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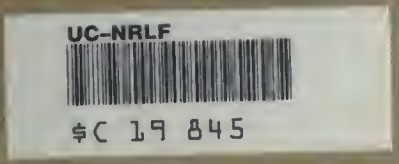

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THE MINERALS OF CALIFORNIA

AND COUNTY ATLAS.

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ISSUED BY THE

CALIFORNIA STATE MINING BUREAU

FERRY 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.

TO VIN
AINOTLIA

INDEX TO COUNTIES

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Relief Map of California

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

Minerals of California
ISSUED BY THE
CALIFORNIA STATE MINING BUREAU

LEWIS E. AUBURY
State Mineralogist

CALIFORNIA

UNIV. OF 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 350 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 19 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

STATISTICAL REPORT

OF THE

CALIFORNIA STATE MINING BUREAU:

LEWIS E. AUBURY, STATE MINERALOGIST.

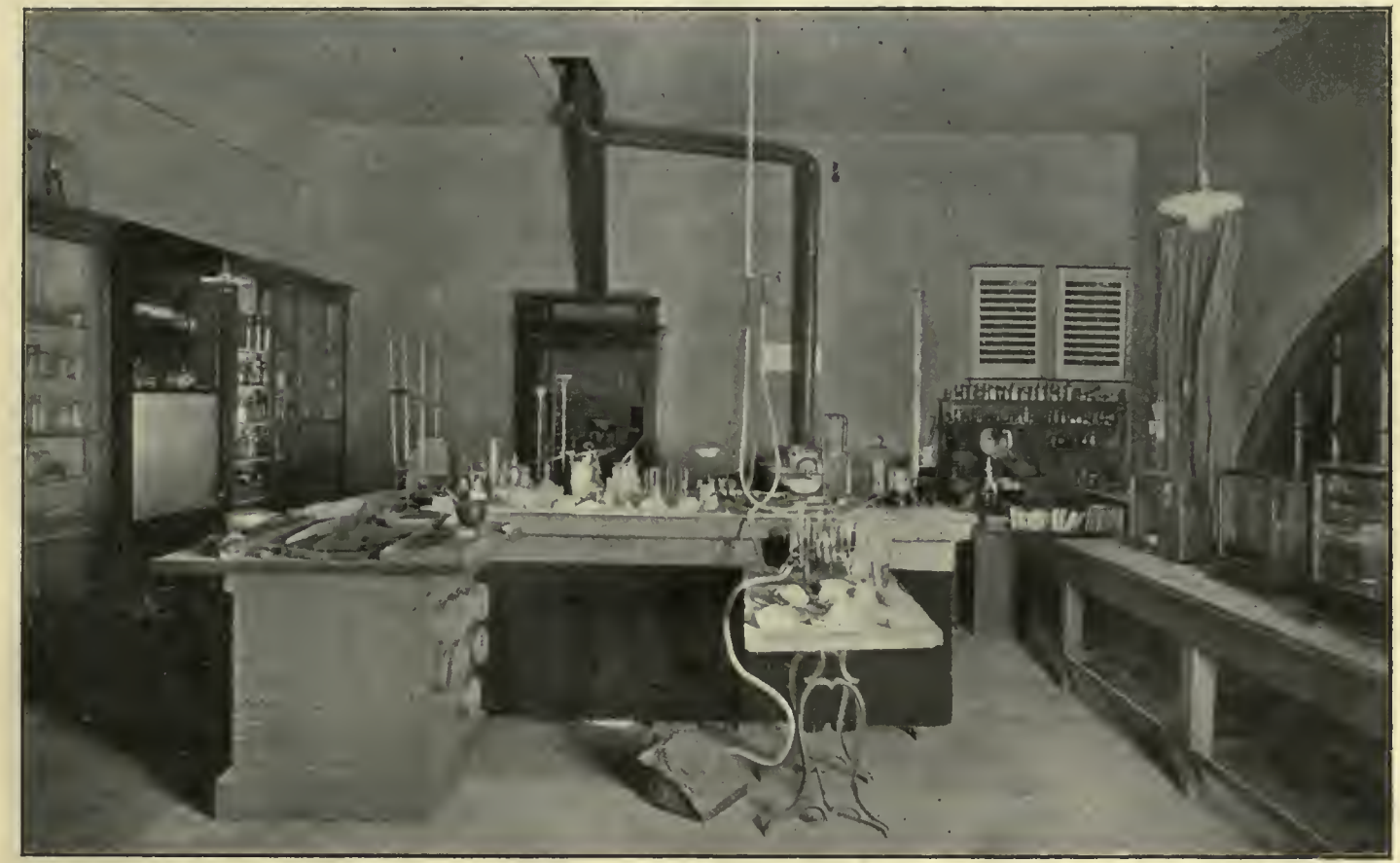
SHOWING THE MINERAL PRODUCTIONS OF CALIFORNIA FOR 14 YEARS.

COMPILED BY CHARLES G. YALE, STATISTICIAN.

PRODUCTS	1887 QUANTITY	1887 VALUE	1888 QUANTITY	1888 VALUE	1889 QUANTITY	1889 VALUE	1890 QUANTITY	1890 VALUE	1891 QUANTITY	1891 VALUE
Antimony ...Tons	75	$15,500	100	$20,000	----	----	----	----	----	----
Asbestos ...Tons	30	1,800	30	1,800	30	1,800	71	$4,260	66	$3,960
Asphalt ...Tons	4000	16,000	3,100	38,500	3,000	30,000	3,000	30,000	4,000	40,000
Bituminous Rock Tons	36,000	160,000	50,000	257,000	40,000	170,000	40,400	160,000	39,962	154,164
Borax ...Lbs	2,029,380	116,580	2,808,000	196,834	1,938,650	145,473	6,402,034	480,183	6,583,337	640,000
Cement ...Bbls	----	----	----	----	----	----	----	----	3,000	15,000
Chrome ...Tons	2,000	40,000	1,300	60,000	8,000	80,000	3,599	53,985	1,372	20,580
Clay-Brick ...M	----	----	----	----	----	----	----	----	----	----
Clay-Pottery ...Tons	75,000	37,500	75,000	37,500	75,000	37,500	100,000	50,000	100,000	50,000
Coal ...Tons	50,000	150,000	95,000	380,000	121,260	280,232	110,711	283,019	93,301	204,902
Copper ...Lbs	1,600,000	192,000	1,570,021	230,303	151,505	16,160	85,347	5,502	3,487,465	401,675
Fullers Earth ...Tons	----	----	----	----	----	----	----	----	----	----
Gold	----	13,588,614	----	12,750,000	----	11,212,913	----	12,309,793	----	12,728,869
Granite ...Cu.Ft.	----	150,000	----	57,000	----	1,329,018	----	1,200,000	----	1,300,000
Gypsum ...Tons	2,700	27,000	2,500	25,000	3,000	30,000	8,000	80,000	2,000	20,000
Infusorial Earth ...Tons	----	----	----	----	30	1,335	----	----	----	----
Iron Ore ...Tons	----	----	----	----	----	----	----	----	----	----
Lead ...Tons	580	58,200	480	38,250	470	35,720	400	36,000	370	40,020
Lime and Limestone	----	344,350	----	361,750	----	446,760	----	350,000	----	300,000
Lithia Mica ...Tons	----	----	----	----	----	----	----	----	----	----
Macadam ...Tons	----	----	----	----	----	----	----	----	----	----
Magnesite ...Tons	600	9,000	600	9,000	600	9,000	600	9,000	1,500	15,000
Manganese ...Tons	1,000	9,000	1,500	13,500	33	801	386	3,176	705	3,830
Marble ...Cu.Ft.	----	9,000	----	5,000	----	87,030	----	80,000	----	100,000
Mineral Paint ...Tons	----	----	----	----	----	----	40	480	22	660
Mineral Water ...Gals	618,162	144,344	1,112,702	252,990	808,625	252,241	258,722	88,766	334,553	185,859
Natural Gas ...Cu.Ft.	----	----	----	10,000	----	12,680	----	33,000	----	30,000
Onyx and Travertine	----	900	----	900	----	900	----	1,500	----	2,400
Paving Blocks ...M	----	----	----	----	----	----	----	----	----	----
Petroleum ...Bbls	678,572	1,357,144	690,333	1,380,666	303,220	368,048	307,360	384,200	323,600	401,264
Platinum ...Ozs	100	400	500	2,000	500	2,000	600	7,500	100	500
Pyrites ...Tons	----	----	----	----	----	----	----	----	----	----
Quartz Crystals	----	----	----	----	----	----	----	----	----	----
Quicksilver ...Flasks	33,760	1,425,000	33,250	1,413,125	26,464	1,190,500	22,926	1,203,615	22,904	1,036,386
Rubble ...Tons	----	----	----	----	----	----	----	----	----	----
Salt ...Tons	28,000	112,000	30,800	92,400	21,000	63,000	8,729	37,085	20,094	90,303
Sand-Glass ...Tons	----	----	----	----	----	----	----	----	----	----
Sand-Quartz ...Tons	----	----	----	----	----	----	----	----	----	----
Sandstone ...Cu.Ft.	----	175,000	----	150,000	----	175,598	----	100,800	----	100,000
Serpentine ...Cu.Ft.	----	----	----	----	----	----	----	----	----	----
Silver	----	1,632,003	----	1,700,000	----	754,794	----	1,060,613	----	833,157
Slate ...Squares	----	----	----	----	4,500	18,000	4,800	24,000	4,000	24,000
Soapstone ...Tons	----	----	----	----	----	----	----	----	----	----
Soda ...Tons	----	----	----	----	----	----	----	----	----	----
Sulphur ...Tons	----	----	----	----	----	----	----	----	----	----
Tin ...Lbs	----	----	----	----	----	----	----	----	125,289	27,564
Tourmaline	----	----	----	----	----	----	----	----	----	----
Turquoise ...Lbs	----	----	----	----	----	----	----	----	----	----
TOTALS	----	$18,780,868	----	$18,448,320	----	$16,681,731	----	$18,039,666	----	$18,872,413

