



3 * ROUTES * 3

TO AND FROM

ALL EASTERN CITIES.

**COMPARATIVE
CLIMATIC MAP
— OF —
CALIFORNIA.**

"SUNSET ROUTE"

VIA NEW ORLEANS,

"SHASTA ROUTE"

VIA PORTLAND,

"OGDEN ROUTE"

DINING-CAR LINE.

THROUGH TRAINS OVER ALL ROUTES.

J. C. STUBBS,
Third Vice-President.

RICH'D GRAY,
Gen. Traffic Manager.

T. H. GOODMAN,
Gen. Passenger Agent.

R. A. DONALDSON,
Asst. Gen. Pass. Agent.

(50.50)

SAN FRANCISCO, CAL.

YOSEMITE, SEQUOIA AND GENERAL GRANT NATIONAL PARKS.

LOCALITIES IN THE OLD WORLD

Corresponding in Temperature with Points in California,

(68° to 72°) INDICATED ON THE MAP IN BROWN.

| LOCALITY. | Mean Annual Temperature. | LATITUDE. |
|----------------------------------|--------------------------|-----------|
| TUNIS, Northern Africa | 68° | 37° |
| CANTON, China | 69° | 23° |
| LAS PALMAS, Canaries. | 70° | 28° |
| SAN CROIX, of Teneriffe. | 71° | 28° |
| CAIRO, Egypt. | 71° | 30° |
| MACAO, China. | 72° | 22° |

The territory represented in brown extends from Yuma to San Gorgonio along the line of the Southern Pacific Railway and includes the larger portion of the South-eastern part of the State.

The mean Summer temperature of this region is from 80° to 88°, and the mean Winter temperature 55° to 60°.

LOCALITIES IN THE OLD WORLD

Corresponding in Temperature with Points in California,

(60° to 68°) INDICATED ON THE MAP IN PINK.

| LOCALITY. | Mean Annual Temperature. | LATITUDE. |
|--|--------------------------|-----------|
| NICE, South-eastern France | 60° | 43° |
| NAPLES, South-western Italy. | 61° | 40° |
| LISBON, Portugal. | 61° | 38° |
| BARCELONA, North-eastern Spain | 63° | 41° |
| ALGIERS, Northern Africa | 64° | 36° |
| GIBRALTAR, Southern Spain. | 64° | 36° |
| SMYRNA, Western Asia Minor. | 65° | 38° |
| MESSINA, Sicily. | 66° | 38° |
| CALCUTTA, Eastern India | 68° | 22° |

The territory represented in pink (60° to 68°) extends on the coast from San Diego to San Pedro at an average width of twenty-five miles, narrowing at the latter point to a few miles and extending north to Point Conception, also the Valleys of the Sacramento and San Joaquin jointly from Sumner (latitude 35° 24') to Redding (latitude 40° 37'), varying from forty to fifty miles in width and four hundred and fifty miles in length.

The mean Summer temperature of this region is from 68° to 72°, the mean Winter temperature from 45° to 55°.

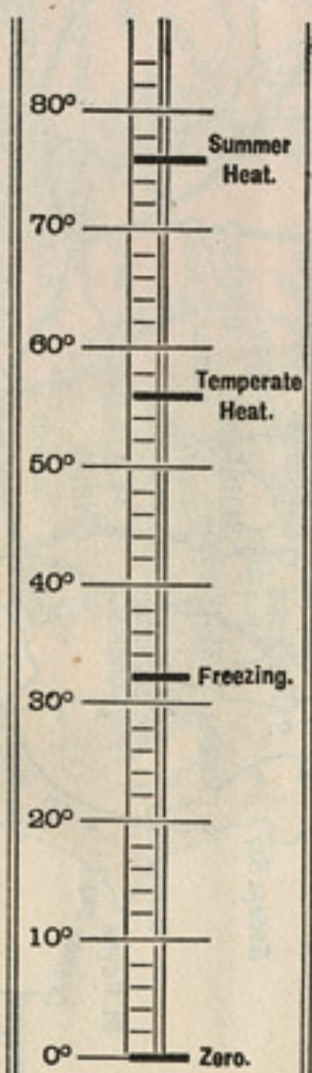
THE GEYSERS, BYRON HOT SPRINGS AND NAPA SODA SPRINGS.

