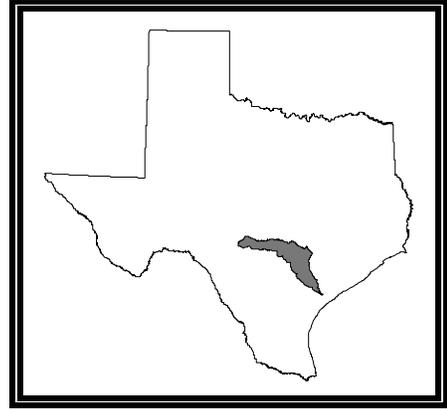


# Basin 18

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## Guadalupe River



## **Guadalupe River Basin Narrative Summary**

The headwaters of the Guadalupe River form in southwestern Kerr County. The river flows southeasterly to Guadalupe Bay, part of the San Antonio Bay System. The Blanco and San Marcos Rivers are major tributaries to the Guadalupe. The total basin drainage area is 6,070 square miles. The Guadalupe River Basin has been divided into 17 segments for monitoring purposes. The most recent standards revision provides for the creation of segment 1802, Guadalupe River Below San Antonio River from existing segment 1803, Guadalupe River Below San Marcos River to account for different hydrological conditions and dissolved minerals (total dissolved solids, chloride, and sulfate) gradients and different ambient concentrations. One reservoir (Canyon Lake) covering 8,230 surface acres and 749 stream miles are routinely monitored.

Due to the excellent water quality and abundant spring flow from the Edwards Aquifer, the entire Guadalupe River and its tributaries are used extensively for contact recreation and play a major role in the basin's economy. There are 84 active surface water quality monitoring stations in the Guadalupe River Basin.

The contact recreation use is not supported in two classified segments, and one unclassified segment. Concerns exist for low dissolved oxygen concentrations in two unclassified segments, for contact recreation in two unclassified segments and for nutrients in three classified segments and three unclassified segments. Concerns also exist for excessive algal growth in one classified segment.