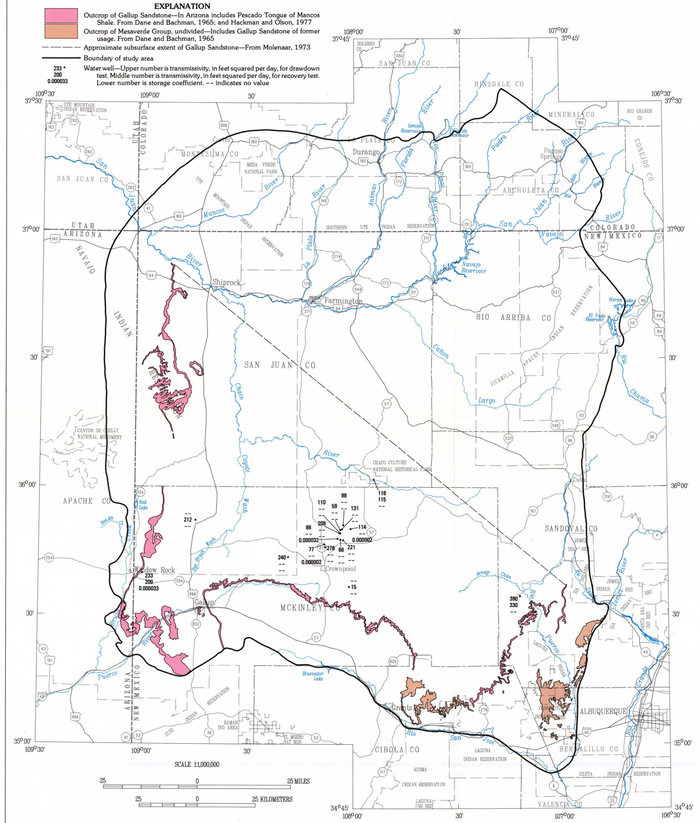


Figure 8. Values of transmissivity and storage coefficient at selected water wells completed in the Gallup Sandstone.

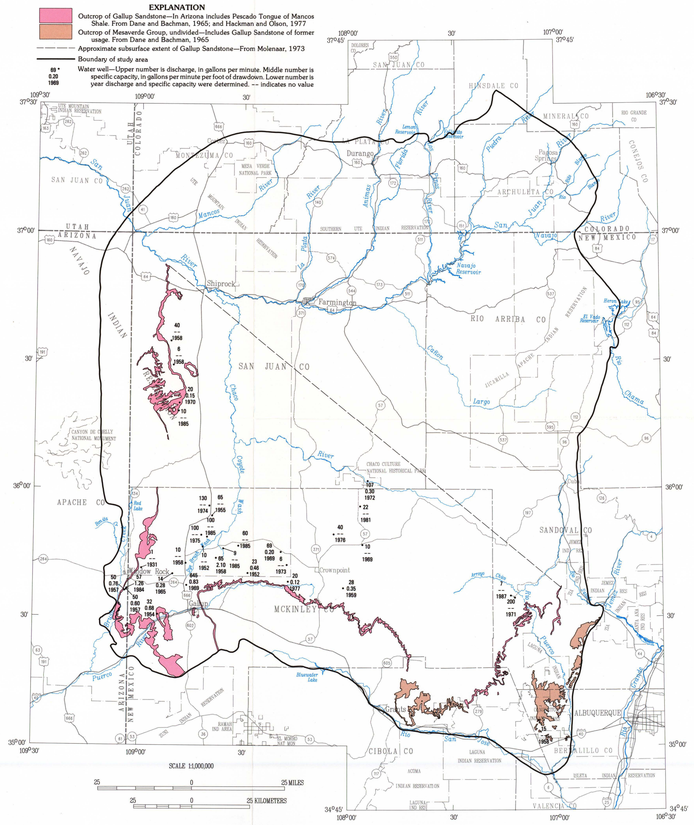
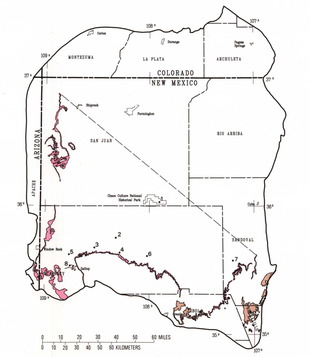


Figure 9. Discharge and specific capacity of selected water wells completed in the Gallup Sandstone.



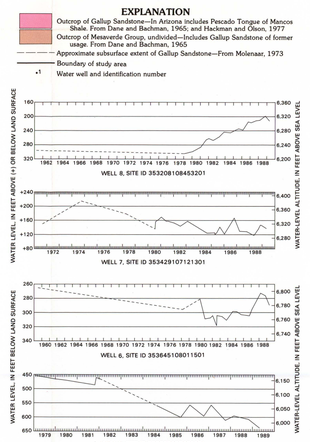


Figure 10. Water-level hydrographs for selected water wells completed in the Gallup Sandstone, 1959–89.