PRODUCTS	1892 QUANTITY	1892 VALUE	1893 QUANTITY	1893 VALUE	1894 QUANTITY	1894 VALUE	1895 QUANTITY	1895 VALUE	1896 QUANTITY	1896 VALUE
Antimony ...Tons	----	----	30	$2,250	150	$6,000	33	$1,488	17	$2,380
Asbestos ...Tons	50	$1,830	30	2,500	50	2,750	25	1,000	----	----
Asphalt ...Tons	7,560	75,500	8,160	131,260	11,686	233,800	25,525	170,500	20,914	342,580
Bituminous Rock Tons	24,000	72,000	32,000	192,036	31,214	115,193	38,921	121,386	48,456	127,300
Borax ...Lbs	11,050,495	836,787	7,910,563	593,292	11,540,000	807,807	11,918,000	595,900	13,508,000	675,400
Cement ...Bbls	5,000	15,000	----	----	6,000	21,600	16,383	42,536	8,500	28,250
Chrome ...Tons	1,500	22,500	3,319	49,785	3,680	38,980	1,740	16,795	786	7,775
Clay-Brick ...M	----	----	105,900	801,750	61,679	457,125	131,772	672,360	24,000	324,740
Clay-Pottery ...Tons	100,000	50,000	28,698	87,264	26,475	33,073	37,460	38,685	41,907	92,000
Coal ...Tons	85,178	209,711	72,603	167,555	59,887	138,862	78,858	193,790	70,649	161,335
Copper ...Lbs	2,980,944	347,808	239,682	21,871	738,384	72,486	225,620	21,601	1,992,644	199,518
Fullers Earth ...Tons	----	----	----	----	----	----	----	----	----	----
Gold	----	12,571,900	----	12,422,811	----	13,923,281	----	15,334,317	----	17,181,562
Granite ...Cu.Ft.	----	1,000,000	----	531,322	512,345	226,816	286,440	224,329	186,781	201,004
Gypsum ...Tons	2,000	20,000	1,620	14,280	2,446	24,584	8,158	51,014	1,310	12,580
Infusorial Earth ...Tons	----	----	50	2,000	61	2,040	----	----	----	----
Iron Ore ...Tons	----	----	250	2,000	200	1,500	----	----	----	----
Lead ...Tons	680	34,400	333	24,975	475	28,500	796	49,384	646	36,803
Lime and Limestone	----	300,000	----	501,276	----	337,875	----	457,784	----	332,617
Lithia Mica ...Tons	----	----	----	----	----	----	----	----	----	----
Macadam ...Tons	----	----	271,500	256,875	441,967	369,436	840,650	700,507	646,646	510,045
Magnesite ...Tons	1,500	15,000	1,093	10,930	1,440	10,840	2,200	17,000	1,500	11,000
Manganese ...Tons	300	3,000	270	4,000	575	8,512	600	8,700	516	3,415
Marble ...Cu.Ft.	----	115,000	----	40,000	38,441	98,326	14,864	56,566	7,880	32,415
Mineral Paint ...Tons	25	750	390	26,795	610	14,140	730	8,475	360	5,540
Mineral Water ...Gals	331,875	162,019	383,179	100,667	402,275	184,481	781,957	291,500	808,843	337,454
Natural Gas ...Cu.Ft.	----	55,000	----	68,500	----	79,072	----	112,000	----	114,457
Onyx and Travertine	----	1,800	----	22,000	----	20,000	----	12,000	----	24,000
Paving Blocks ...M	----	----	2,770	96,850	2,517	64,981	2,332	73,336	4,181	77,364
Petroleum ...Bbls	385,049	381,333	470,179	608,092	783,078	1,064,521	1,245,339	1,000,235	1,257,780	1,180,793
Platinum ...Ozs	80	440	75	517	100	600	150	900	162	844
Pyrites ...Tons	----	----	----	----	----	----	----	----	----	----
Quartz Crystals	----	----	----	----	----	----	----	----	----	----
Quicksilver ...Flasks	27,993	1,129,600	30,164	1,108,527	30,416	934,000	36,104	1,337,131	30,765	1,075,449
Rubble ...Tons	----	----	99,600	99,280	219,933	295,400	414,086	394,857	815,973	319,630
Salt ...Tons	23,570	104,788	50,500	213,000	48,151	140,067	53,081	150,576	64,743	153,244
Sand-Glass ...Tons	----	----	----	----	----	----	----	----	----	----
Sand-Quartz ...Tons	----	----	----	----	----	----	----	----	----	----
Sandstone ...Cu.Ft.	----	50,000	----	26,314	----	113,593	----	35,515	----	28,379
Serpentine ...Cu.Ft.	----	----	----	----	----	----	4,000	4,000	1,500	6,000
Silver	----	463,607	----	537,157	----	297,332	----	599,789	----	412,464
Slate ...Squares	3,500	21,000	3,000	21,000	1,600	11,700	1,350	9,450	500	2,500
Soapstone ...Tons	----	----	400	17,750	----	----	25	375	----	----
Soda ...Tons	----	----	----	----	1,550	20,000	1,900	47,500	8,000	66,000
Sulphur ...Tons	----	----	----	----	----	----	----	----	----	----
Tin ...Lbs	162,000	32,400	----	----	----	----	----	----	----	----
Tourmaline	----	----	----	----	----	----	----	----	----	----
Turquoise ...Lbs	----	----	----	----	----	----	----	----	----	----
TOTALS	----	$16,300,168	----	$18,811,261	----	$20,203,294	----	$22,844,663	----	$24,291,398

PRODUCTS	1897 QUANTITY	1897 VALUE	1898 QUANTITY	1898 VALUE	1899 QUANTITY	1899 VALUE	1900 QUANTITY	1900 VALUE	TOTALS FOR 14 YEARS QUANTITY	TOTALS FOR 14 YEARS VALUE
Antimony ...Tons	20	$3,300	40	$1,200	75	$13,500	70	$3,700	880	$71,485
Asbestos ...Tons	----	----	10	200	30	750	50	1,250	472	25,400
Asphalt ...Tons	22,097	404,330	23,690	482,175	13,060	308,130	12,575	233,950	167,959	2,607,745
Bituminous Rock Tons	45,470	128,175	46,836	137,575	40,321	116,097	25,306	71,495	559,466	1,917,619
Borax ...Lbs	16,000,000	1,080,000	16,600,000	1,153,000	40,714,000	1,138,882	51,674,000	1,013,251	202,630,000	9,476,269
Cement ...Bbls	18,000	66,000	50,000	150,000	60,000	180,000	37,000	181,000	223,883	679,406
Chrome ...Tons	----	----	----	----	----	----	140	1,400	22,656	302,800
Clay-Brick ...M	97,460	583,340	100,102	571,362	125,950	754,730	137,191	905,210	802,056	5,250,517
Clay-Pottery ...Tons	24,392	30,290	28,947	55,747	40,600	42,700	58,636	60,956	811,675	635,135
Coal ...Tons	87,440	196,258	143,045	337,475	160,941	420,108	176,956	335,331	1,406,868	3,667,776
Copper ...Lbs	13,638,626	1,540,666	21,543,229	2,479,166	23,915,486	3,990,534	28,518,512	4,748,242	101,532,895	14,286,555
Fullers Earth ...Tons	----	----	----	----	870	12,400	500	3,750	1,120	16,150
Gold	----	15,871,401	----	15,906,478	----	15,336,031	----	15,863,355	----	197,001,325
Granite ...Cu.Ft.	339,296	188,024	96,368	147,732	128,924	141,070	511,803	280,772	----	7,565,900
Gypsum ...Tons	2,200	18,250	3,100	25,600	3,663	14,950	2,522	10,088	37,219	322,346
Infusorial Earth ...Tons	5	200	----	----	----	----	----	----	145	5,575
Iron Ore ...Tons	----	----	----	----	----	----	----	----	450	3,500
Lead ...Tons	286	20,264	328	23,907	360	30,642	520	41,600	6,506	523,647
Lime and Limestone	----	291,456	----	278,558	----	343,760	----	315,231	----	4,775,937
Lithia Mica ...Tons	----	----	----	----	124	4,600	440	11,000	564	15,600
Macadam ...Tons	487,911	313,887	452,691	369,082	323,580	238,467	380,067	267,510	3,825,562	3,022,151
Magnesite ...Tons	1,145	13,871	1,264	19,075	1,280	18,460	2,252	19,335	18,141	166,729
Manganese ...Tons	504	4,080	440	2,102	295	3,165	131	1,310	7,305	65,241
Marble ...Cu.Ft.	4,102	7,280	6,050	23,594	9,402	10,550	4,105	5,891	----	666,652
Mineral Paint ...Tons	576	8,169	654	9,698	1,704	20,294	529	3,995	5,806	99,160
Mineral Water ...Gals	1,508,192	345,853	1,429,600	213,817	1,338,537	406,686	2,436,115	268,807	12,492,486	3,276,428
Natural Gas ...Cu.Ft.	----	62,657	----	74,424	113,110,000	85,000	40,566,500	34,576	----	778,366
Onyx and Travertine	----	----	----	----	----	----	----	----	----	91,400
Paving Blocks ...M	1,711	33,235	1,144	21,725	505	7,861	1,192	23,775	10,132	31.636
Petroleum ...Bbls	1,911,569	1,918,269	2,249,088	2,376,420	2,677,875	2,660,793	4,329,950	4,152,928	17,612,992	10,414,706
Platinum ...Ozs	150	900	300	1,800	300	1,800	----	----	3,117	18,501
Pyrites ...Tons	----	----	6,000	30,000	3,400	28,620	3,642	24,133	15,042	78,753
Quartz Crystals	----	----	----	----	----	----	----	16,000	----	16,000
Quicksilver ...Flasks	26,648	993,445	31,092	1,188,626	29,454	1,405,045	26,317	1,182,786	408,257	16,633,255
Rubble ...Tons	553,213	287,025	324,574	443,385	641,300	547,075	426,600	299,072	3,175,426	2,797,706
Salt ...Tons	67,851	157,520	93,421	170,855	62,654	149,586	66,896	204,754	682,862	1,859,200
Sand-Glass ...Tons	----	----	----	----	2,000	2,000	2,000	2,000	4,000	4,000
Sand-Quartz ...Tons	----	----	----	----	1,000	1,500	200	200	1,200	1,700
Sandstone ...Cu.Ft.	----	84,066	----	46,384	56,264	103,584	578,466	254,140	----	1,382,349
Serpentine ...Cu.Ft.	2,500	2,500	750	3,000	500	2,000	330	2,000	9,600	19,500
Silver	----	452,789	----	414,055	----	504,012	----	1,310,344	----	11,302,110
Slate ...Squares	400	2,800	400	2,800	910	5,900	3,500	26,250	27,760	189,489
Soapstone ...Tons	----	----	----	----	----	----	----	----	425	18,125
Soda ...Tons	5,000	110,000	7,000	154,000	10,000	250,000	1,000	50,000	20,450	696,500
Sulphur ...Tons	----	----	2	50	----	----	----	----	2	50
Tin ...Lbs	----	----	----	----	----	----	----	----	287,289	59,964
Tourmaline	----	----	----	----	----	----	----	500	----	600
Turquoise ...Lbs	----	----	----	----	----	----	500	20,000	500	20,000
TOTALS	----	$25,142,441	----	$27,289,079	----	$29,313,460	----	$32,622,945	----	$311,667,707