LOCALITIES IN THE OLD WORLD

Corresponding in Temperature with Points
in California,

(52° TO 60°) INDICATED ON THE MAP IN YELLOW.

| LOCALITY. | Mean Annual Temperature. | LATITUDE. |
|--|--------------------------|-----------|
| TURIN, Northern Italy. | 53° | 45° |
| MILAN, Northern Italy. | 54° | 45° |
| TOULOUSE, Southern France. | 55° | 43° |
| VENICE, North-eastern Italy. | 57° | 45° |
| CONSTANTINOPLE, Turkey. | 57° | 41° |
| MARSEILLES, South-east France. | 57° | 43° |
| BOLOGNA, Northern Italy. | 57° | 44° |
| MADRID, Central Spain. | 57° | 40° |
| MENTONE, South-eastern France. | 57° | 43° |
| TOULON, Southern France. | 59° | 43° |
| FLORENCE, Northern Italy. | 59° | 43° |
| ROME, Western Italy. | 59° | 41° |



The territory represented in yellow (52° to 60°) extends in a narrow strip along the coast from near Point Conception (latitude 34°) to the Oregon line (latitude 42°). From Point Conception in a southerly direction this belt leaves the coast and trends in a south-easterly direction until near Tehachapi, where it divides, one branch running south to State Line, the other running north-east, diminishing at State Line in latitude 37°. This region is also represented along the foothills bordering the great valleys of the State, particularly the Sacramento and San Joaquin.

The mean Summer temperature of this territory is from 56° to 68°, and embraces a large number of the health resorts of the State, including nearly all the hot spring regions. Mean Winter temperature, 40° to 52°.

LOCALITIES IN THE OLD WORLD

Corresponding in Temperature with Points
in California,

(44° TO 52°) INDICATED ON THE MAP IN GREEN.

| LOCALITY. | Mean Annual Temperature. | LATITUDE. |
|--------------------------------------|-----------------------------|-----------|
| CARLSTADT, South-western Sweden . | 44° | 59° |
| DOVER, South-eastern England . . . | 45° | 43° |
| DANTZIG, North-eastern Prussia . . . | 46° | 54° |
| STROMNESS, Orkney Isles | 46° | 58° |
| BRESLAU, South-eastern Prussia . . . | 46° | 51° |
| COPENHAGEN, Denmark | 46° | 55° |
| DRESDEN, Austria | 46° | 51° |
| EDINBURGH, South-eastern Scotland. | 47° | 55° |
| HAMBURG, Northern Germany | 47° | 53° |
| DUBLIN, Ireland | 49° | 53° |
| MUNICH, Bavaria | 49° | 48° |
| PRAGUE, Bohemia | 49° | 50° |
| LEYDEN, Holland | 50° | 52° |
| GENEVA, Switzerland | 50° | 46° |
| FRANKFORT-ON-MAIN, Germany . . . | 50° | 50° |

The territory represented in green (44° to 52°) includes the higher coast ranges and the lower Sierras, the atmosphere of which is dry, pure and invigorating.

The mean Summer temperature is from 50° to 62°.

A COMPARATIVE TEMPERATURE TABLE

— OF —

Points in California and Points in a Corresponding
Latitude on the Atlantic Coast.

