a resource of the precious metal which will take generations to exhaust, while adding to the wealth of the country.

The river beds still constitute an important mining resource, having never been exhausted, and their treasures replenished by the waste from the washing of the mines upon their banks. Lower rates of wages and subsistence, with a comprehensive system, will yet enable the extraction of a vast amount of gold from these deposits.

The most lasting of the mineral resources of California is generally conceded to be the quartz veins. From these, it cannot be doubted, came the gold which enriched the placers with a wealth never before known. The gold-bearing veins are found throughout the western slope of the Sierra Novada, and in the mountains of the northwest coast. The number it would be difficult to estimate, and new discoveries are continually adding to the list. Comparatively few of the many thousands known are developed, and the majority of those worked upon are so indifferently managed that their great value is scarcely known. It has been the misfortune of the State that the most of the mining enterprises of this department have been undertaken by men limited in both means and experience. In some instances they have risen with the occasion, and by skill and energy developed properties of extraordinary value. Small and incomplete mills, with rude methods of saving the gold, incurring expense and loss, have generally been established to aid in the development of a mine, and unless the quartz was exceedingly rich, failure was the natural consequence. A better understanding of the subject is now beginning to prevail; greater confidence is felt in mining interests than formerly; men of wealth and business capacity are turning their attention to it, and we may say that a new era in quartz mining appears to be opening in California. It is well to hope that such is the case. The resource is grand, illimitable, inexhaustible. The gold-bearing veins are in countless numbers, and are found from the extreme

on. The bullion product of Nevada in 1873 was \$35,224,507, and the grand total for all the mining States and Territories west of the Mississippi in the same year was \$72,256,603.

Silver AND Leadh—Let us branch off from the royal metal and notice the product of the princely silver. The mines of California are not confined to the western slope of the Sierra, nor is gold the only valuable metal which miners seek. Crossing the mountain—the great transve-bed of the world—the metal changes from gold to silver. Eastward, in Nevada, the silver is generally very pure or mixed with gold, but the most prominent silver mines of California are of argentiferous galena ores, as are many in Nevada. Such ores are beneficiated by smelting in stock furnaces, while finer ores are reduced by stamps and amalgamation. The product is a rich lead, usually called bullion, bearing from \$200 to \$300 to \$300

In the northwestern part of Inyo County, or perhaps in the eastern part of Tulare, is the Mineral King district, situated high up among the lofty peaks of the Sierra, where a ledge of silver-bearing quartz of great size and supposed richness exists. These mines, lying between Independence, in Inyo County, and Visalia, in Tulare County, are of recent discovery and but slightly developed.

Mono and Alpine Counties contain a vast number of silver-bearing veins, many of which have been developed to a very fair extent, proving of considerable value. Several mills and reduction works have been erected and much silver extracted, but through extravagance and ignorance of management brilliant

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