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.

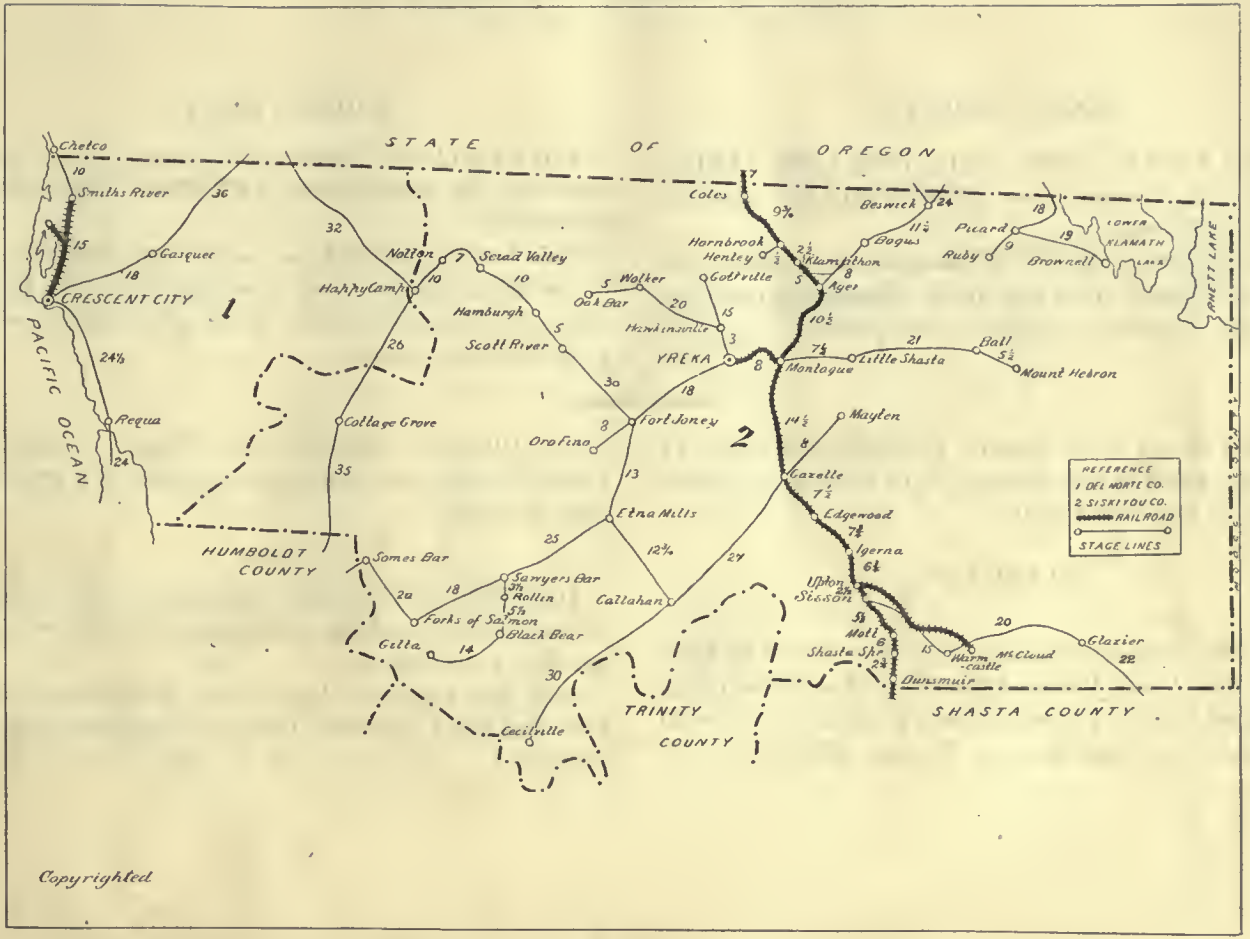
POPULATION, 1900, 16,962; 1890, 12,163. AREA, 5,680 Sq. M. County Seat, YREKA. Assessed value, $8,991,828. One Year's Product: GOLD, $951,397; MINERAL WATERS, $45,000; SILVER, $14,000. Total, one year: $1,010,383; over 11 per cent total assessed values.

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.

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.

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.

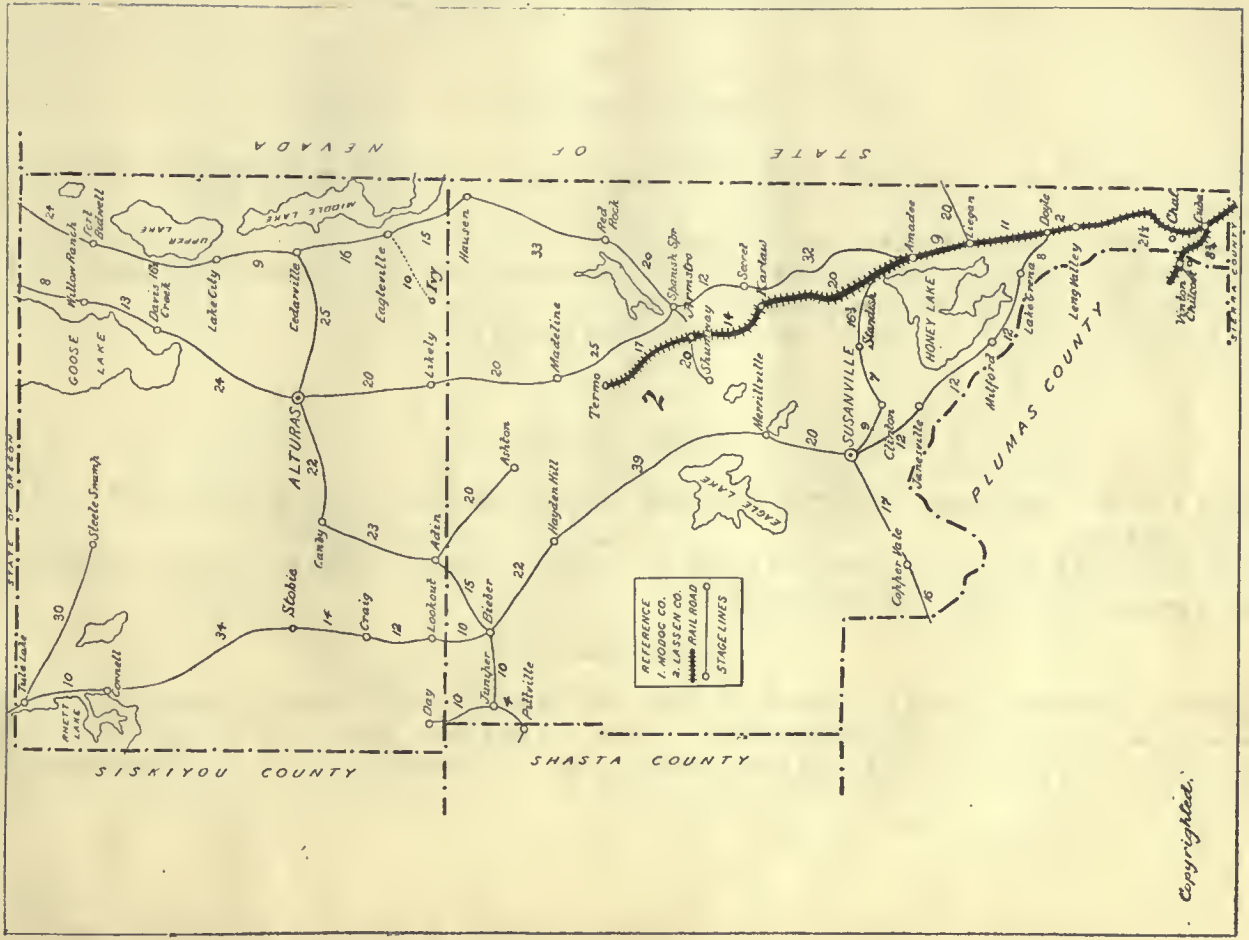
Over 200 authentic diamonds have been found in California. The Moore Diamond from Cherokee, Butte County, weighed two and a quarter carats (9 grains). From 50 to 60 others have been found in the same locality.