| Mean of Year. | Mean of Winter. | Mean of Summer | Latitude | POINTS IN CALIFORNIA. | POINTS ON ATLANTIC COAST. | Latitude | Mean of Summer | Mean of Winter. | Mean of Year. |
|------------------|--------------------|-------------------|----------|--------------------------|---------------------------------|----------|-------------------|--------------------|------------------|
| | | | 42° | Yreka. | Boston..... | 42° | 69° | 28° | 48° |
| 63° | 45° | 88° | 41° | Redding. | New York... | 41° | 71° | 31° | 51° |
| 64° | 48° | 83° | 40° | Chico. | Philadelph'a | 40° | 72° | 34° | 52° |
| 60° | 49° | 74° | 39° | Sacramento. | Baltimore... | 39° | 73° | 33° | 53° |
| 56° | 51° | 60° | 38° | San Fran. | Washington | 38° | 76° | 36° | 56° |
| 57° | 52° | 64° | 37° | Monterey. | Richmond... | 37° | 75° | 37° | 56° |
| 63° | 50° | 85° | 36° | Tulare. | Norfolk..... | 36° | 74° | 36° | 54° |
| 61° | 53° | 68° | 35° | Santa Barb'a | Raleigh..... | 35° | 76° | 42° | 60° |
| 65° | 58° | 73° | 34° | Los Angeles | Atlanta..... | 34° | 80° | 48° | 64° |
| 61° | 54° | 68° | 32° | San Diego. | Savannah.... | 32° | 81° | 53° | 67° |

COMPARATIVE ANNUAL METEOROLOGY OF SAN FRANCISCO AND NEIGHBORHOOD,

FOR THE YEARS OF

1885, 1886, 1887, 1888, 1889 and 1890.

From Records Furnished by Lieut. Jno. P. Finley, in
Charge of the United States Signal Service,
San Francisco, Cal.

| TEMPERATURES. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
|-------------------------------------|-------|-------|-------|-------|-------|-------|
| Mean Temperature of the year... | 56.9 | 56.1 | 55.2 | 55.5 | 57.9 | 56.3 |
| Mean Temp. of warmest day.... | 69.5 | 74.4 | 76.0 | 70.5 | 78.0 | 78.0 |
| Mean Temp. of coldest day..... | 46.9 | 45.8 | 36.5 | 33.3 | 45.0 | 41.0 |
| Maximum Temp. for the year.... | 87.0 | 93.9 | 96.9 | 93.4 | 89.0 | 86.0 |
| Minimum Temp. for the year.... | 43.0 | 41.0 | 33.1 | 28.7 | 39.0 | 36.0 |
| Greatest daily variation of Tem.. | 27.0 | 35.0 | 39.0 | 36.0 | 35.0 | 29.0 |
| Least daily variation of Temp... | 4.0 | 4.0 | 5.0 | 3.0 | 4.0 | 3.0 |
| Greatest monthly range of Tem.. | 35.0 | 43.8 | 51.3 | 42.4 | 40.0 | 38.0 |
| Rainfall in inches for the year.... | 24.90 | 20.02 | 19.04 | 23.03 | 36.94 | 25.43 |
| No. of clear and fair days for yr.. | 273 | 299 | 292 | 272 | 285 | 294 |
| No. of cloudy days for year..... | 92 | 66 | 73 | 94 | 80 | 71 |
| SEASONS. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
| Mean Temperature of Spring..... | 57.1 | 56.9 | 56.1 | 57.5 | 59.2 | 57.9 |
| Mean Temperature of Summer.. | 59.9 | 59.4 | 57.3 | 58.6 | 61.3 | 60.5 |
| Mean Temperature of Autumn... | 56.8 | 55.1 | 56.6 | 55.7 | 57.2 | 57.1 |
| Mean Temperature of Winter ... | 53.9 | 53.1 | 51.0 | 50.5 | 53.5 | 49.7 |

The above table may be considered a fair average of the meteorological phenomena obtaining in the yellow territory along the coast (52° to 60°), with this exception, that in going north the rainfall increases while the temperature slightly decreases, and in going south the opposite is the case.

THE TERRITORY REPRESENTED IN WHITE

(30° to 44°),

embraces the high timber Sierras and a portion of the north Coast Range extending from near Clear Lake to Oregon.

The Climate of California.

(*Encyclopedia Britannica—Ninth Edition.*)

The climate of California presents many features of interest, differing considerably from those obtaining in the Eastern States and those of the Mississippi Valley, which have furnished a majority of immigrants to the Pacific Coast.

There can be no doubt that emigration to California has, especially within the past few years, been greatly stimulated by the desire of people at the East to escape the sudden changes, the intense heats of summer, and the bitter colds of winter, which characterize the climate of the whole country east of the Rocky Mountains.

