

Wisconsin Geological and Natural History Survey
Miscellaneous Map 40 1997
Groundwater Quality Investigation Maps
of Trempealeau County, Wisconsin
Plate 3

A part of the Trempealeau County Groundwater Resource Investigation,
a joint project of the Wisconsin Geological and Natural History Survey
and the Trempealeau County Board of Supervisors.

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EXPLANATION

206 alkalinity of water sample, in mg/L (CaCO₃)

GEOLOGIC MATERIALS CONTRIBUTING WATER TO WELL BY SOURCE OF DATA

FROM WELL CONSTRUCTOR'S REPORT [§]	INFERRED FROM HOMEOWNER INFORMATION OR WELL CONSTRUCTOR'S REPORTS FROM NEARBY WELLS
○ sandstone	● sandstone
● sand or sand and gravel	● sand or sand and gravel
● shale or shale and sandstone	● shale or shale and sandstone
● carbonate* or carbonate and sandstone	● carbonate* or carbonate and sandstone

[§]Well Constructor's Report represents the most probable match of a Wisconsin Department of Natural Resources Well Constructor's Report on file at the Wisconsin Geological and Natural History Survey to the sampled well on the basis of information provided by the homeowner, the location of the well as reported by the well driller, land-ownership information from plat books, and building locations as shown on U.S. Geological Survey 7.5-minute topographic maps.

*limestone and/or dolomite

Note: In areas where sampled wells with the same map symbol are too close together for the symbols to be clearly identified, one symbol is used, and the water-quality results are next to the combined symbol. However, if the map symbols are different, then two slightly separated symbols are shown, and water-quality results are next to each symbol.

Samples were collected June 1992 through August 1993 by J. Maliszewski under the supervision of P. Malone (Trempealeau County Extension Office) and were frozen prior to analysis. Chemical analyses were performed July 1992 through July 1994 by K.L. Lund (Wisconsin Geological and Natural History Survey).

Analytical method used: sulfuric acid titration, using Bromcresol Green-Methyl Red Indicator and a HACH digital titrator.

Reference: HACH Company Digital Titrator Model 16900-01 Methods Manual, 1980, p. 34-39.

Reproducibility: ± 5 mg/L at ≤200 mg/L (CaCO₃); detection limit, 2 mg/L (CaCO₃).



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This map is an interpretation of the data available at the time of preparation. Every reasonable effort has been made to ensure that this interpretation conforms to sound scientific and cartographic principles; however, the map should not be used to guide site-specific decisions without verification. Proper use of the map is the sole responsibility of the user.

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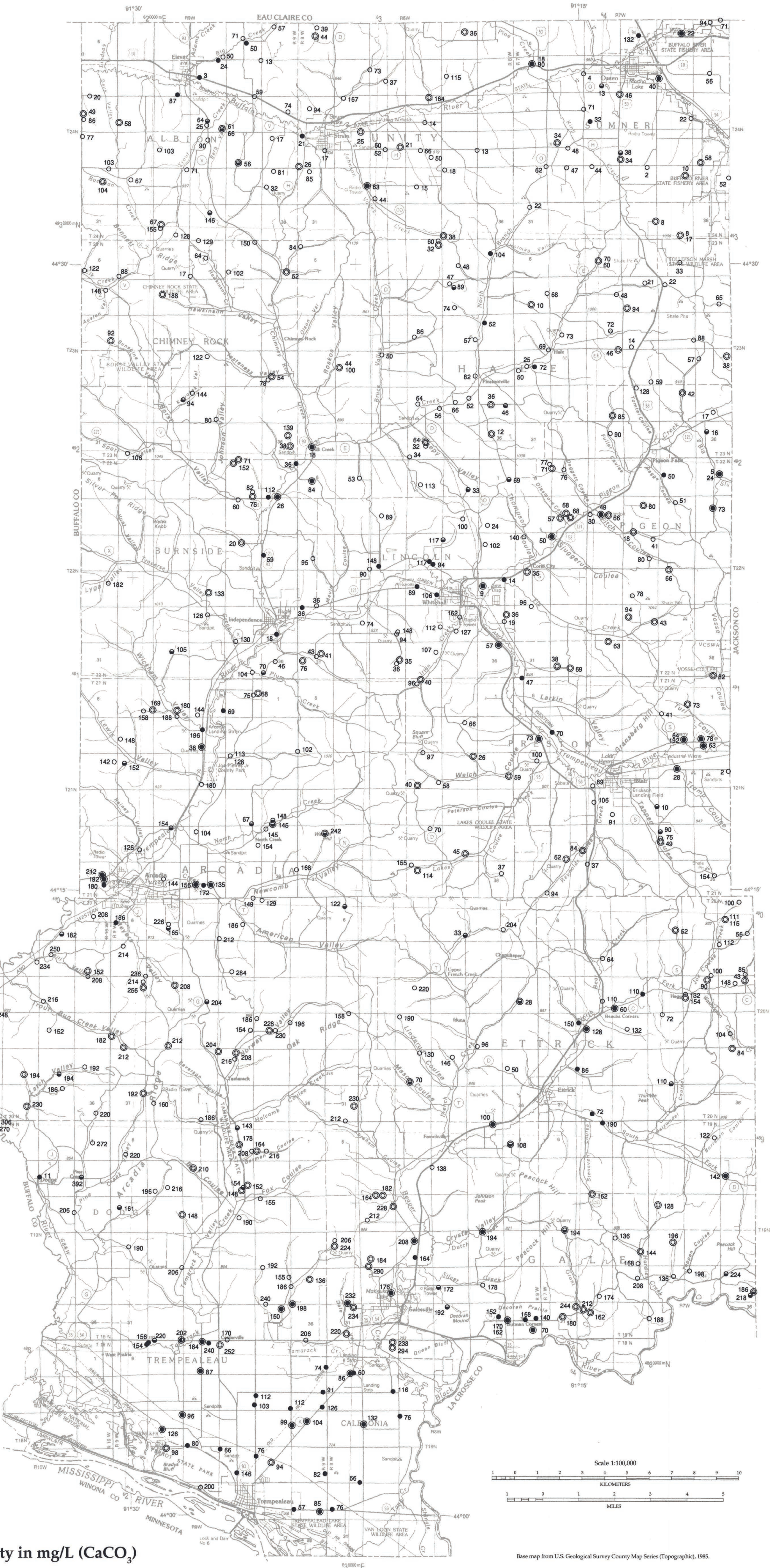


Plate 3 Laboratory measurement of alkalinity in mg/L (CaCO₃)

Base map from U.S. Geological Survey County Map Series (Topographic), 1985.