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 inthe 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

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.


SHASTA COUNTY
SISKIYOU COUNTY
TEHAMA COUNTY
MENDOCINO COUNTY
PACIFIC OCEAN
REFERENCE
1. HUMBOLDT CO.
2. TRINITY CO.
RAIL ROAD
STAGE LINES
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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 toexist. 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.

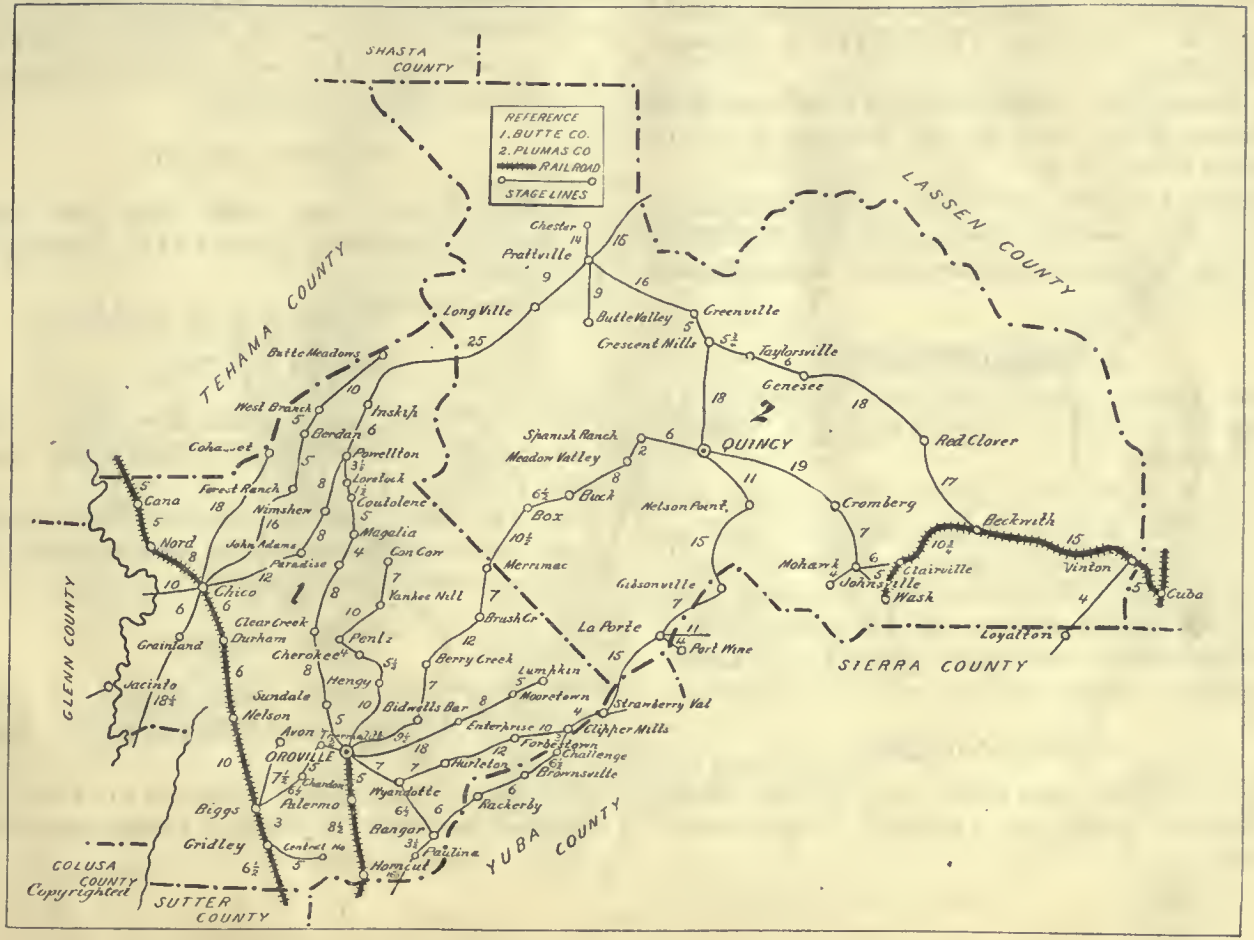
One Year's Prod.: GOLD, $365,210; Silver, $4,159. Total, one year, $369,379, or over 17 per cent assessed value.

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.

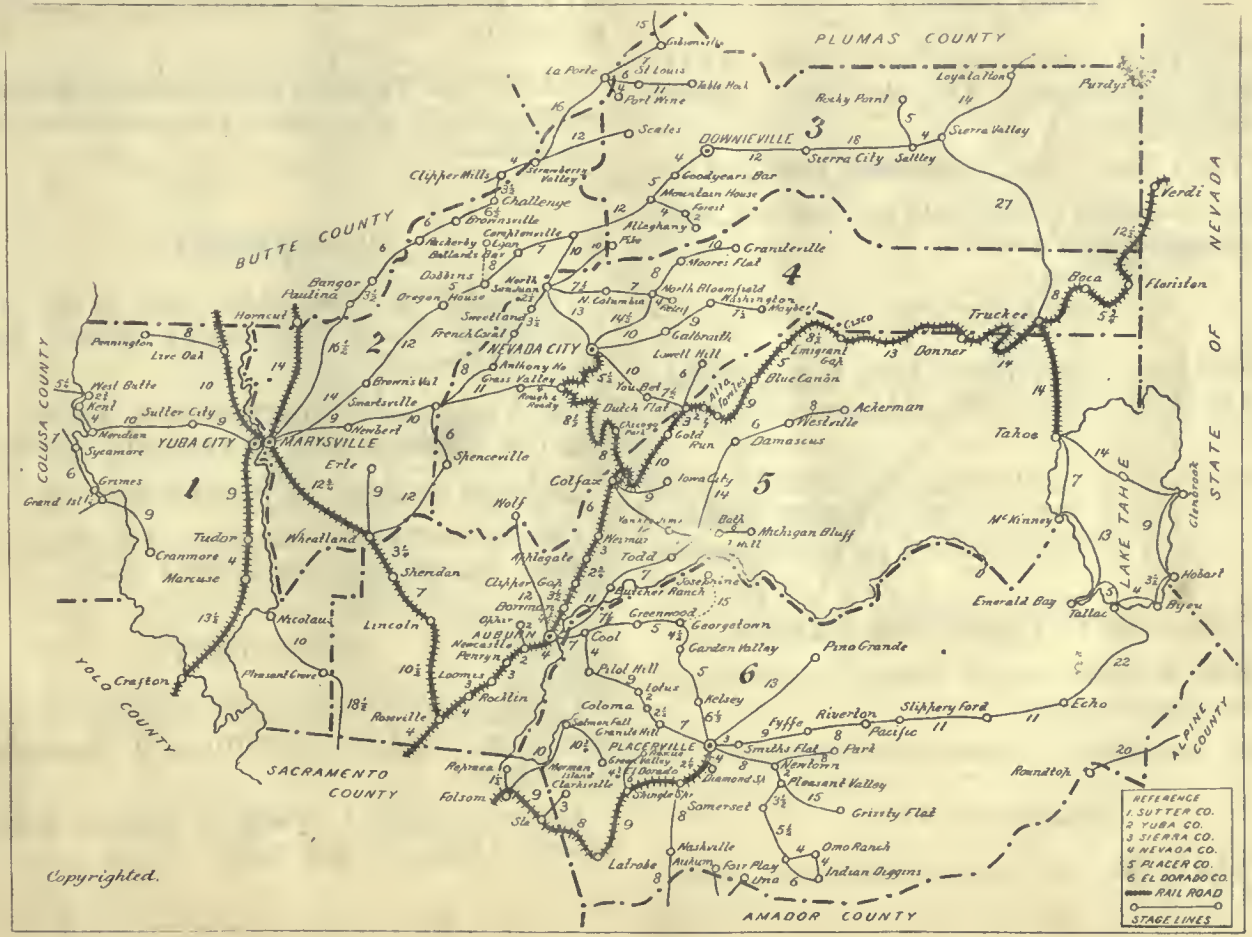
YUBA COUNTY.

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, PLACER AND EL DORADO COUNTIES



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.