The climate of California is very different in different parts of the State, according to distance from the ocean, situation with reference to the mountain ranges, and altitude above the sea-level. But there are certain peculiar features which obtain all over the State. In the first place, the division of the year into two seasons—a dry and a rainy one—is the most marked general characteristic of the Californian climate. But, as one goes farther north, the rains are found to begin earlier and last longer; while, on the other hand, the south-eastern corner of the State is almost rainless. Again, the climate of the Pacific Coast along the whole length is milder and more uniform than that of the States in a corresponding latitude east of the mountains. Thus, we have to go as far north as Sitka, in latitude 57° , to find the same mean yearly temperature as that of Halifax, N. S., in latitude $44^{\circ} 39'$. And in going south along the coast, we observe that the mean temperature of San Diego is six or seven degrees less than that of Charleston and Vicksburg, which are nearly in the same latitude as San Diego, and situated one on the Atlantic, the other on the Mississippi River. But in addition, we notice that the means of summer and winter are much nearer the mean of the year in California than in the East. Thus comparing Washington and San Francisco, we have:

| | Mean of Year. | Mean of Summer. | Mean of Winter. |
|-----------------------|------------------|--------------------|--------------------|
| SAN FRANCISCO . . . | 56. | 60. | 51. |
| * WASHINGTON. | 56.07 | 76.3 | 36.05 |

This condition of things is not so marked as we advance into the interior of California, but everywhere in the State the winters are comparatively mild and the heat of summer is much less disagreeable in its effects, because the air is exceedingly dry and the evaporation proportionately rapid. The climate of San Francisco is indeed wonderfully uniform, and the bracing cool air, which sweeps in from the ocean during the afternoons of the summer, is the very breath of life for those who are in vigorous health.

It adds very much to the pleasure of traveling in the high Sierras that the weather is almost all summer long delightful, mild and clear, and without rain, so that one of the great discomforts to which tourists are exposed in Switzerland and most other regions of pleasure-travel is here entirely unknown.

* See also comparative table between points in California and points in a corresponding latitude on the Atlantic Coast.

TABLE

— OF —

MAXIMUM, MINIMUM ^{and} MEAN
ANNUAL TEMPERATURE

WITH LATITUDE AND ALTITUDE

— OF —

POINTS OF INTEREST IN CALIFORNIA.

SAN JOSE, MT. HAMILTON, MONTEREY AND SANTA CRUZ.

