETROLEUM, \$827,348; ASPHALTUM; \$14,000; BRICK, \$17,300; LIME, \$51,700. Total, one year, \$1,867,856, or over 8 per cent of assessed value.

Sulphur, antimony, coal, mica, SALT, BORAX, ONYX, MARBLE and graphite.

KINGS COUNTY.

POPULATION: 1900, 9,871. AREA, 1,257 Sq. M. County Seat, HANFORD. Assessed value, \$7,565,903.

BRICK, \$5,000 annually; coal, petroleum, asphalt, gypsum.

BANNER COUNTY IN FULLERS EARTH. Main resources are agricultural.

TULARE COUNTY.

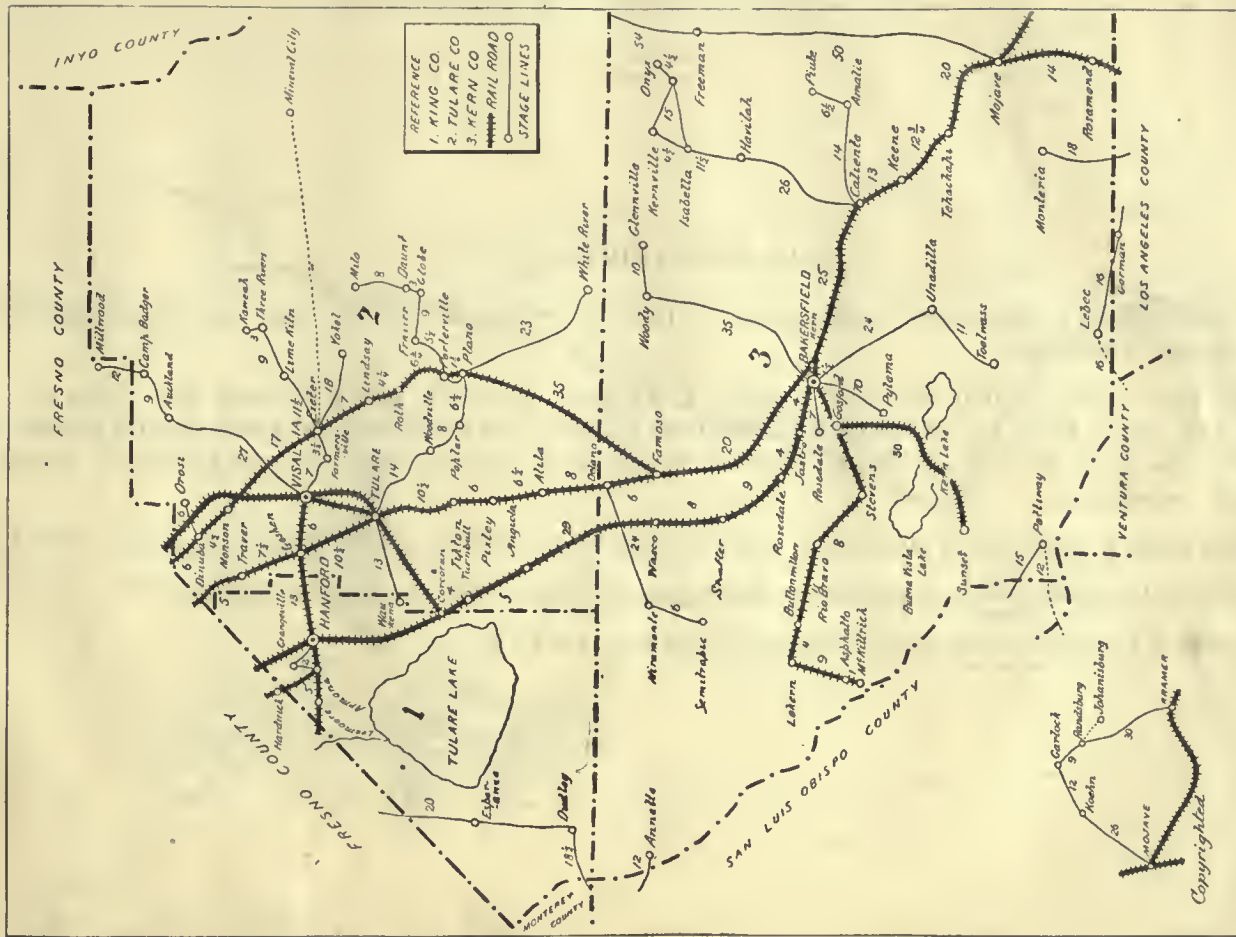
POPULATION: 1900, 18,375; 1890, 24,574. AREA, 5,592 Sq. M. County Seat, VISALIA. Assessed value, \$15,794,307.