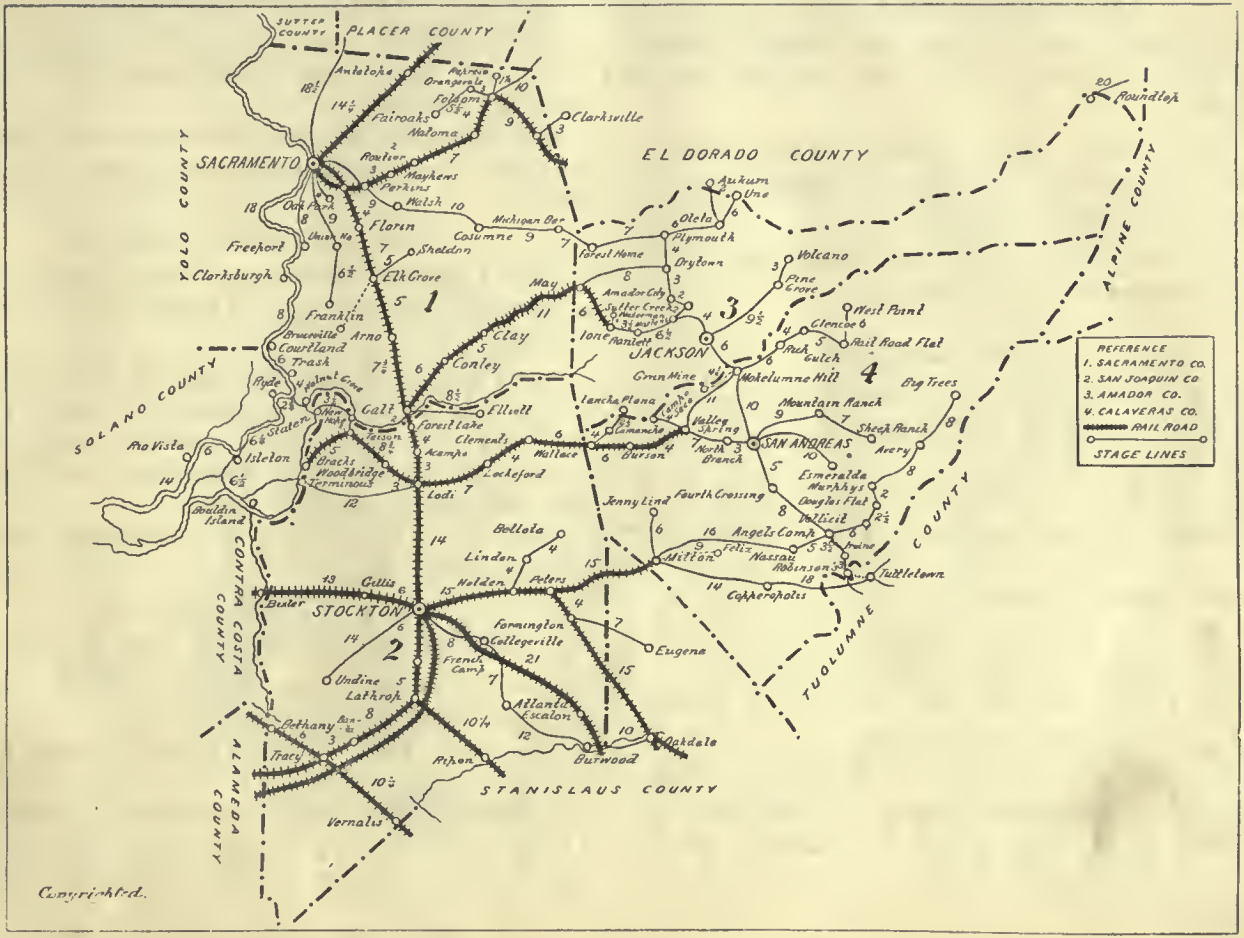
GEMS. Agate, garnet, epidote, jasper, opal, semi-opal, gold quartz, QUARTZ, RUTILE.

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.

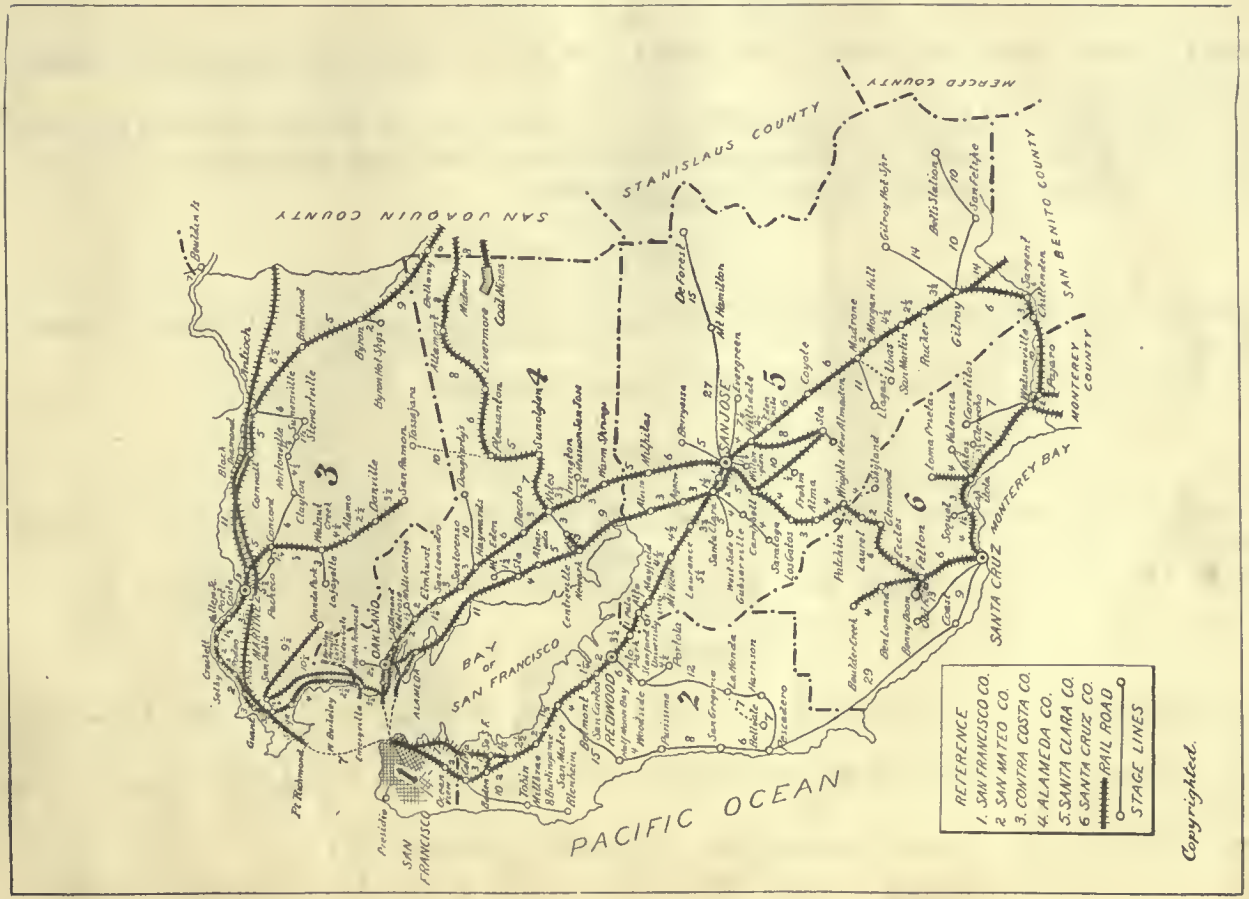
SANTA CRUZ COUNTY.

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



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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, talc.

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.

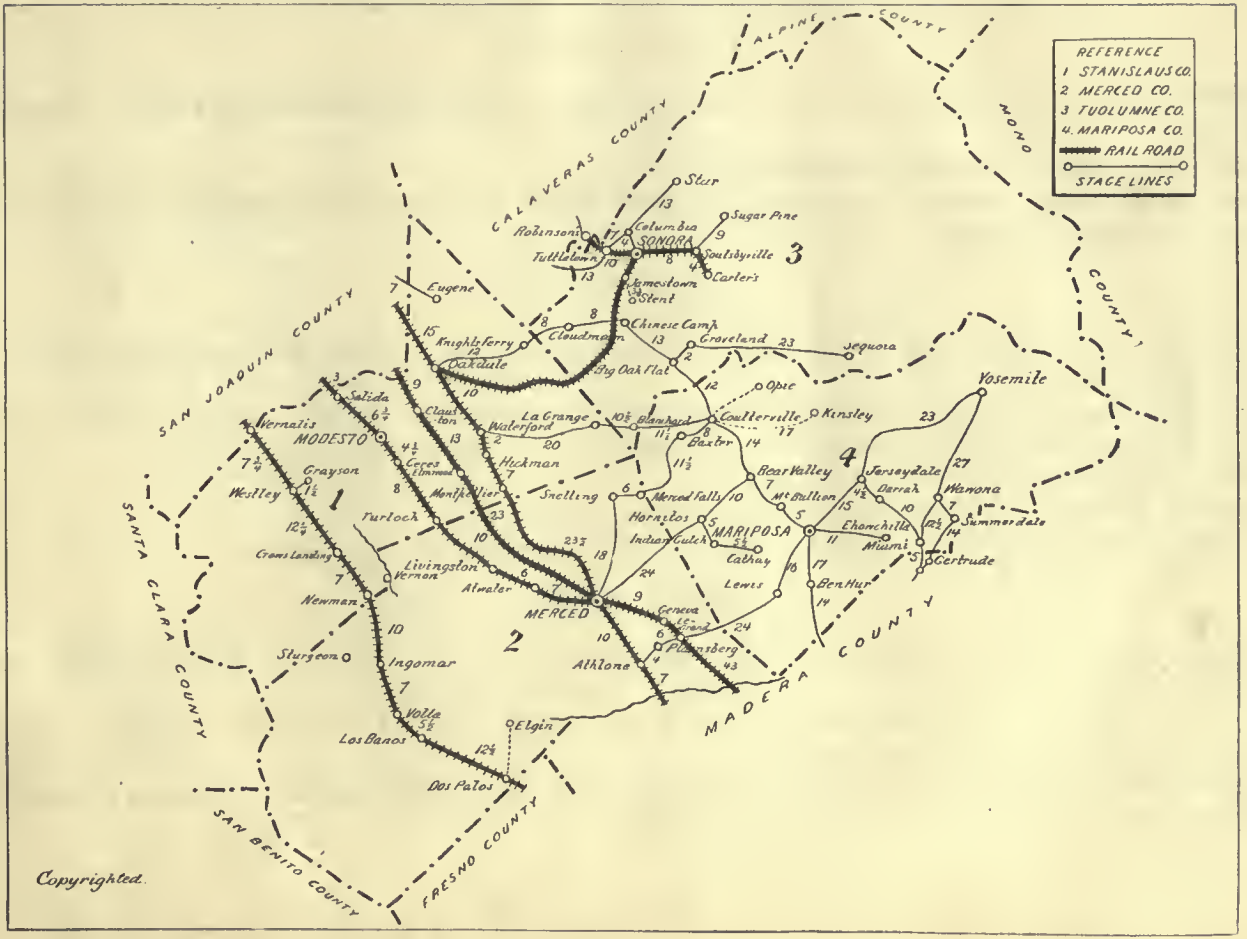
TUOLUMNE COUNTY.

