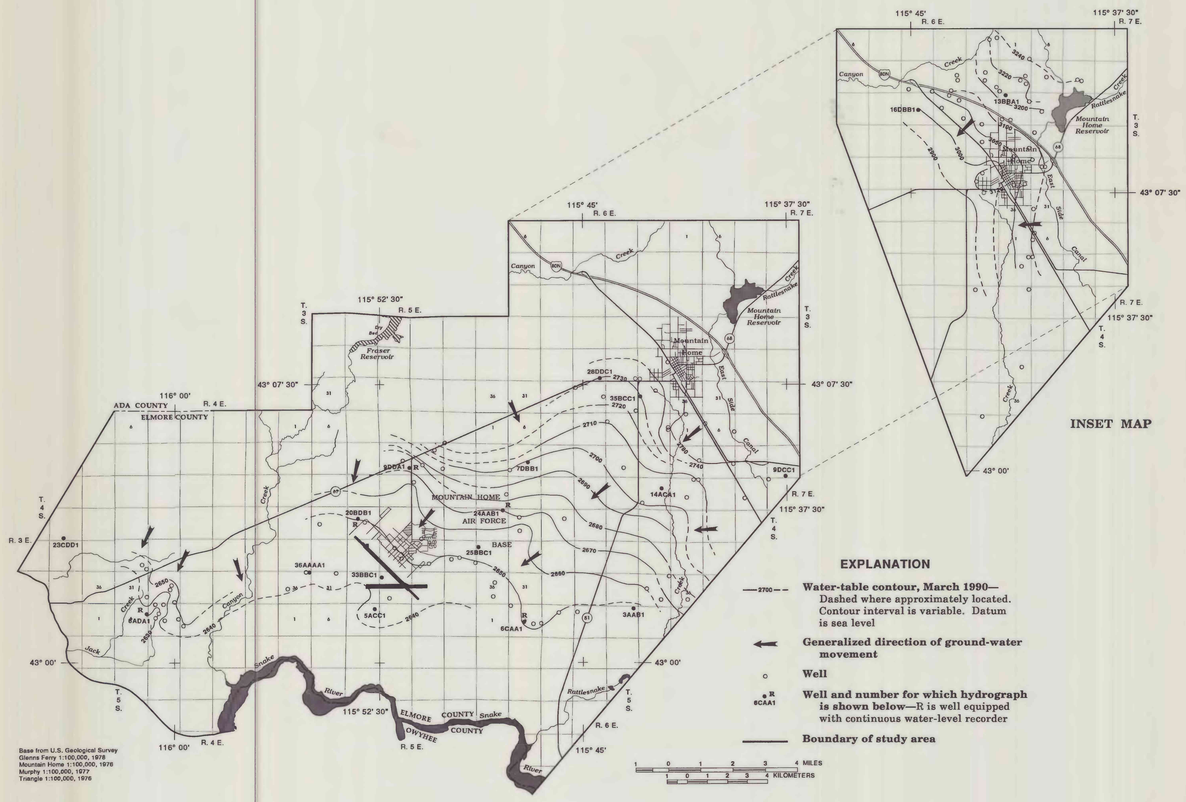


INSET MAP

EXPLANATION

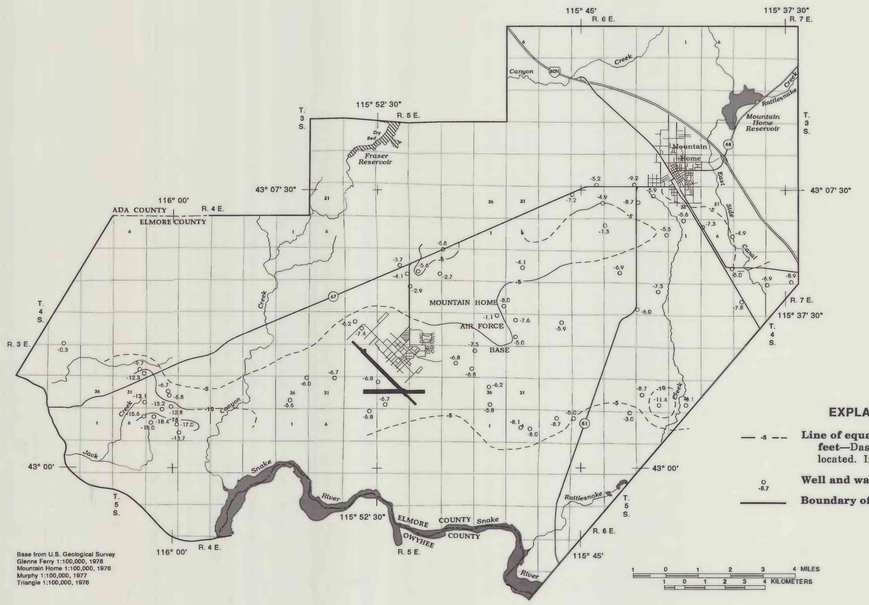
- **2700** — Water-table contour, March 1990—Dashed where approximately located. Contour interval is variable. Datum is sea level
- Generalized direction of ground-water movement
- Well
- R 5CAA1 — Well and number for which hydrograph is shown below—R is well equipped with continuous water-level recorder
- Boundary of study area

