

100-11426

**IMPACT ASSESSMENT
WORK GROUP I**

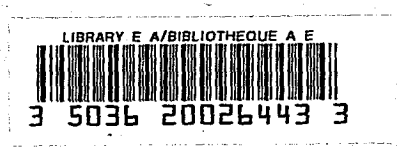
UNITED STATES — CANADA

**MEMORANDUM OF INTENT
ON
TRANSBOUNDARY AIR POLLUTION**

ACCOMPANING MAPS

**FINAL REPORT
JANUARY 1983**

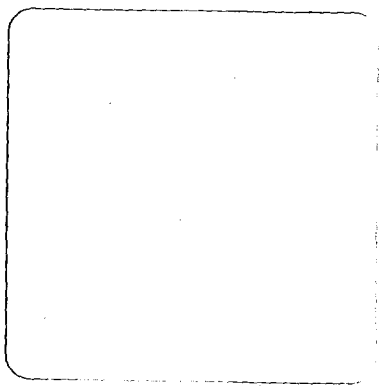
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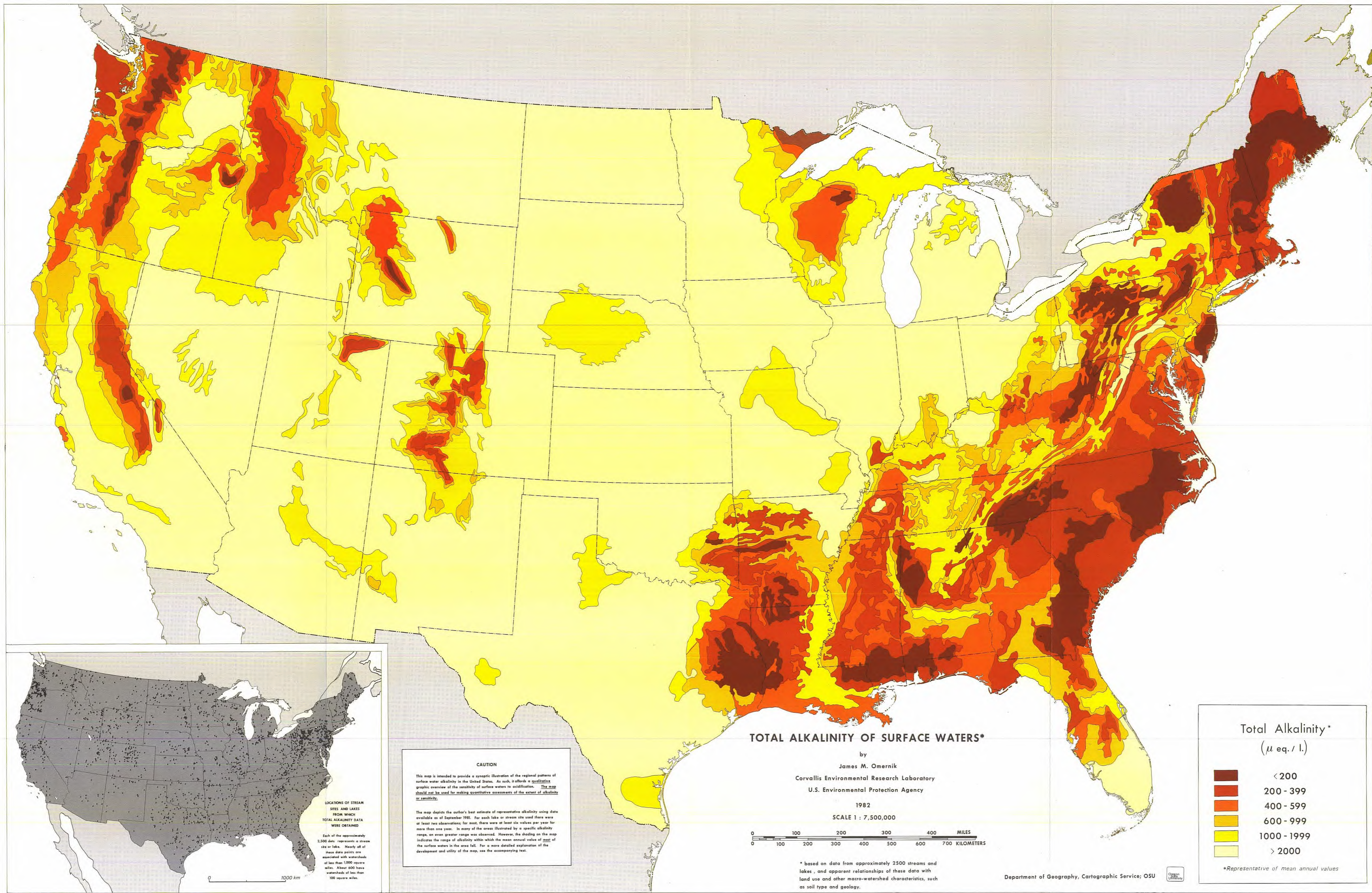


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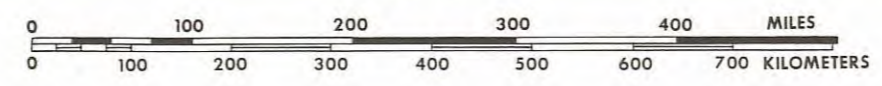




TOTAL ALKALINITY OF SURFACE WATERS*

by
 James M. Omernik
 Corvallis Environmental Research Laboratory
 U.S. Environmental Protection Agency

1982
 SCALE 1 : 7,500,000



Total Alkalinity*
 (μ eq. / l.)

