

KINGS RIVER SERVICE AREA
ANNUAL GROUNDWATER REPORT

FOR THE PERIOD COVERING
2006 – 2007

KINGS RIVER CONSERVATION DISTRICT
FRESNO, CALIFORNIA

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INTRODUCTION

The Kings River Conservation District (KRCD) is a political subdivision of the State of California and was formed by the California Legislature with the passage of the "Kings River Conservation Act" in 1951. The KRCD covers an area of approximately 1,240,000 acres in the central San Joaquin Valley which includes portions of Fresno, Kings, and Tulare Counties. The KRCD's boundaries encompass the entire service area of the Kings River, which is the primary source of surface water for the area. The KRCD's boundaries and the study area of this report are shown in figure 1.

The flow of water in the Kings River is variable from year to year. During "normal" (average "natural" flow at Pine Flat Dam assuming no interference by storage) and "dry" (when runoff is less than normal) years, the available surface supply does not meet the total water demand of the service area. When such a shortage of water exists, the deficiency is remedied by the pumping of groundwater which may result in a drop in the water table. During the years when runoff exceeds normal, commonly referred to as "wet" years, the water table may rise due a decrease in pumping and an increase in natural recharge. The conversion to high frequency irrigation systems has created a condition where some wells are in near constant (daily) operation during the irrigation season.

The KRCD initiated a groundwater study in 1987 to monitor the trends within the service area. This report is a continuation in the series of groundwater reports which presents groundwater data and analysis pertinent to the KRCD on an annual basis. Prior to 1990, reports were produced semiannually, one for each spring and fall measurement period. Based on the nature of the available data, reports will be presented using the Spring observations for each year.