WATER-TABLE CONTOURS AND GENERALIZED DIRECTIONS OF GROUND-WATER MOVEMENT, MARCH 1990

Regional ground-water movement is generally southward and southwestward, approximately perpendicular to water-table contours. Irregularities in the general direction of movement, such as in sec. 5, T. 5 S., R. 4 E., are probably the result of large ground-water withdrawals.

CONTOURS ON PERCHED-WATER ZONES

Water-level contours shown at left indicate several perched-water zones. Gradients north of Mountain Home, near Mountain Home Reservoir, are about 20 ft/mi. However, near and northwest of Mountain Home, the gradient steepens markedly to about 50 ft/mi. The gradient then remains about the same as the ground water continues to move southwestward where it percolates to the regional ground-water system. A small perched-water zone also exists in Mountain Home (see contour 3,120 on inset map) where depths to water are generally less than 20 ft.

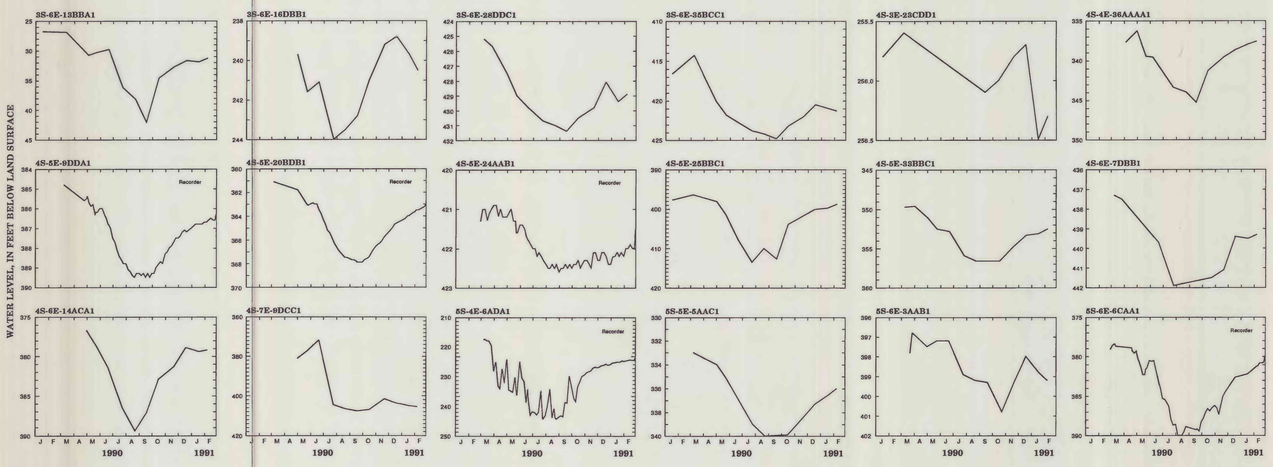


EXPLANATION

- -5 — Line of equal water-level change, in feet—Dashed where approximately located. Interval 5 feet
- -8.7 — Well and water-level change, in feet
- Boundary of study area

CHANGES IN GROUND-WATER LEVELS, MARCH TO OCTOBER 1990

The approximate seasonal decline in the regional water table from March 1990 to October 1990 is shown on the map above. Declines are greatest where irrigation wells are concentrated, such as in sec. 5, T. 5 S., R. 4 E.



SEASONAL CHANGES IN GROUND-WATER LEVELS

Seasonal changes in ground-water levels are shown in the hydrographs at left. Water-level declines accelerate in response to pumping at the start of the irrigation season. Declines continue through the irrigation season until pumping ceases, then water levels start to recover. Seasonal lows are typically in August or September.

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By
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