

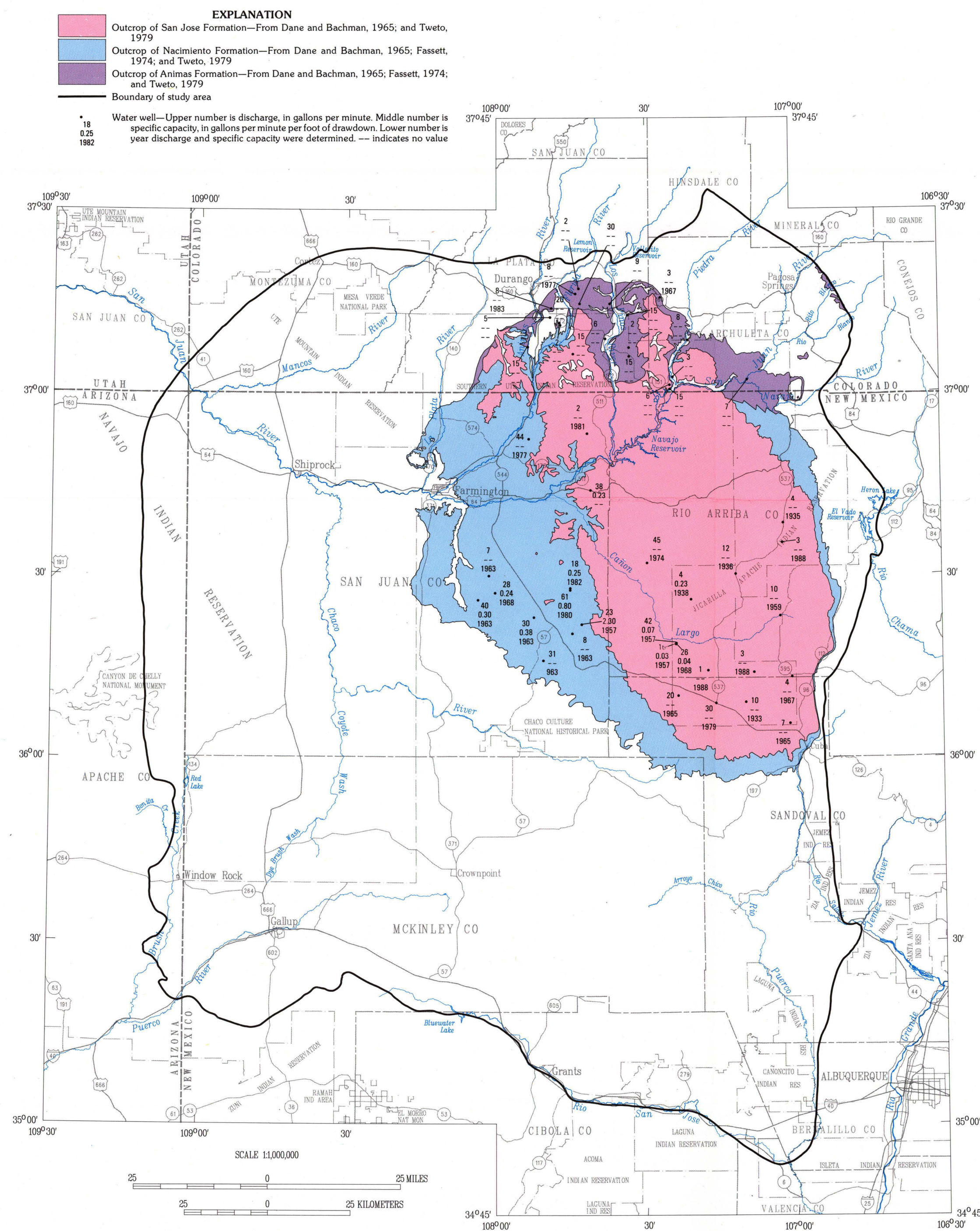


Figure 8. Discharge and specific capacity of selected water wells completed in the San Jose, Nacimiento, and Animas Formations.