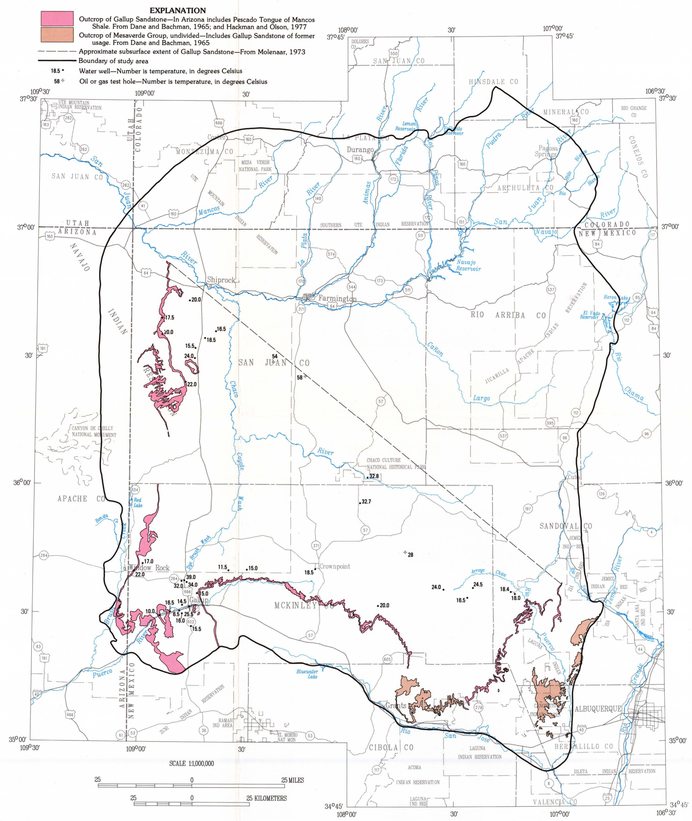


Figure 11. Temperature of water from selected water wells and oil or gas test holes completed in the Gallup Sandstone.

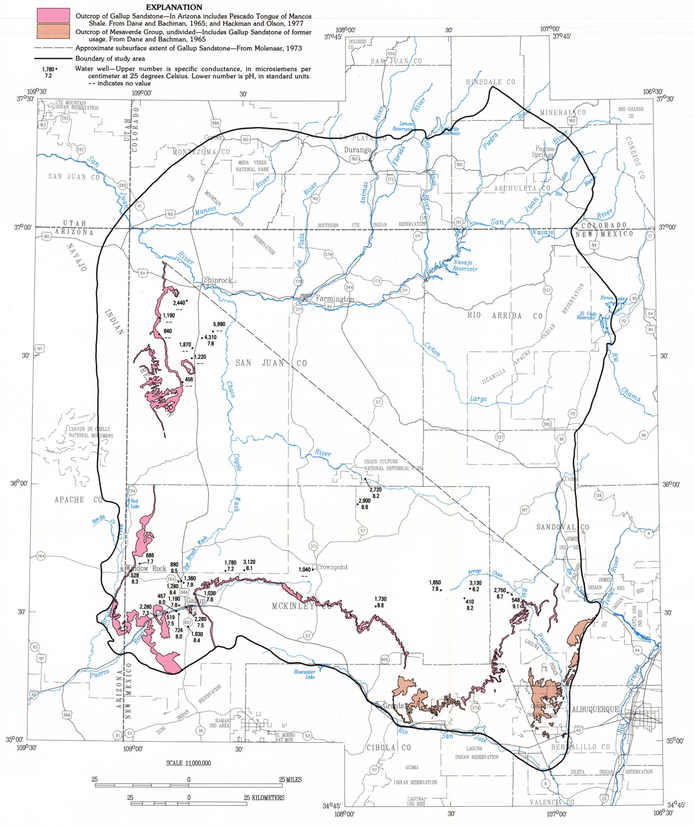


Figure 12. Values of specific conductance and pH for water from selected water wells completed in the Gallup Sandstone.

