

EXPLANATION

Total dissolved solids
in mg/L or ppm

■ < 500
■ 500—1000
■ > 1000

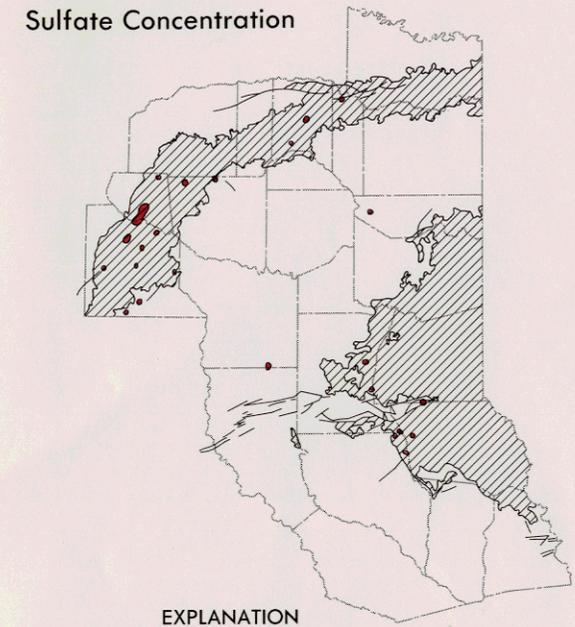
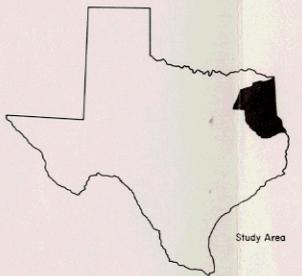
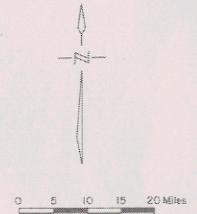
Wilcox Group outcrop

Fault

Note: Carrizo Sand water chemistry is mapped separately on Figure 9B for Van Zandt, Smith, Rusk, Cherokee, Nacogdoches, Angelina, and San Augustine Counties

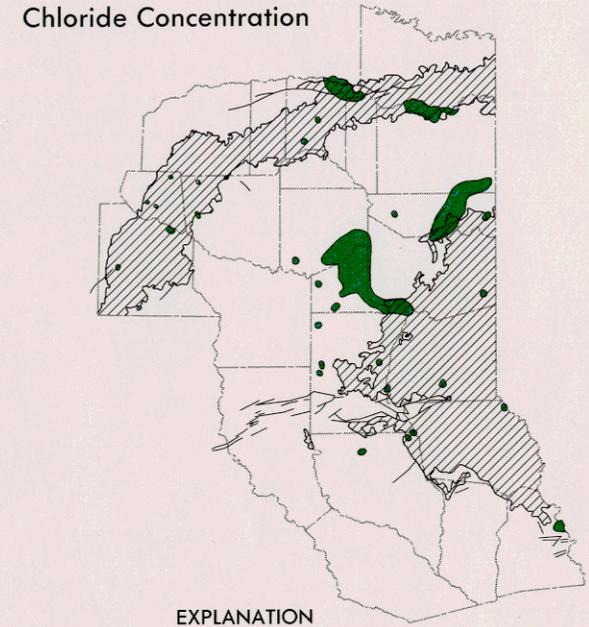
Outcrop geology from:
 Pieper, M. K., Hoenggi, W. T., and Wright, A. C., 1965;
 Pieper, M. K., Shelby, C. A., and Wright, A. C., 1966;
 Shelby, C. A., Pieper, M. K., and Wright, A. C., 1968; and
 Waechter, N. B., Lozo, F. E., Jr., and Barnes, V. E., 1972.

Sources of data:
 Anders, R. B., 1967; Baker, B. B., Dillard, J. W., Souders, V. L., and
 Peckham, R. C., 1963; Broom, M. E., 1968, 1969, and 1971;
 Broom, M. E., Alexander, W. H., Jr., and Myers, B. N., 1965;
 Dillard, J. W., 1963; Fogg, G. E., Kaiser, W. R., and
 Ambrose, M. L., in press; Sandeen, W. M., 1984;
 White, D. E., 1973 (a) and (b); William F. Guyton and Associates,
 1970 and 1972.



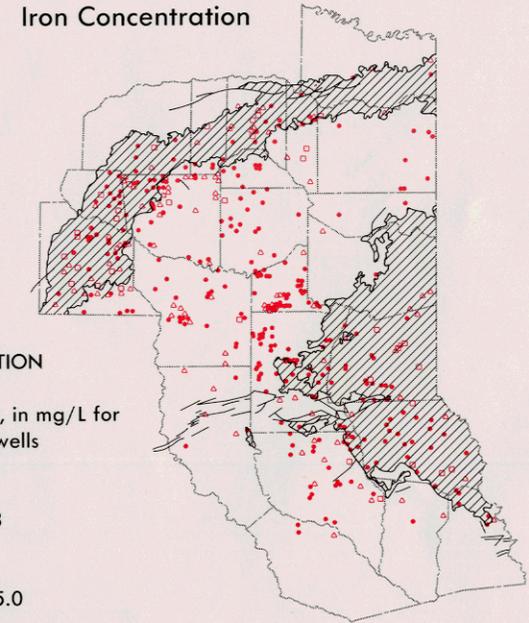
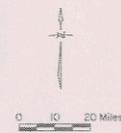
EXPLANATION

■ Areas that exceed the secondary
drinking water standard of
300 mg/L for Sulfate, in
areas of ≤ 1000 total dissolved solids



EXPLANATION

■ Areas that exceed the secondary
drinking water standard of
300 mg/L for Chloride, in
areas of ≤ 1000 total dissolved solids



EXPLANATION

Iron concentration, in mg/L for
selected wells

● ≤ 0.3
 ● 0.31—5.0
 ● > 5.0

Secondary drinking
water standard
is 0.3 mg/L

Figure 9D
Existing Ground-Water Quality in the
Carrizo-Wilcox Aquifer, Eastern Area
 (Based on Total Dissolved Solids Content of
 Ground Water From Wells Tapping the
 Wilcox Group and Carrizo-Wilcox
 Undifferentiated Portion of the Aquifer,
 With Sulfate, Chloride, and
 Iron Concentration Insets)