| LOCATION. | LAT. | ALT. | AVER. MAX. | AVER. MIN. | MEAN. |
|---------------------------|-------|-------|---------------|---------------|-------|
| Anaheim | 33.51 | 133 | 92. | 50. | 67. |
| Auburn | 38.57 | 1,360 | 83. | 39. | 58. |
| Caliente | 35.17 | 1,290 | 83. | 45. | 64. |
| Calistoga | 38.38 | 363 | 86. | 36. | 59. |
| Chico | 39.44 | 193 | 88.42 | 46.08 | 65. |
| Colton | 34.02 | 965 | 89.42 | 41.66 | 62.08 |
| Colfax | 39.08 | 2,422 | 85.42 | 41.50 | 56.91 |
| Dunnigan | 38.51 | 69 | 90. | 45. | 63. |
| Fresno | 36.45 | 292 | 90.12 | 45. | 64.34 |
| Galt | 38.18 | 50 | 88. | 43. | 62. |
| Geysers | 38.49 | ... | ... | ... | ... |
| Gilroy | 36.59 | 193 | 87. | 38. | 58. |
| Indio | 33.46 | 20 | 100. | 50. | 73. |
| Keene | 35.12 | 2,705 | 81. | 32. | 54. |
| Livermore | 37.42 | 485 | 88. | 39. | 58. |
| Los Angeles | 34.03 | 293 | 89.67 | 51. | 64.75 |
| Martinez | 38.02 | 10 | 76. | 42. | 56. |
| Marysville | 39.10 | 66 | 88.17 | 42.75 | 63.58 |
| Merced | 37.20 | 171 | 89. | 41. | 63. |
| Mojave | 35.02 | 2,751 | 87. | 47. | 63. |
| Monterey | 36.37 | 5 | 78.50 | 42.83 | 57.40 |
| Napa | 38.21 | 20 | 87.58 | 37.50 | 59.19 |
| Oakland | 37.49 | 12 | 69.33 | 42.58 | 54.75 |
| Paso Robles | 35.38 | ... | ... | ... | 56. |
| Redding | 40.37 | 557 | 86.33 | 43.16 | 61.58 |
| Red Bluff | 39.08 | 308 | 90.50 | 45.67 | 64. |
| Reno | 39.31 | 4,497 | 72. | 32. | 49. |
| Salinas | 36.41 | 44 | 75. | 42. | 56. |
| Sacramento | 38.36 | 30 | 80.58 | 44.92 | 60.33 |
| San Diego | 32.45 | ... | 82.83 | 47.50 | 61. |
| Santa Barbara | 34.26 | 30 | 81. | 46.18 | 60. |
| San Mateo | 37.34 | 22 | 78. | 44. | 54. |
| San Luis Obispo | 35.18 | ... | ... | ... | 56.96 |
| San Francisco | 37.48 | ... | 76.25 | 42.33 | 55.25 |
| San Jose | 37.21 | 91 | 83.08 | 39.83 | 56.75 |
| Santa Cruz | 36.58 | 18 | 82.67 | 42.42 | 58.08 |
| Spadra | 34.03 | 705 | 93. | 45. | 64. |
| Stockton | 37.58 | 23 | 79.50 | 41.50 | 58. |
| Sumner | 35.24 | 415 | 89. | 43. | 64. |
| Summit | 39.20 | 7,017 | 58.17 | 21. | 40.66 |
| Tehachapi | 35.06 | 3,964 | 78. | 32. | 52. |
| Truckee | 39.20 | 5,819 | 68.83 | 21.25 | 43. |
| Tulare | 36.13 | 282 | 87. | 43. | 64. |
| Woodland | 38.41 | 63 | 86. | 49. | 61. |
| Yosemite Valley | 37.47 | ... | ... | ... | ... |
| Yuma | 32.44 | 140 | 93. | 58. | 74. |

Comparative • Climatic • Map

— OF —

CALIFORNIA.

This map has been compiled from the highest authorities obtainable, but it must be borne in mind by the reader that a chart of this size must of necessity be of a general character, as it would be confusing and altogether impossible to particularize the temperature of every place of interest in the State; and instances may be discovered where the colors designating the borders of one territory may have invaded those of another, but the great isothermal belts of California here represented may be relied upon as substantially correct.

The reader should also bear in mind that comparative charts of temperature can be so only in a certain measure, for between 90° in California and 90° in atmospheres of low humidity there exists a marked difference in favor of the former. It has been observed that the temperature at 100° in California brings much less discomfort than 90° in many of the Eastern States.

CALIFORNIA STATISTICS, 1890.

Second largest State in the Union; land surface, 153,600 square miles. Length, 770 miles; breadth, 330 miles.

Gold discovered January, 1848.

Ranks first State in value of gold product.

Total value of gold product since 1848, \$1,367,450,000.

Ranks third State as petroleum producer.

Value of mineral products in 1890, \$23,850,000.

Admitted to the Union, September 9, 1850.

Population in 1880, 864,694; in 1890, 1,205,391.

Ranked twenty-second in population in 1890.

Percentage of increase in population since 1880, 39.25; percentage of increase in voters, 55.75.

Ranked sixteenth in percentage of growth from 1880 to 1890.

California and San Francisco practically out of debt.

Legal interest, 7 per cent; no usury laws.

Statute of limitations—judgment, five years; notes, four years; open accounts, two years.

Largest per capita wealth of any State in the Union.

Deposits in savings banks, 1890, \$98,442,000; increase over 1888, \$11,430,000.

Deposits in commercial banks, 1890, \$42,321,000; increase over 1889, \$1,869,000.

Total deposits in all banks, 1890, \$171,229,531.