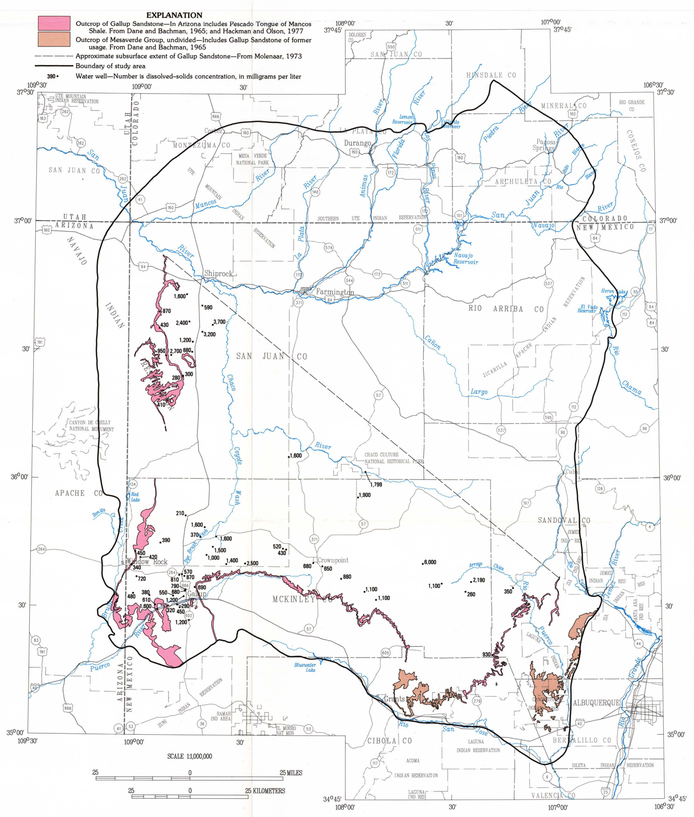


Figure 13. Concentration of dissolved solids in water from selected water wells completed in the Gallup Sandstone.

Table 1. *Selected properties of and constituents in water from the Gallup Sandstone*

[Dissolved constituents are reported in milligrams per liter]

Property or constituent	Number of samples	Minimum	Maximum	Median
Specific conductance (microsiemens per centimeter at 25 degrees Celsius)	78	351	10,200	1,220
pH (standard units)	57	7.1	9.2	8.0
Temperature (degrees Celsius)	54	6.5	58	18.4
Hardness, as calcium carbonate	76	5	2,300	110
Calcium	75	1.0	460	26.0
Magnesium	74	0.3	270	10
Sodium	32	36	720	220
Potassium	31	0.8	8.0	2.6
Alkalinity, total as calcium carbonate	76	70	567	243
Sulfate	77	9.7	2,800	350
Chloride	77	2.0	3,000	20
Fluoride	72	0.1	5.3	0.7
Dissolved solids, sum of constituents	75	210	6,000	830
Nitrate, as nitrogen	65	0.01	2.9	0.07

Table 2. *Selected primary drinking-water standards*

[From U.S. Environmental Protection Agency, (1986a). Constituents are reported in milligrams per liter]

Constituent	Standard
Fluoride	4
Nitrate (as nitrogen)	10

Table 3. *Selected secondary drinking-water standards*

[From U.S. Environmental Protection Agency, 1986b). Constituents are reported in milligrams per liter]

Property or constituent	Standard
pH (standard units)	6.5–8.5
Sulfate	250
Chloride	250
Fluoride	2
Dissolved solids	500

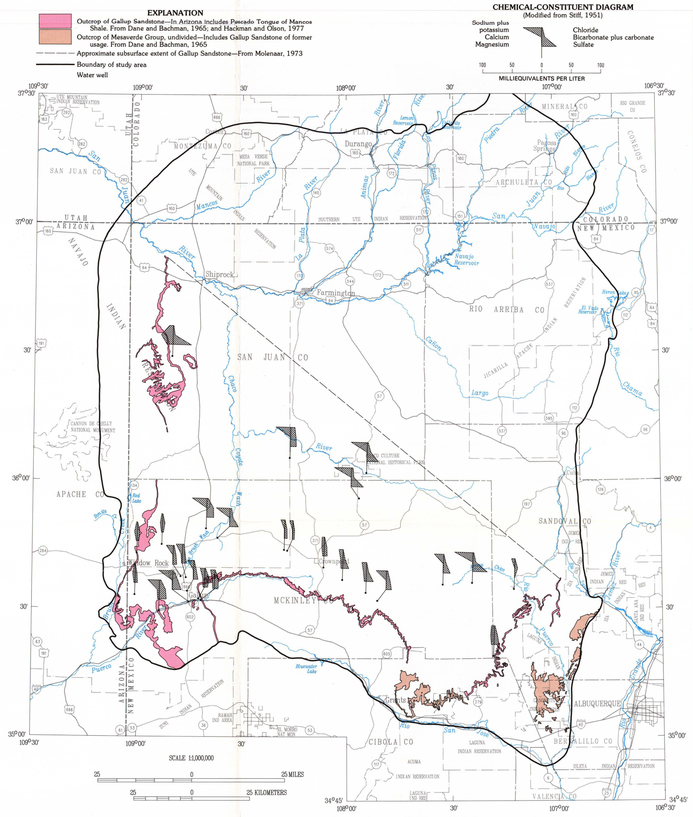


Figure 14. Chemical–constituent diagrams of water from selected water wells completed in the Gallup Sandstone.

Base from U.S. Geological Survey, 1:100,000 Digital Data
Universal Transverse Mercator Projection, zone 12

INTERIOR—GEOLOGICAL SURVEY, RESTON, VA–1989

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By
John Michael Kernodle, Gary W. Levings, Steven D. Craigg, and William L. Dam

1989