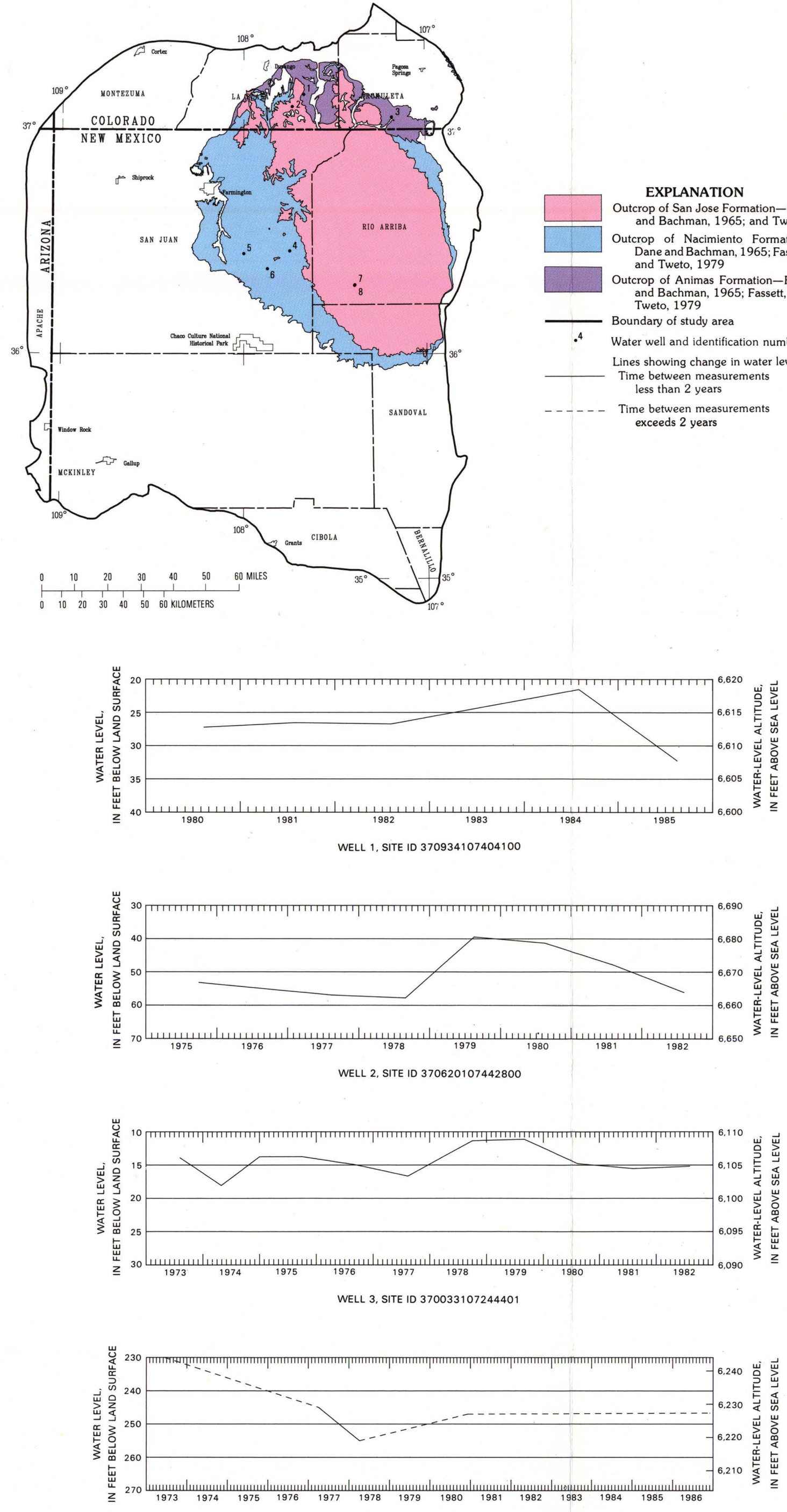


Figure 9. Water-level hydrographs for eight water wells completed in the San Jose, Nacimiento, and Animas Formations, 1957-89.