One Year's Prod.: GOLD, \$10,000; MAGNESITE, \$1,500; BRICK, \$6,100; GRANITE, \$3,000; Gypsum, \$100.

Copper, petroleum, mineral springs, antimony, asbestos, marble, chromite.

GEMS: Moss agate, chrysoprase, garnet, semi-opal.

KINGS, TULARE AND KERN COUNTIES



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SAN BERNARDINO COUNTY.

POPULATION: 1900, 27,929; 1890, 25,497. AREA, 24,000 Sq. M. County Seat, SAN BERNARDINO. Assessed value, \$16,416,149.

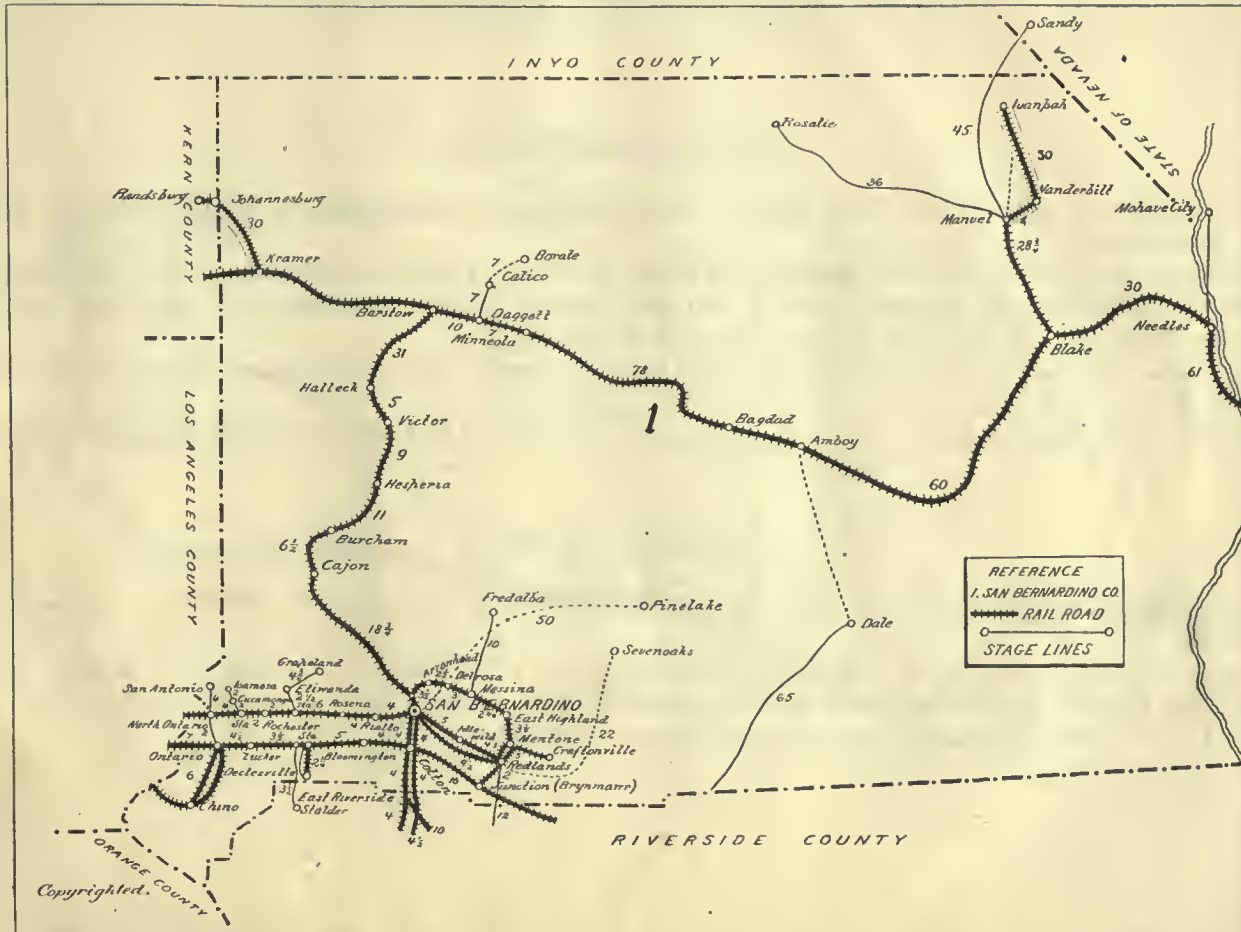
One Year's Prod.: GOLD, \$247,949; SILVER, \$172,759; COPPER, \$297,600; Lead, \$500; BORAX, refined, \$151,135; crude, \$848,215; TURQUOISE, \$20,000; CEMENT, \$121,000; Granite, \$5,600; LIME, \$33,260; Stone, \$8,000; Macadam, \$15,000; RUBBLE, \$42,657; Paving Blocks, \$2,500. Total, one year, \$1,965,143, or over 11 per cent of assessed value.

