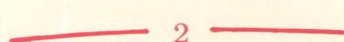
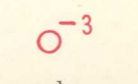
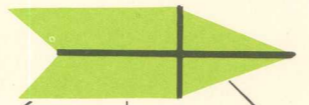





EXPLANATION

 Contour  
Showing net change in water level from the period before extensive pumping began until 1966. Contour interval 10 feet. Dashed where inferred.

 Selected well showing change in water level in areas where data are not adequate for contouring. Number indicates net change in feet. Plus sign indicates a rise in water level; minus sign indicates a decline.

EQUIVALENTS PER MILLION  
CATION 20 15 10 5 0 5 10 15 20 ANION

Sodium (Na)  
Calcium (Ca)  
Magnesium (Mg)  Chloride (Cl)  
Bicarbonate (HCO<sub>3</sub>)  
Sulfate (SO<sub>4</sub>)

Well in High Plains deposits  Well in alluvial deposits  Well in bedrock 

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Number of irrigation wells in a township (1965)

NET CHANGE IN WATER LEVEL, PATTERN DIAGRAMS OF WATER QUALITY,  
AND NUMBER OF IRRIGATION WELLS IN 1965