Table 1. Selected properties of and constituents in water from the San Jose, Nacimiento, and Animas Formations

[Dissolved constituents are in milligrams per liter]				
Property or constituent	Number of samples	Minimum	Maximum	Median
Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	220	201	12,700	934
pH (standard units)	207	4.6	9.8	7.8
Temperature (degrees Celsius)	159	9.5	23.0	13.0
Calcium	203	1.7	540	46
Magnesium	203	0.1	230	7.3
Sodium	186	1.6	2,200	140
Potassium	182	0.2	21	1.2
Alkalinity, total as calcium carbonate	202	21	1,750	262
Sulfate	204	2.3	4,300	100
Chloride	209	1.3	4,100	17
Fluoride	199	0.1	8.8	0.8
Dissolved solids, sum of constituents	151	114	6,800	543
Nitrate, as nitrogen	29	0.02	5.6	0.07
Selenium	73	0.001	13	0.02

Table 2. Selected primary drinking-water standards

[From U.S. Environmental Protection Agency, (1986a). Constituents are in milligrams per liter]	
Constituent	Standard
Fluoride	4
Nitrate (as nitrogen)	10
Selenium	0.01

Table 3. Selected secondary drinking-water standards

[From U.S. Environmental Protection Agency, (1986b). Constituents are in milligrams per liter]	
Property or constituent	Standard
pH (standard units)	6.5-8.5
Sulfate	250
Chloride	250
Fluoride	2
Dissolved solids	500