TIN, asbestos, MARBLE, Fullers earth, mica, NITER, SALT, SODA, apatite, potters' clays, iron, ONYX.

GEMS: Aragonite, azurite, chalcedony, hematite, jasper, obsidian, ONYX, selenite, TURQUOISE.

BANNER COUNTY IN BORAX, TURQUOISE, AND CEMENT.

SAN BERNARDINO COUNTY



SANTA BARBARA COUNTY.

POPULATION: 1900, 18,934; 1890, 15,754. AREA, 2,380 Sq. M. County Seat, SANTA BARBARA. Assessed value, \$13,969,868.

One Year's Prod.: Gold, \$5,000 to \$8,000; MINERAL WATERS, \$10,350; Natural Gas, \$3,000; ASPHALTUM, \$105,500; PETROLEUM, \$165,000; BRICK, \$41,000; Granite, \$2,500; SANDSTONE, \$117,260; RUBBLE, \$80,000. Total, one year, \$528,438, or over 3 per cent of assessed value.

Bituminous rock, coal, chromite, potters' clays, lime, sulphur, ochre, BARYTA, garnet, graphite, quicksilver, gypsum, diatomaceous earth.

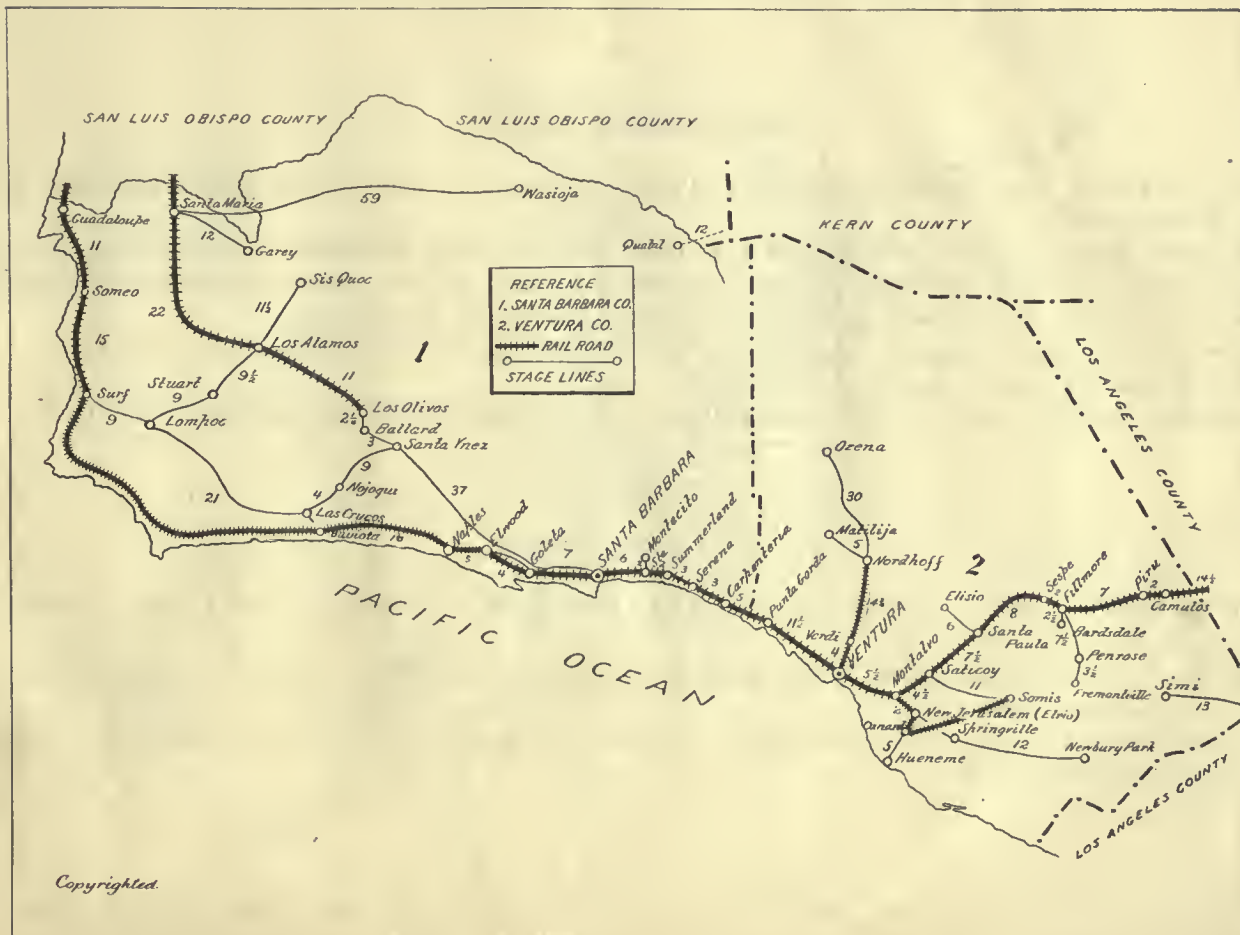
GEMS: Chalcedony, abalone, jasper, pearls, selenite, pectolite. ABALONE SHELLS exported, \$10,000 annually.

VENTURA COUNTY.

POPULATION: 1900, 14,367; 1890, 10,071. AREA, 1,852 Sq. M. County Seat, VENTURA. Assessed value, \$8,658,243.

One Year's Prod.: Gold, \$2,500; ASPHALTUM, \$31,670; PETROLEUM, \$398,700; Brick, \$2,000; GRANITE, \$28,000; Sandstone, \$6,000; Rubble, \$6,000; BORAX, \$5,000. Total, one year, \$476,161, or over 5 per cent of assessed value. Bituminous rock, talc, and gypsum are abundant.

SANTA BARBARA AND VENTURA COUNTIES



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LOS ANGELES COUNTY.