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, talc.

STANISLAUS, MERCED, TUOLUMNE AND MARIPOSA COUNTIES



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.

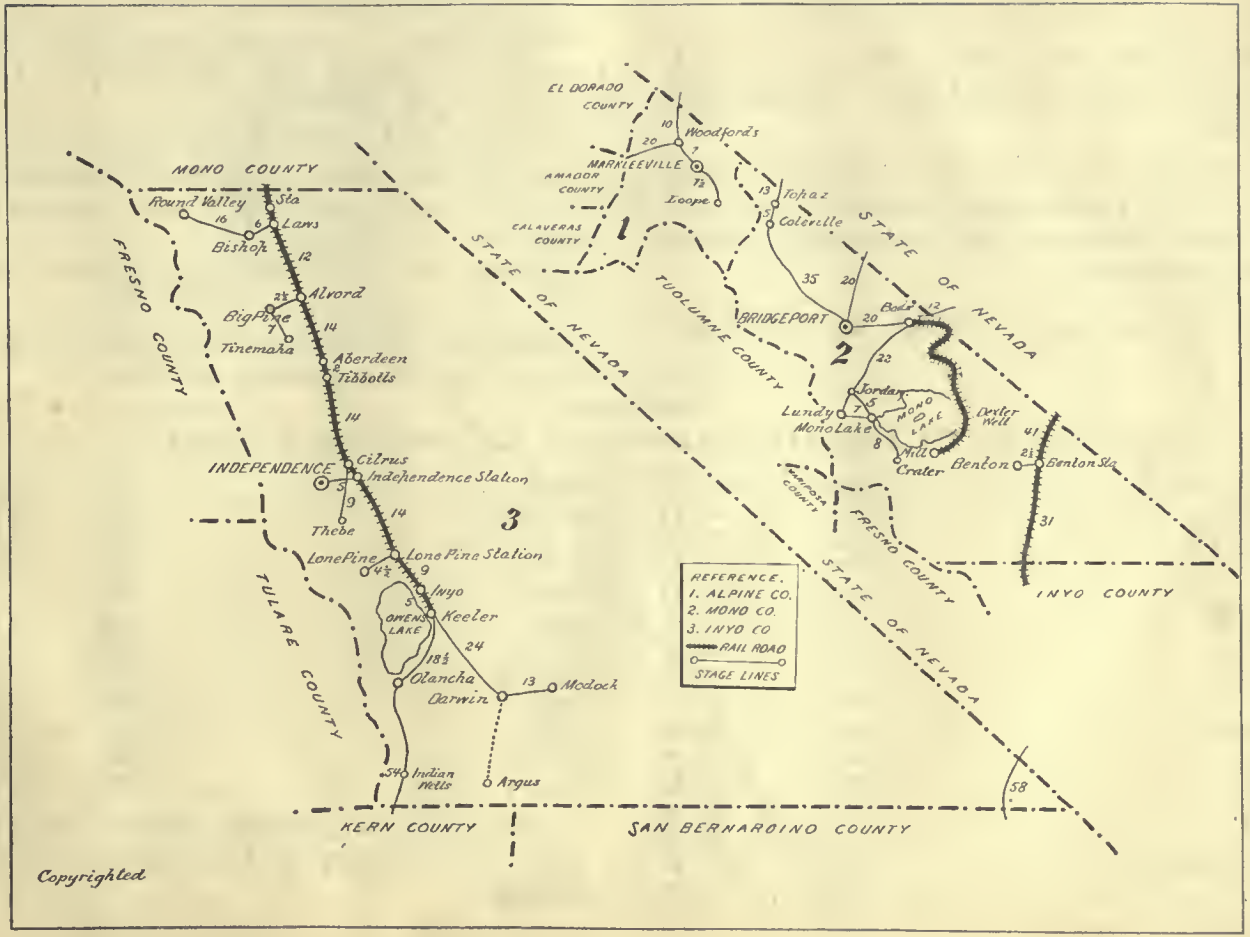
GEMS: Chrysocolla, datolite, fluorite, garnet, grossularite, lepidolite, obsidian, quartz.

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.


EL DORADO COUNTY
Woodfords
MARKLEEVILLE
AMADOR COUNTY
Loope
CALAVERAS COUNTY
Topaz
Coleville
STATE OF NEVADA
TUOLUMNE COUNTY
BRIDGEPORT
Bodie
Jordan
Lundy
Mono Lake
Dexter Well
Hill
Crater
Benton
Benton Sta
MONO COUNTY
Round Valley
Sta
Lava
Bishop
Alvord
Big Pine
Tinemaha
Aberdeen
Tibbetts
FRESNO COUNTY
INDEPENDENCE
Citrus
Independence Station
Thebe
Lone Pine
Lone Pine Station
Inyo
Keeler
OWENS LAKE
Olancha
Darwin
Modock
Indian Wells
Argus
TULARE COUNTY
KERN COUNTY
SAN BERNARDINO COUNTY
INYO COUNTY
MONTEREY COUNTY
REFERENCE.
1. ALPINE CO.
2. MONO CO.
3. INYO CO
RAIL ROAD
STAGE LINES
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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
Butte	878	18 14
Calaveras	835	17 26
El Dorado	868	17 94
Fresno	805	16 64
Humboldt	688	14 22
Inyo	770	15 91
Kern	754	15 58
Lassen	890	18 39
Los Angeles	789	16 31
Madera	847	17 50
Mariposa	805	16 64
Merced	813	16 80
Mono	550	11 36
Nevada County	855	$17 67
Placer	792	16 37
Plumas	851	17 59
Sacramento	898	18 56
San Bernardino	705	14 57
San Diego	803	16 59
Shasta	845	17 46
Sierra	858	17 23
Siskiyou	852	17 61
Stanislaus	895	18 50
Tehama	882	18 23
Trinity	850	17 57
Tuolumne	804	16 62
Yuba	881	18 21

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.

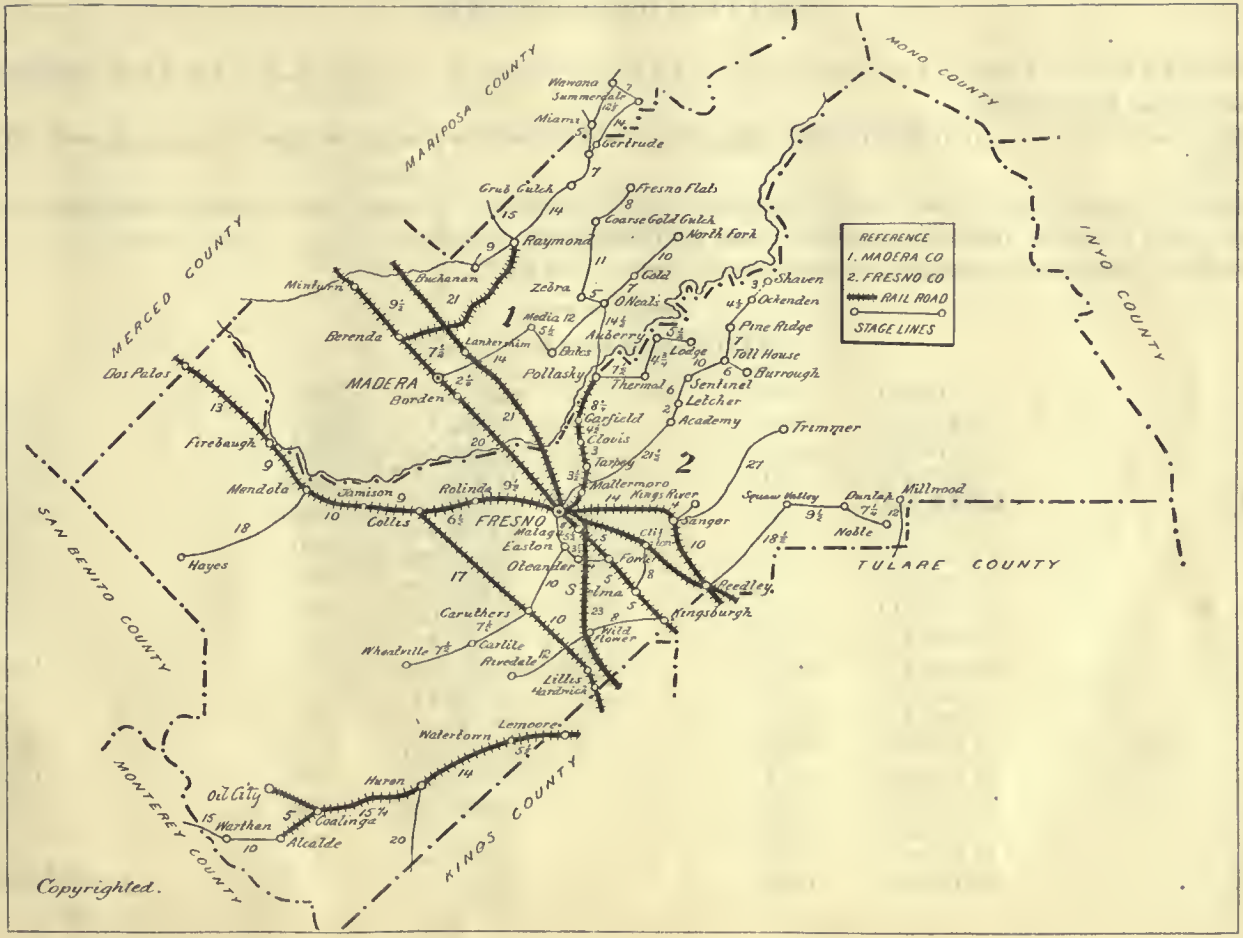
POPULATION: 1900, 6,364. AREA, 2,140 Sq. M. County Seat, MADERA. Assessed value, $6,289,942.