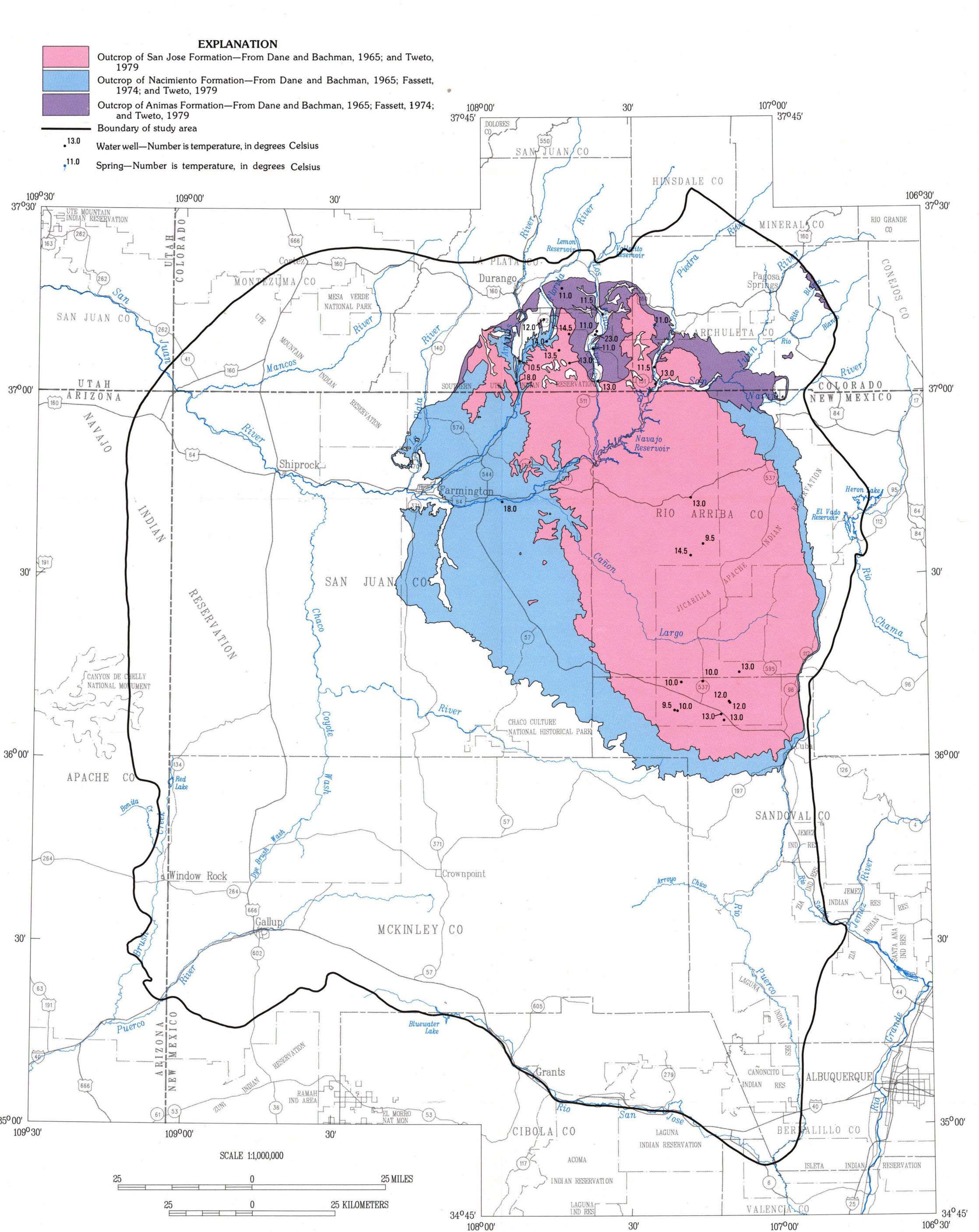


Figure 10. Temperature of water from selected water wells and one spring in the San Jose, Nacimiento, and Animas Formations.

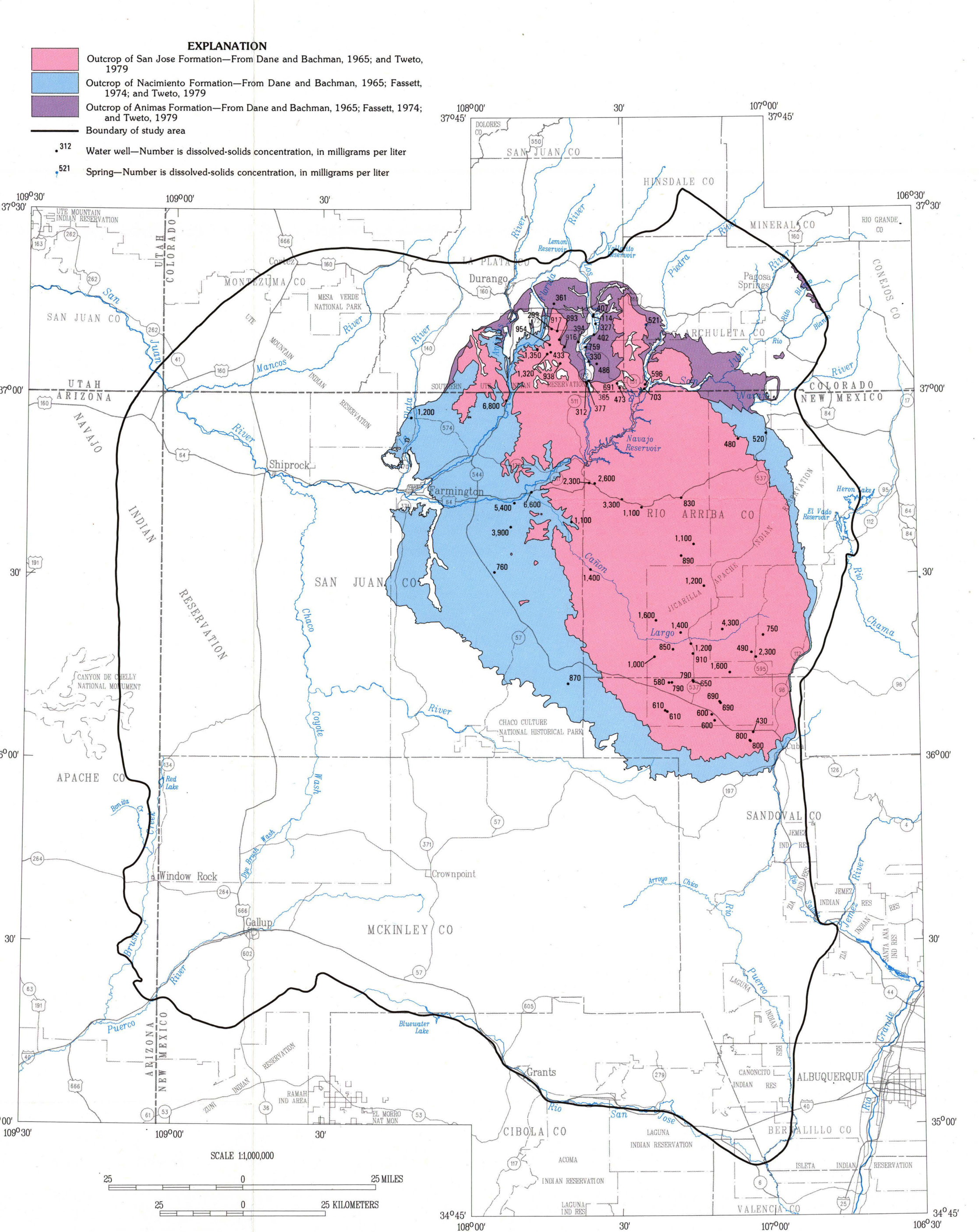


Figure 11. Concentration of dissolved solids in water from selected water wells and one spring in the San Jose, Nacimiento, and Animas Formations.