POPULATION: 1900, 170,298; 1890, 101,454. AREA, 4,000 Sq. M. County Seat, LOS ANGELES. Assessed value, \$103,328,904.

One Year's Prod.: Gold, \$5,500; GYPSUM, \$10,000; ASPHALTUM, \$100,000; PETROLEUM, \$1,722,887; Pottery, \$10,776; BRICK, \$275,925; Sandstone, \$4,000; Macadam, \$6,000; Rubble, \$18,552; SERPENTINE, \$2,000; Salt, \$2,000. Total, one year, \$2,155,198, or over 2 per cent of assessed value.

Asbestos, coal, marble, steatite, sulphur, talc, alum, potash, ONYX, chromite, corundum, graphite.

GEMS: Obsidian, garnet, pearls, siderite, selenite.

BANNER COUNTY IN GYPSUM, ASPHALTUM, PETROLEUM, BRICK, AND SERPENTINE.

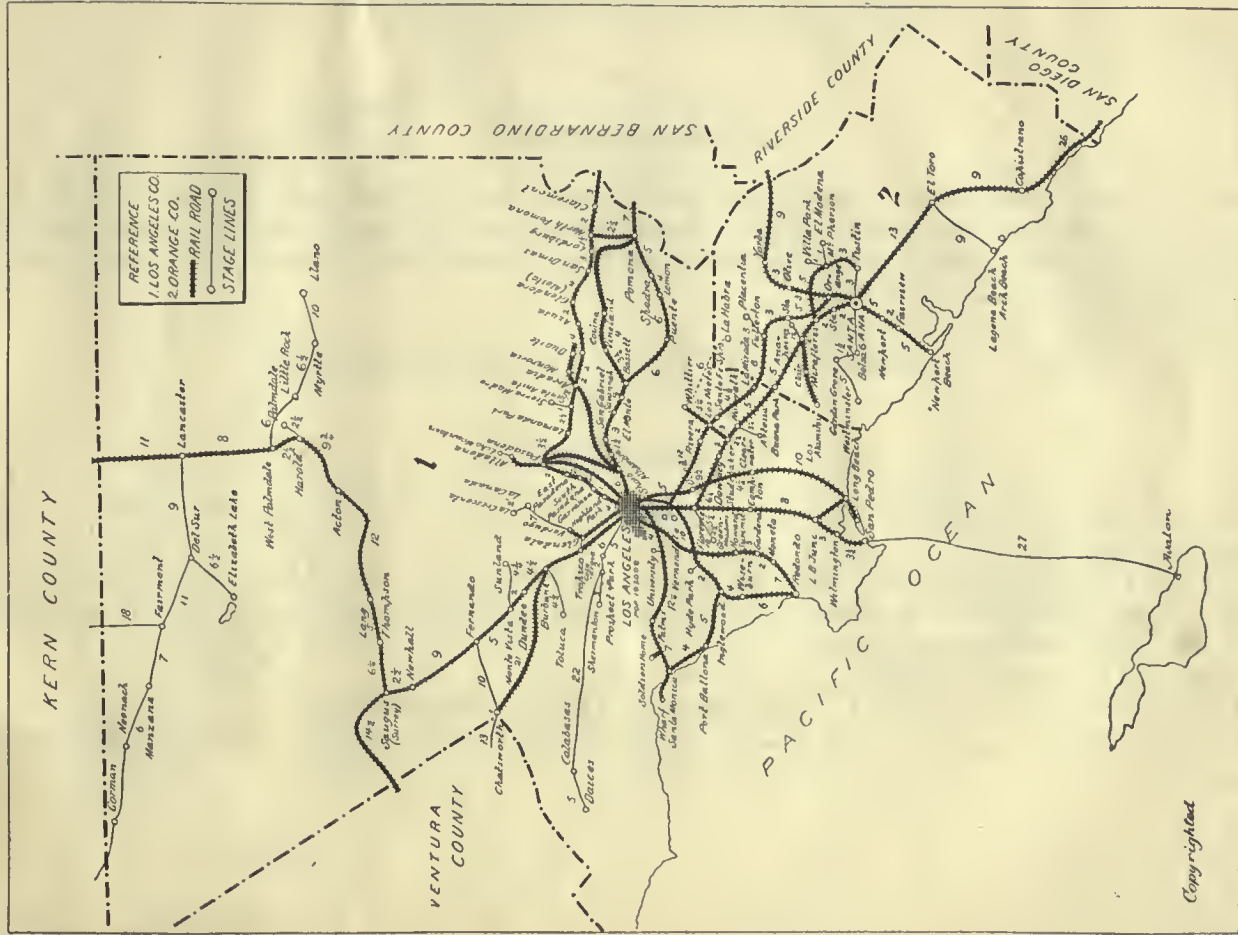
ORANGE COUNTY.