Assessed value of all property in 1880, \$666,183,320; 1890, \$1,060,390,296.

Value of manufactured products, 1880, \$116,218,000; 1890, \$165,000,000.

Public lands surveyed, June 30, 1890, 72,189,644 acres.

Public lands unsurveyed, June 30, 1890, 28,802,996 acres.

Land offices—Eureka, Los Angeles, Marysville, Sacramento, San Francisco, Shasta, Stockton, Susanville and Visalia.

Area arable land, 38,000,000 acres; cultivated, 2,500,000 acres; forests, 20,000,000 acres.

Area wine and raisin grape vineyards, 225,000 acres.

Capital invested in vineyards, \$80,000,000.

Wine product for 1890, 18,200,000 gallons; dried wine grapes, 9,000,000 pounds.

Only raisin-producing State in the Union.

Raisin output for 1890, 2,000,000 boxes, or 40,000,000 pounds.

Prune crop for 1890, 15,000,000 pounds.

Green fruits shipped east, 1890, 105,000,000 pounds; in 1880, 5,180,000 pounds.

Dried fruits shipped east, 1890, 66,318,000 pounds; in 1880, 590,000 pounds.

Oranges shipped east, 1889-90, 3,187 carloads; crop 1890-91, 4,000 carloads.

Value of cereal, hay and root crops, 1890, \$70,000,000.

Wheat crop, 1890, 27,000,000 centals; exports, 13,266,409 centals, valued at \$17,600,000.

Flour exported in 1890, 1,201,304 barrels, valued at \$4,899,000; in 1889, 1,096,933 barrels.

Bean crop, 1890, 1,000,000 centals.

Honey product for 1890, 60,000,000 pounds.

Barley produced annually, 16,000,000 pounds.

Hop product, annual average, five years, 42,000,000 pounds.

The only State in which the olive thrives.

Leading producer of almonds, walnuts, etc.

Cotton culture successfully attempted.

Beet sugar successfully made during many years.

Number of horses, 1889, 289,626; value, \$18,534,948.

Number of mules, 1889, 36,284; value, \$3,035,912.

Number of cows, 1889, 243,469; value, \$8,082,040.

Number of oxen and other cattle, 1889, 659,302; value, \$13,607,595.

Number of sheep, 1889, 6,069,698; value, \$10,728,192.

Number of swine, 1889, 1,017,322; value, \$2,841,409.

Value of livestock of all kinds, 1889, \$57,830,096.

Public school expenditures, 1890, \$5,119,096; increase over 1889, \$1,057,779.

Number of children attending school, 1890, 198,960.

Public schools and universities of State own bonds to value of \$3,268,350.

Total value of public school property, \$13,624,143; increase since 1888, \$3,060,362.

San Francisco, third largest port of entry in the United States.

Clearing-house transactions for 1890 amounted to \$862,600,000, against \$843,400,000 for 1889.

SAN JOSE, MT. HAMILTON, MONTEREY AND SANTA CRUZ.