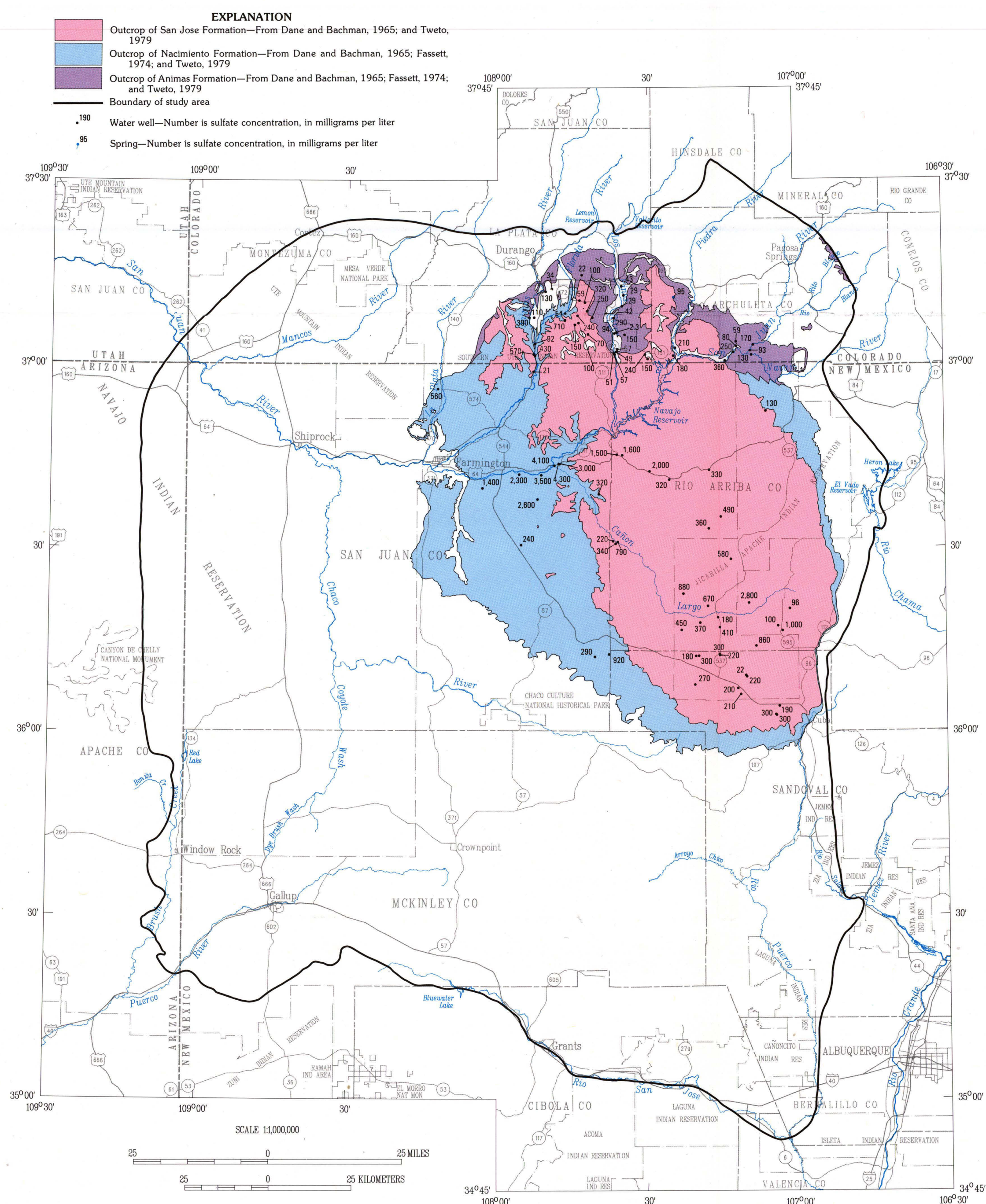


Figure 12. Concentration of sulfate in water from selected water wells and one spring in the San Jose, Nacimiento, and Animas Formations.