POPULATION: 1900, 19,696; 1890, 13,589. AREA, 780 Sq. M. County Seat, SANTA ANA. Assessed value, \$11,245,544.

One Year's Prod.: Gold, \$2,500; Coal, \$2,250; PETROLEUM, \$254,397. Total, one year, \$259,174, or over 2 per cent of assessed value.

Coal and lead are known to exist in the county. Sandstone is abundant. The main resources are ORANGES, NUTS, SUGAR BEETS, etc.

LOS ANGELES AND ORANGE COUNTIES



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RIVERSIDE COUNTY.

POPULATION: 1900, 17,897. AREA, 7,000 Sq. M. County Seat, RIVERSIDE. Assessed value, \$12,248,709. One Year's Prod.: GOLD, \$150,000; SILVER, \$7,000; COAL, \$15,000; SALT, \$8,000; ASBESTOS, \$1,250; BRICK \$29,000; POTTERY, \$18,000; GRANITE, \$57,600; QUARTZ SAND, \$200. Total, one year, \$285,112, or over 2 per cent of assessed value.

Asbestos, antimony, copper, lime, talc, niter.

BANNER COUNTY IN ASBESTOS, POTTERY CLAY, AND GLASS SAND.

SAN DIEGO COUNTY.

POPULATION: 1900, 35,090; 1890, 34,987. AREA, 14,548 Sq. M. County Seat, SAN DIEGO. Assessed value, \$19,961,959.

One Year's Prod.: GOLD, \$335,937; SILVER, \$20,000; MINERAL WATER, \$3,250; SALT, \$4,000; LITHIA MICA, \$11,000; TOURMALINE, \$500; Brick, \$3,261; Granite, \$10,000; Rubble, \$14,400. Total, one year, \$402,061, or over 2 per cent of assessed value.

Asbestos and tin have been found.

BANNER COUNTY IN LITHIA MICA, RUBELLITE, AND TOURMALINE.

GEMS: Aragonite, cassiterite, chrysocolla, garnet, lazulite, lepidolite, malaehite, obsidian, selenite, tourmaline, pearls.

California State Mining Bureau

Ferry Building, San Francisco, Cal.

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Map of Mother Lode.05	.02

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Reconnaissance of the Colorado Desert Mining Dis- trict, in San Diego County.15	.02
Register of Mines, with map, Plumas County.....	.25	.08
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IN PREPARATION.

Register of Mines, with map, Mariposa County.
Register of Mines, with map, Santa Barbara County.
Register of Mines, with map, San Diego County.
Register of Mines, with map, Kern County.
Register of Mines, with map, Sierra County.
Bulletin—Quicksilver Mining in California.
Bulletin—Gold Dredging in California.

Samples of any mineral found in the State may be sent to the Bureau for identification, and the same will be classified free of charge. It must be understood, however, that *no assays, or quantitative determinations, will be made.* Samples should be in lump form if possible and marked plainly with name of sender, post-office address, etc., and a stamp should be enclosed for reply.

LEWIS E. AUBURY,
State Mineralogist.



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