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rectly south, emptying into Suisun Bay, thence through the bays of San Pablo, San Francisco and the Golden Gate to the ocean. The total length is four hundred and sixty-five miles, and is navigable for three hundred and ten miles—to Red Bluff—at all seasons of the year. The tide rises in it to Sacramento City, seventy miles above its mouth, and to that point it is navigable for vessels drawing seven feet of water. The towns of Rio Vista, Sacramento, Knights Landing, Colusa, Princeton, Tehama and Red Bluff are on

bundred and ten miles—to Red Bluff—at all seasons of the year. The tide rises in it to Sacramento City, seventy miles above its mouth, and to that point it is navigable for vessels drawing seven feat of water. The towns of Rio Vista, Sacramento, Knights Landing, Colusa, Princeton, Tohama and Red Bluff are on its banks.

It is a selective, rising in the southern portion of the Sierra, and Rowing north, drains the bear of the tide of the second of the southern portion of the Sierra, and Rowing north, drains the bear of the total length is two hundred and seventy-five miles, by water, from San Francisco. The water of these rives was once clear and sparkling, but the washings of the gold placers have discolored it and filled the beds with gravel and sediment from the mines.

Pitt River is the principal tributary of the upper Sacramento, being larger than the stream bearing the name. One of its branches, Fall River, rises in Mount Shasta and flows eastward; other branches have their sources in the great northern plateau of the Sierra, and after a course of near two hundred their sources in the great northern plateau of the Sierra, and after a course of near two hundred in valleys and a region of superb forests. These resources are receiving increased attention since the subjugation of hostile Indians who disputed their development, and this long neglected section is advancing in importance.

MeCloud River bears the happy distinction of being one of the clearest, prottiest, and most romantic of the many grand caseades, and sparkling through rocky endous and leafy vales for a course of some eighty or ninety miles to the south, it empties into Pitt River, a few miles above its junction with the Sacramento. This is a lavorite fishing stream, and has been selected by the U. S. Commissioners supering the search of the supering the search of the principal of these is the North Fork, which rives on the largest tributary of the Sacramento. The principal of these is the North Fork, which rives on the southern shows southwestw

The southern portion of the great valley of California embraces Tulare, Buena Vista, Kern and other lakes, which receive Kings, Kaweah, White and Kern rivers, all large streams, having their sources among the lofty peaks of the most elevated portion of the Sierra Nevada.

East of the range and north of the streams proviously mentioned, and partly within the State, are Walker, Carson, Truckee and Susan rivers, with their numerous branches flowing eastward to lakes in the great basin. These, before reaching the valley, are strong and beautiful streams, affording water-power or for irrigating the bordering land. The first two empty into large lakes of the same name, the Truckee into Pyramid Lake, all in the State of Nevada, and the Susan into Honey Lake.

The many mountains of California naturally have their corresponding valleys, and these are, in greater part, as fertile and levely as the others are towering and grand. The massive chains and lefty peaks inspire the beholder with awe, but the quiet, sun-bathed valleys give impressions of peace, prosperity and comfort. The system may be regarded as peculiar to California, a more marked distinction being made between mountain and valley in this than in any other State of the Union. Precipitous acclivities are on the one hand, and broad plains or expanded meadows on the other. Everywhere the soil contains elements of great fertility, and with the aid of abundant water vegetation is prolific. Soils of every character are found; drifting sands; arenaceous leam; reddish gravel and the deep clayey adobe. All are productive under irrigation, but under the dependence of rains, great sections pass as sterile deserts when the uncertain season or the capricious elements fail to supply the fructifying element. When, therefore, the area of the valleys is considered and the amount of arable land contained in them is estimated, the present condition is disregarded, for that which is now apparently a barren desort may, under different circumstances, or at another season, become a luxuriant garden.

There are two classes of valleys—the small park-like basins in the mountains, and the lower valleys.

There are two classes of valleys—the small park-like basins in the mountains, and the lower valleys near the sea or bordering on the great rivers. The great valley of the Colorado, in which may be placed the larger portion of San Diego and San Bernardino counties, is an inhespitable desert, and although it may be possessed of minerals and a soil rich in the eloments of fertility, its climate renders it valueless for present purposes. Within this region are several distinctive valleys, as the Mohave Valley, bordering the Colorado, the Coahuilla and New River Valley, the Valley of the Mohave, on the river of that name, and