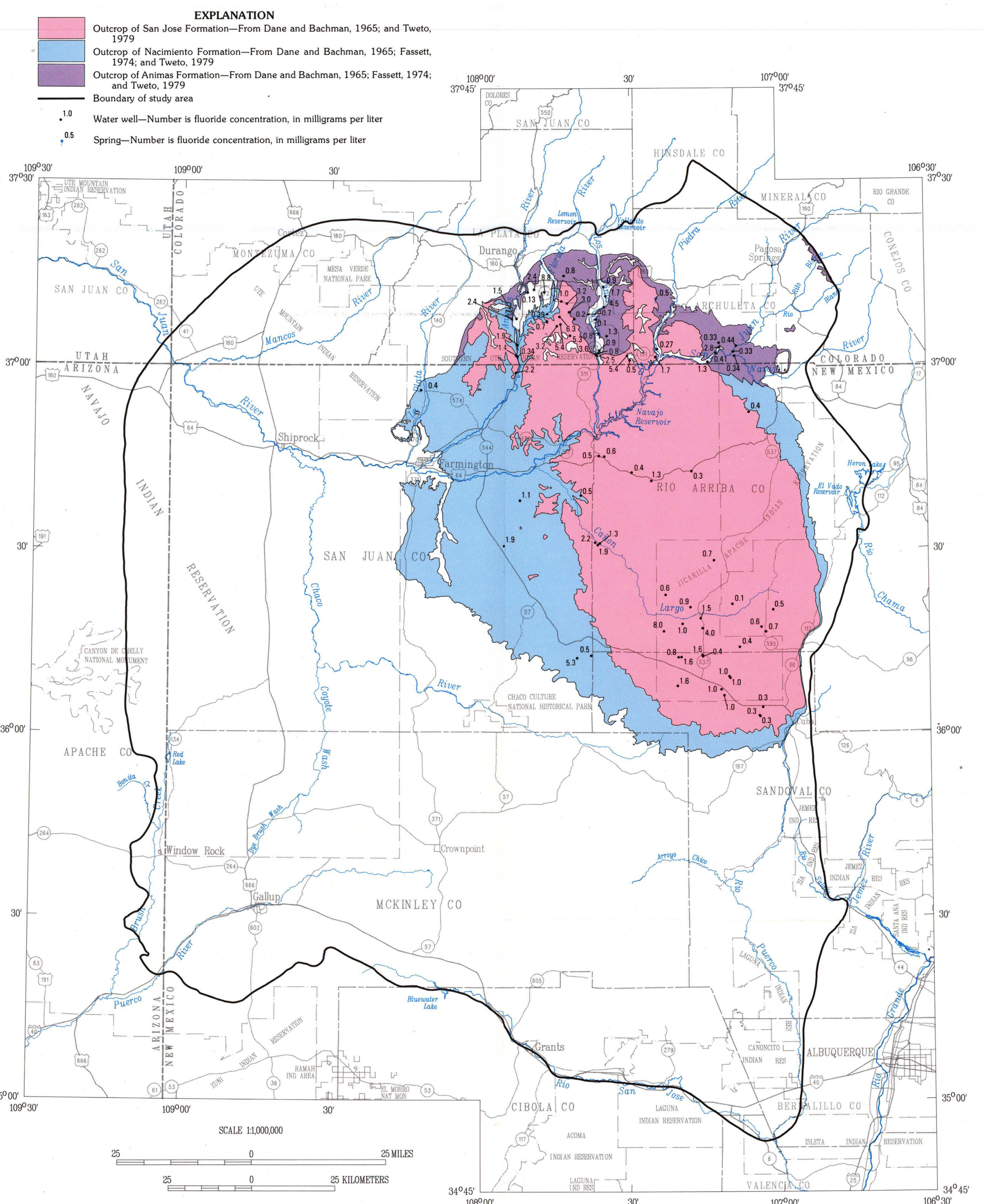


Figure 13. Concentration of fluoride in water from selected water wells and one spring in the San Jose, Nacimiento, and Animas Formations.