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.

MADERA AND FRESNO COUNTIES



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.

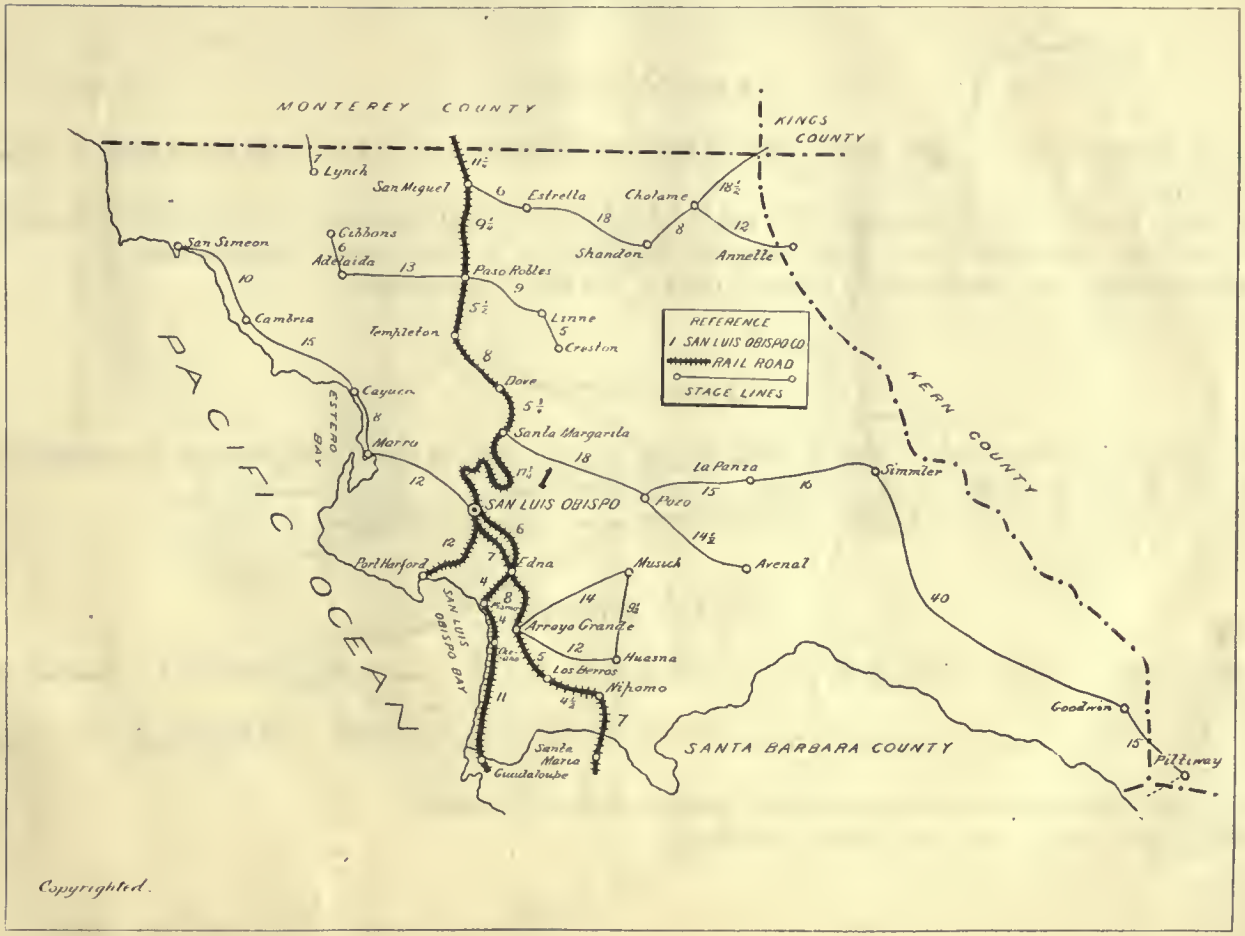
Mineral Springs, gold, silver, iron, chromite, copper, manganese, gypsum, lime, asphalt, bituminous rock, alabaster, ONYX, kaolin, travertine, building stone, PETROLEUM, magnesite.

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	Total	$1,345,376,044
1866	17,123,867	1885	12,661,044		

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

SAN BERNARDINO COUNTY.

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

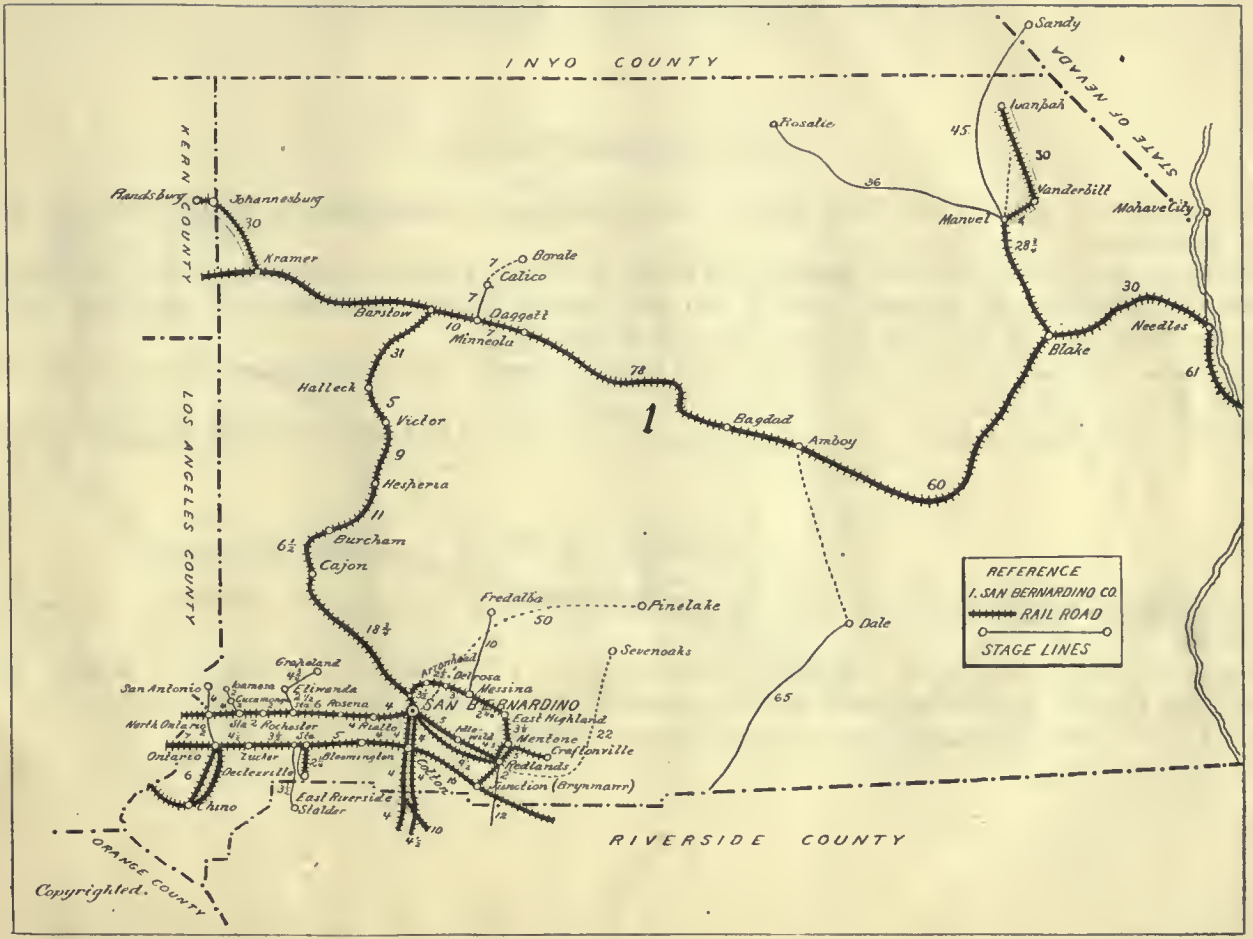
One Year's Prod.: GOLD, $247,949; SILVER, $172,759; COPPER, $297,600; Lead, $500; BORAX, refined, $151,135; crude, $848,215; TURQUOISE, $20,000; CEMENT, $121,000; Granite, $5,600; LIME, $33,260; Stone, $8,000; Macadam, $15,000; RUBBLE, $42,657; Paving Blocks, $2,500. Total, one year, $1,965,143, or over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

