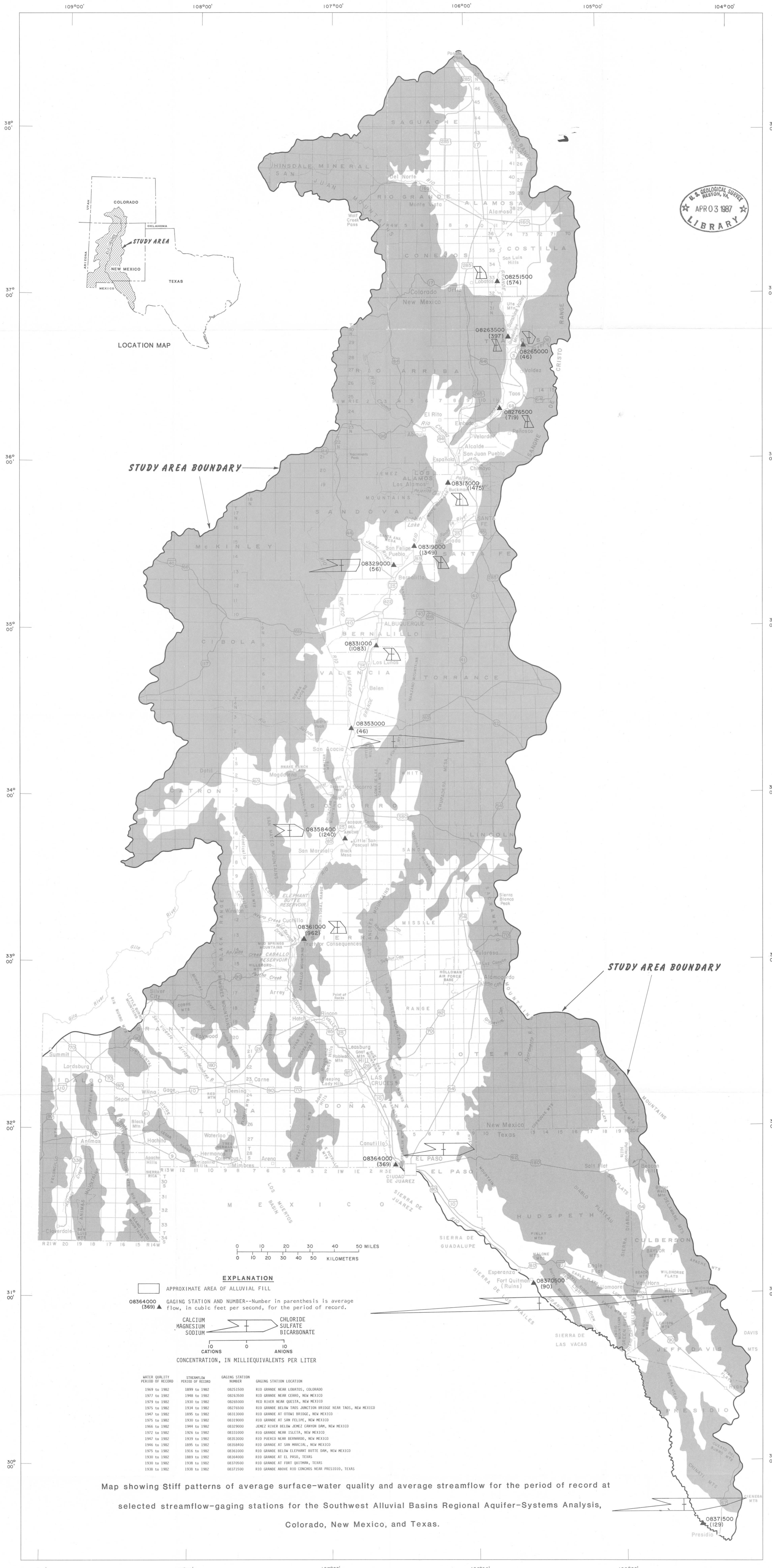
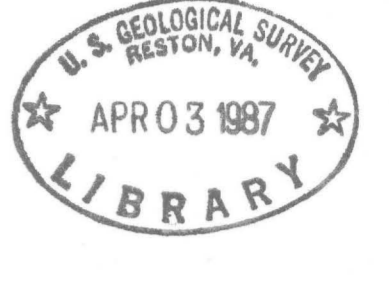


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STUDY AREA BOUNDARY

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EXPLANATION

- APPROXIMATE AREA OF ALLUVIAL FILL
  - ▲ GAGING STATION AND NUMBER--Number in parenthesis is average flow, in cubic feet per second, for the period of record.
  - ▲ CALCIUM CHLORIDE
  - ▲ MAGNESIUM SULFATE
  - ▲ SODIUM BICARBONATE
- 10 0 10  
 CATIONS ANIONS  
 CONCENTRATION, IN MILLIEQUIVALENTS PER LITER

| WATER QUALITY PERIOD OF RECORD | STREAMFLOW PERIOD OF RECORD | GAGING STATION NUMBER | GAGING STATION LOCATION                                     |
|--------------------------------|-----------------------------|-----------------------|---|
| 1969 to 1982                   | 1899 to 1982                | 08251500              | RIO GRANDE NEAR LOBATOS, COLORADO                           |
| 1977 to 1982                   | 1948 to 1982                | 08265000              | RIO GRANDE NEAR CERRO, NEW MEXICO                           |
| 1979 to 1982                   | 1930 to 1982                | 08265000              | RED RIVER NEAR QUESTA, NEW MEXICO                           |
| 1975 to 1982                   | 1934 to 1982                | 08276500              | RIO GRANDE BELOW TAOS JUNCTION BRIDGE NEAR TAOS, NEW MEXICO |
| 1947 to 1982                   | 1895 to 1982                | 08313000              | RIO GRANDE AT OTONE BRIDGE, NEW MEXICO                      |
| 1975 to 1982                   | 1930 to 1982                | 08319000              | RIO GRANDE AT SAN FELIPE, NEW MEXICO                        |
| 1966 to 1982                   | 1944 to 1982                | 08329000              | JINEZ RIVER BELOW JINEZ CANYON DAM, NEW MEXICO              |
| 1972 to 1982                   | 1926 to 1982                | 08331000              | RIO GRANDE NEAR ISLETA, NEW MEXICO                          |
| 1947 to 1982                   | 1939 to 1982                | 08353000              | RIO PUECO NEAR BERNARDO, NEW MEXICO                         |
| 1946 to 1982                   | 1895 to 1982                | 08358400              | RIO GRANDE AT SAN MARCIAL, NEW MEXICO                       |
| 1975 to 1982                   | 1916 to 1982                | 08361000              | RIO GRANDE BELOW ELEPHANT BUTTE DAM, NEW MEXICO             |
| 1930 to 1982                   | 1889 to 1982                | 08364000              | RIO GRANDE AT EL PAO, TEXAS                                 |
| 1930 to 1982                   | 1938 to 1982                | 08370500              | RIO GRANDE AT FORT QUITMAN, TEXAS                           |
| 1938 to 1982                   | 1938 to 1982                | 08371500              | RIO GRANDE ABOVE RIO CONCHOS NEAR PRESIDIO, TEXAS           |

Map showing Stiff patterns of average surface-water quality and average streamflow for the period of record at selected streamflow-gaging stations for the Southwest Alluvial Basins Regional Aquifer-Systems Analysis, Colorado, New Mexico, and Texas.