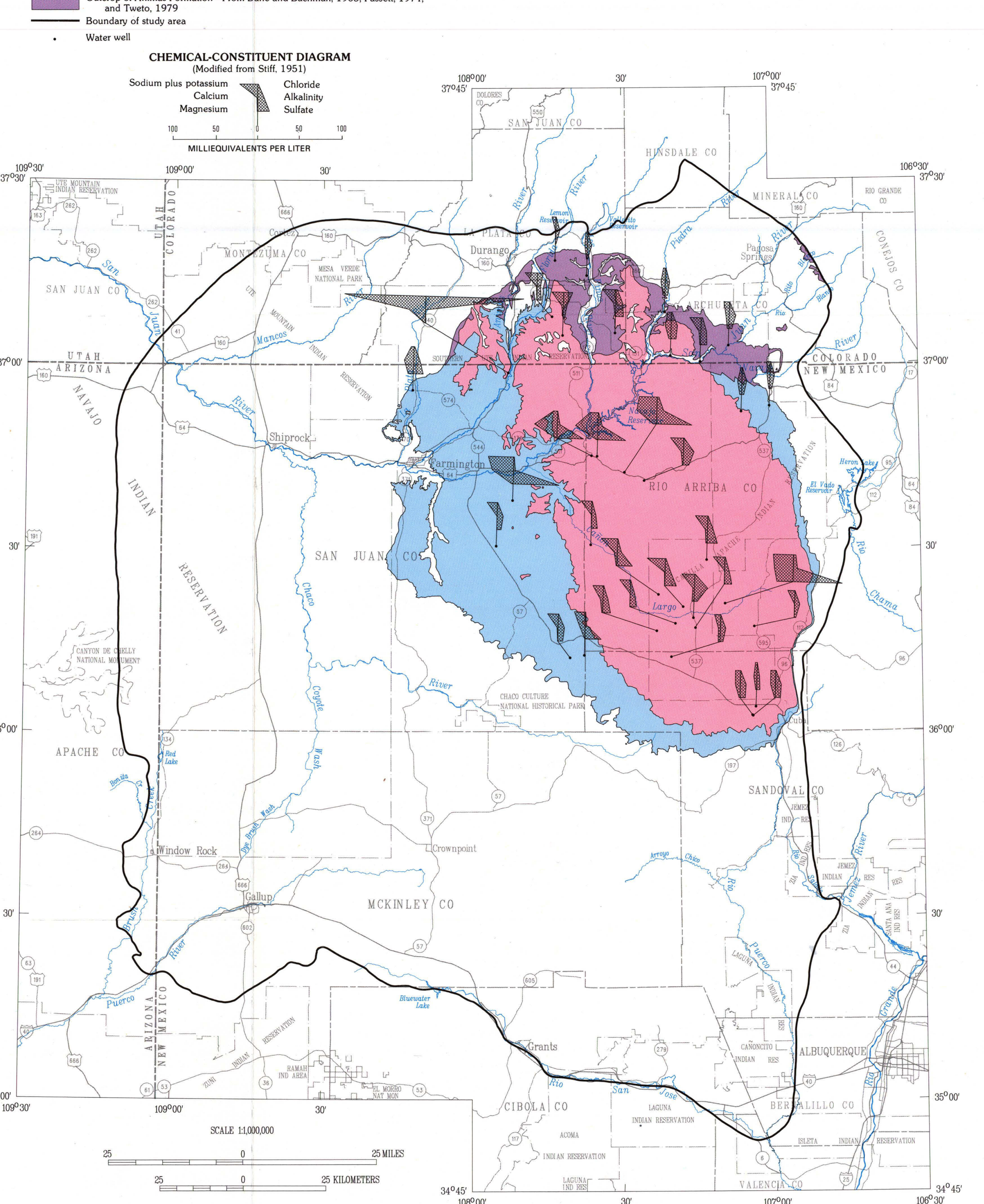


Figure 14. Chemical-constituent diagrams of water from selected water wells completed in the San Jose, Nacimiento, and Animas Formations.

HYDROGEOLOGY OF THE SAN JOSE, NACIMIENTO, AND ANIMAS FORMATIONS IN THE SAN JUAN STRUCTURAL BASIN, NEW MEXICO, COLORADO, ARIZONA, AND UTAH

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