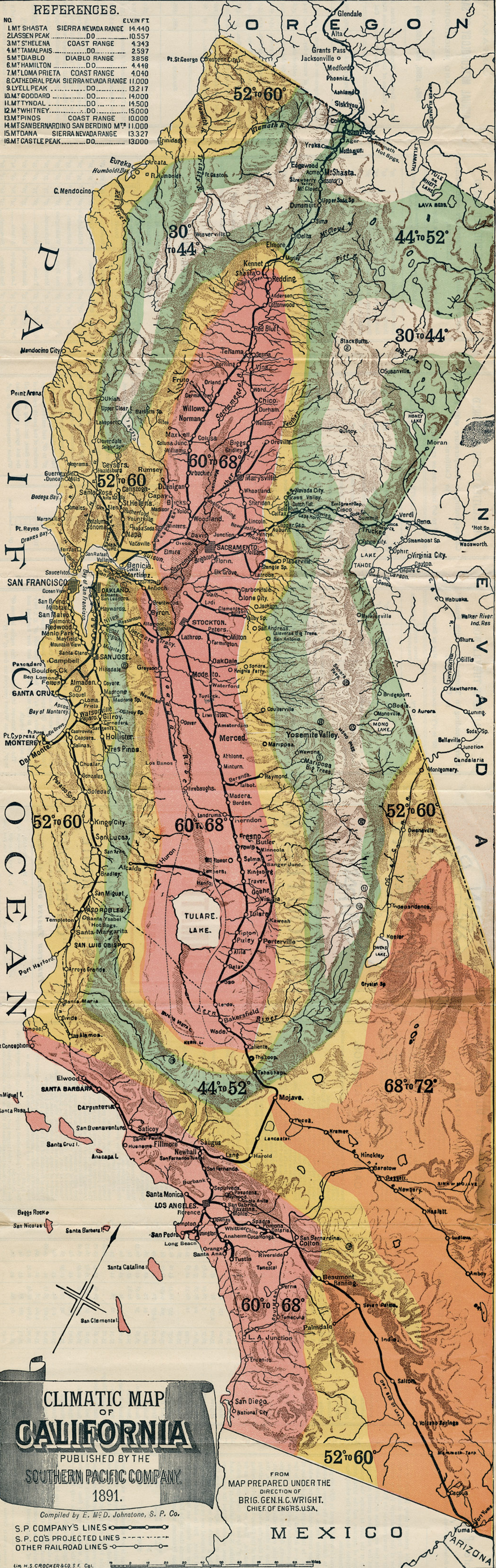
SANTA MONICA, SANTA BARBARA AND SANTA YSABEL.

SOUTHERN PACIFIC COMPANY.

BETWEEN YUMA (S. E. CORNER OF THE STATE) AND CRESCENT CITY (N. W. CORNER) AIR LINE, 828 MILES.
BETWEEN YUMA (S. E. CORNER OF THE STATE) AND BOUNDARY LINE OF OREGON,
VIA ALL-RAIL ROUTE THROUGH LOS ANGELES, SACRAMENTO, MARYSVILLE AND SHASTA, 1008 MILES.

REFERENCES.

| NO. | | ELV. IN FT. |
|-----|---------------------------------------|-------------|
| 1. | MT. SHASTA SIERRA NEVADA RANGE | 14,440 |
| 2. | CLASSEN PEAK DO | 10,557 |
| 3. | MT. STELENA COAST RANGE | 4,343 |
| 4. | MT. TAMALPAIS DO | 2,597 |
| 5. | MT. DIABLO DIABLO RANGE | 3,856 |
| 6. | MT. HAMILTON DO | 4,448 |
| 7. | MT. LOMA PRIETA COAST RANGE | 4,040 |
| 8. | CATHEDRAL PEAK SIERRA NEVADA RANGE | 11,000 |
| 9. | LYELL PEAK DO | 13,217 |
| 10. | MT. GODDARD DO | 14,000 |
| 11. | MT. TYNDAL DO | 15,500 |
| 12. | MT. WHITNEY DO | 15,000 |
| 13. | MT. PINOS COAST RANGE | 10,000 |
| 14. | MT. SAN BERNARDINO SAN BERNARDINO MTS | 11,000 |
| 15. | MT. DANA SIERRA NEVADA RANGE | 13,327 |
| 16. | MT. CASTLE PEAK DO | 13,000 |



CLIMATIC MAP OF CALIFORNIA

PUBLISHED BY THE
SOUTHERN PACIFIC COMPANY.
1891.

Compiled by E. M. D. Johnstone, S. P. Co.

S. P. COMPANY'S LINES
S. P. CO'S PROJECTED LINES
OTHER RAILROAD LINES

Lim. H. S. CROCHER & CO., S. F. Cal.

FROM
MAP PREPARED UNDER THE
DIRECTION OF
BRIG. GEN. H. C. WRIGHT.
CHIEF OF ENGRS. U.S.A.

MEXICO

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MEAN ANNUAL TEMPERATURE.

| BROWN | PINK | YELLOW | GREEN | WHITE |
|------------|------------|------------|------------|------------|
| 68° to 72° | 60° to 68° | 52° to 60° | 44° to 52° | 30° to 44° |