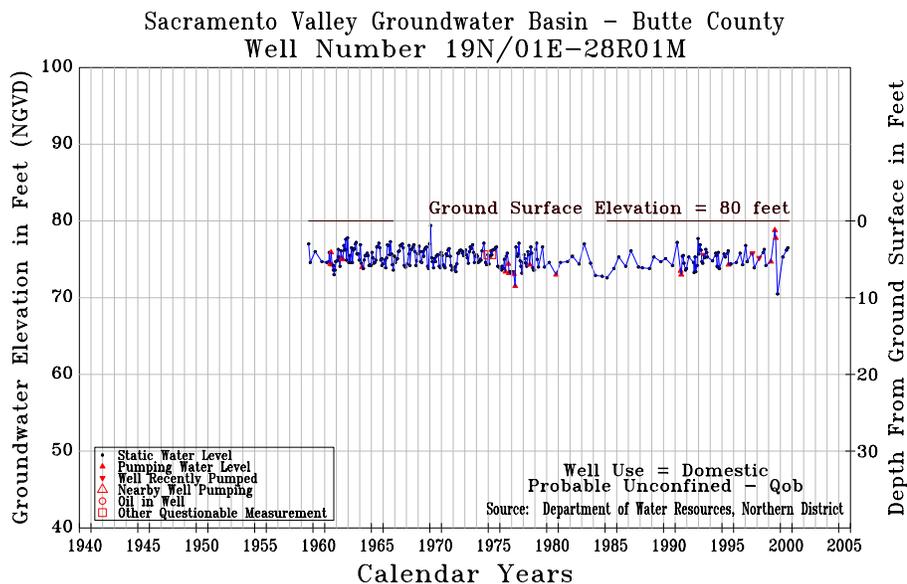


Richvale Sub-Area (Well Number 19N/01E-28R01M & 19N/01E-35B01M):

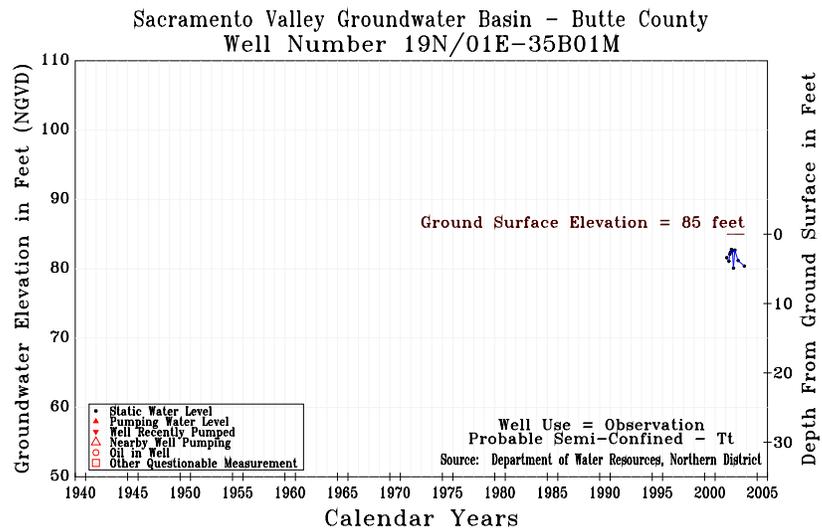
The figure below is a hydrograph for well 19N/01E-28R01M, located in the western portion of the Richvale Sub-area. The area surrounding this well is characterized as rural agricultural. Agricultural cultivation in this area consists of rice production supported by surface water in normal years and a mixed source in drought years. The well is an active domestic well constructed in the upper portion of the aquifer, with a groundwater level measurement record dating back to the late-1950s. Groundwater levels in this well were monitored on a monthly basis from 1959 to 1979, on a semi-annual basis (spring and fall) from 1979 to 1991 and on a monthly basis again from 1991 to about 1994. Since 1994, this well has been monitored four times a year during March, July, August and October.

The figure shows that the spring to summer fluctuation of groundwater levels in the unconfined portion of the aquifer system averages only 3 to 4 feet during years of normal precipitation and 4 to 5 feet during years of drought. Close examination of the spring to summer fluctuations indicates that the upper aquifer recharges during summer months due to flood irrigation for rice production. In areas of flood irrigation, it is important that domestic wells have an adequate annular seal in order to restrict potential contamination from surface sources and maintain a high quality source of domestic groundwater. Long-term comparison of spring-to-spring groundwater levels show almost no change in groundwater levels associated with either the 1976-77 and or the 1986-94 droughts. Further long-term analysis of spring-to-spring groundwater levels indicates very little change in groundwater levels since the late 1950s.



Hydrograph for Well 19N/01E-28R01M

Monitoring groundwater levels have been discontinued in this well since 2000. Well 19N/01E-35B01 was chosen to replacement this index well in the Richvale Sub-area. This is a new dedicated monitoring well that was installed by Butte County during 2001. This well is in the west central portion of the sub area east of the original index well. Measurements in this well represent groundwater conditions below 95 feet in the semi confined portion of the Upper Tuscan aquifer system.



Hydrograph for Well 19N/01E-35B01M

An evaluation of data from both index wells reveals that groundwater levels have changed very little since about 1960, and that groundwater in storage is not currently being depleted in this sub-area.