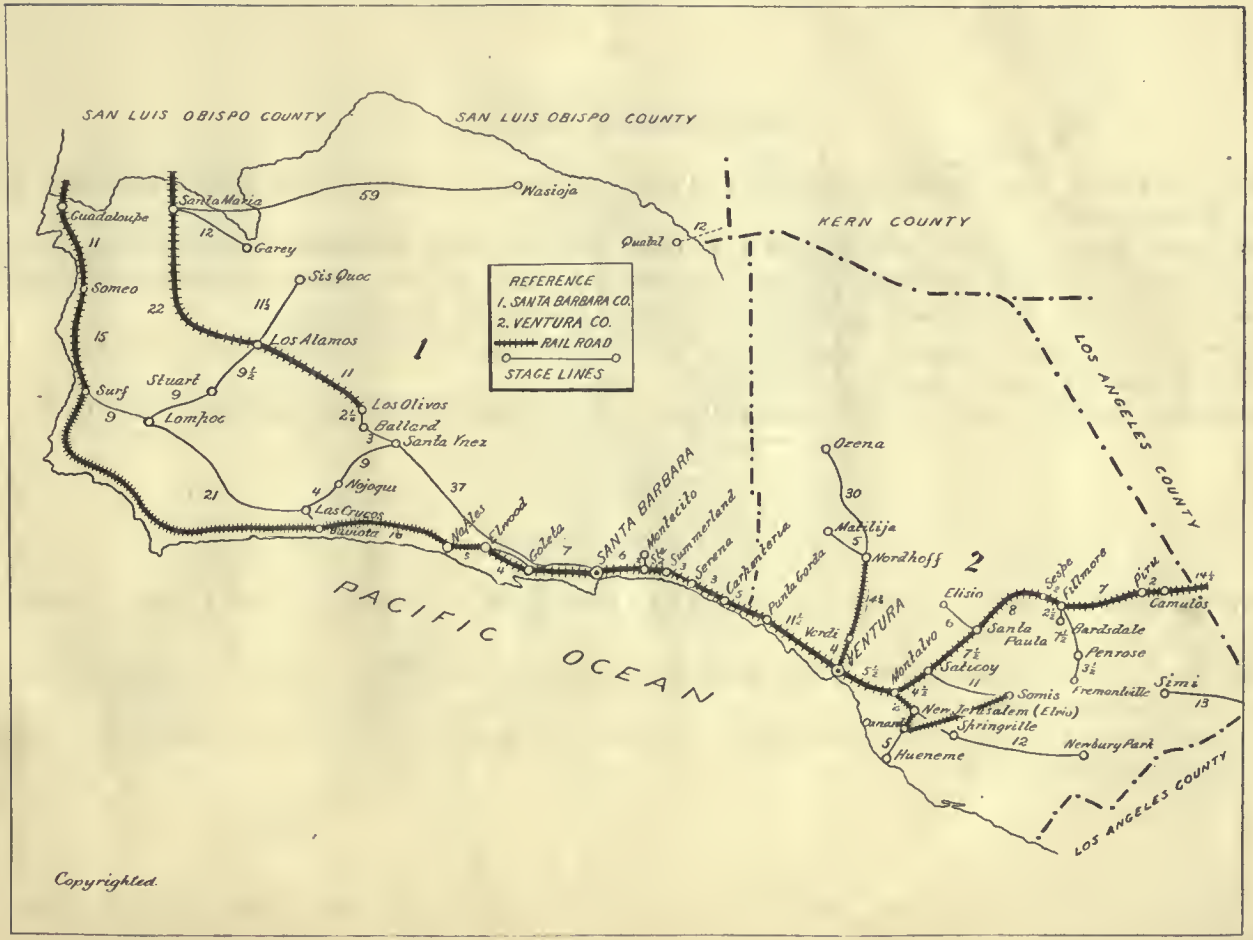
GEMS: Chalcedony, abalone, jasper, pearls, selenite, pectolite. ABALONE SHELLS exported, $10,000 annually.

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



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.

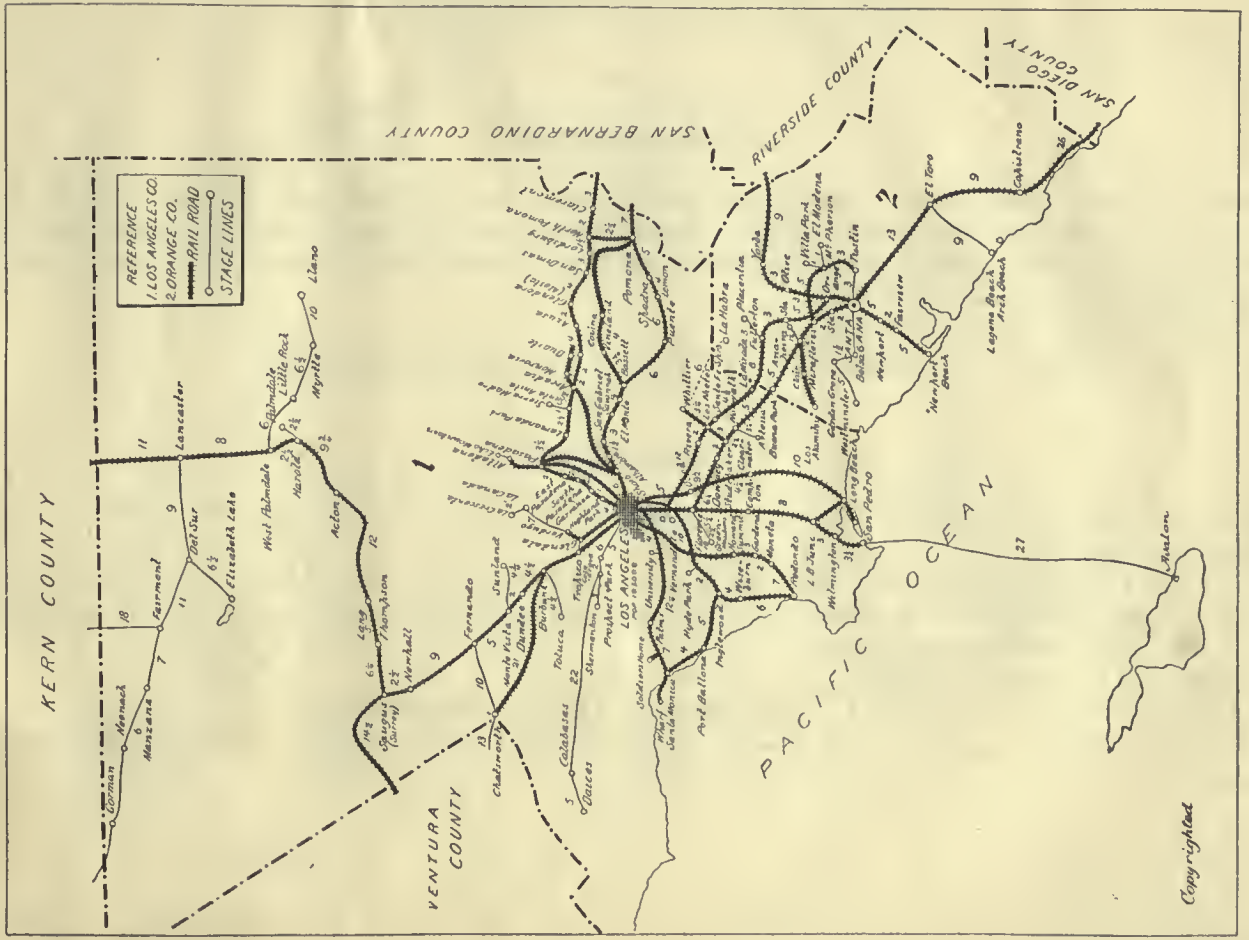
ORANGE COUNTY.

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



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, malachite, obsidian, selenite, tourmaline, pearls.

UNIV. OF CALIFORNIA

California State Mining Bureau

Ferry Building, San Francisco, Cal.

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(All publications not mentioned are exhausted.)

	Price.	Postage.
Report XI—1892, First Biennial	$1.00	$0.15
Report XIII—1896, Third Biennial	1.00	.20
Bulletin No. 2— "Methods of Mine Timbering."	.30	.04
Bulletin No. 5— "Cyanide Process" (4th edition)	.35	.04
Bulletin No. 6— "Gold Mill Practices in California" (3d ed.)	.50	.04
Bulletin No. 9— "Mine Drainage, Pumps, etc."	.35	.07
Bulletin No. 15— "Map of Oil City Oil Fields, Fresno Co., Cal."	.05	.02
Bulletin No. 16— "Genesis of Petroleum and Asphaltum in California." (3d edition)	.30	.03
Bulletin No. 18— "Mother Lode Region in California."	.35	.06
Bulletin No. 19— "Oil and Gas Yielding Formations in California."	.75	.09
Bulletin No. 21— "Mineral Production of California, 1900."		.02
Bulletin No. 22— "Mineral Production of California for past 14 years."		.02
Bulletin No. 23— "Copper Resources of California."	50	12
Bulletin No. 24— "Saline Deposits of California."	.50	.10
Bulletin No. 25— "Mineral Production of California, 1901."		.02
Map of Mother Lode.	.05	.02

JUST ISSUED.

Reconnaisance of the Colorado Desert Mining District, in San Diego County.	.15	.02
Register of Mines, with map, Plumas County	.25	.08
Register of Mines, with map, Calaveras County	.25	.08
Register of Mines, with map, Siskiyou County.	.25	.08
Register of Mines, with map, Trinity County	.25	.08
Register of Mines, with map, Lake County	.25	.08
Register of Mines, with map, Nevada County	.25	.08
Register of Mines, with map, Placer County	.25	.08
Register of Mines, with map, Shasta County	.25	.08
Register of Mines, with map, El Dorado County	.25	.08
Register of Mines, with map, Inyo County	.25	.08
Register of Mines, with map, San Bernardino Co	.25	.08

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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