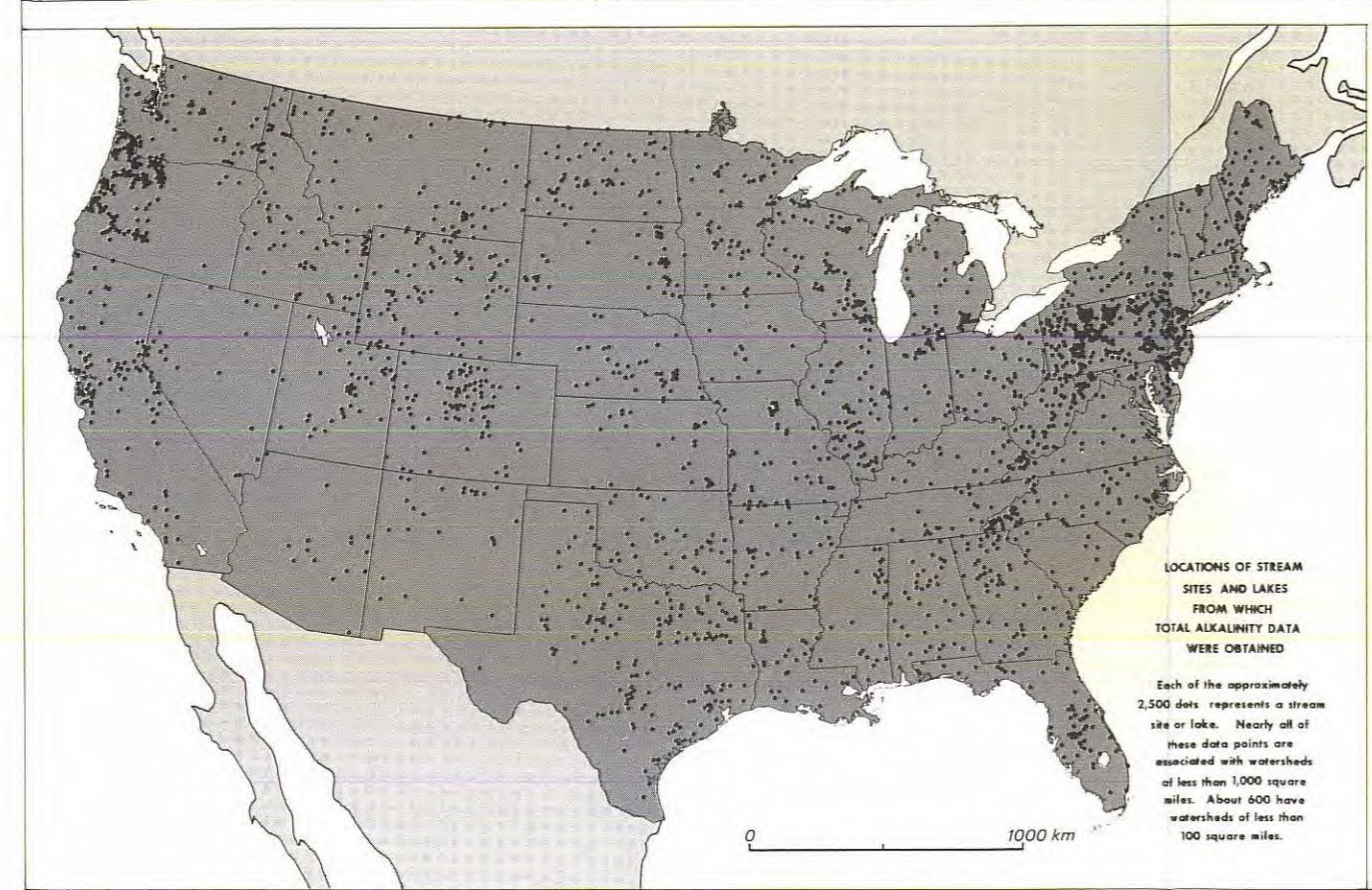
Dark Red	< 200
Red	200 - 399
Orange	400 - 599
Yellow-Orange	600 - 999
Yellow	1000 - 1999
Light Yellow	> 2000

*Representative of mean annual values

CAUTION

This map is intended to provide a synoptic illustration of the regional patterns of surface water alkalinity in the United States. As such, it affords a qualitative graphic overview of the sensitivity of surface waters to acidification. The map should not be used for making quantitative assessments of the extent of alkalinity or sensitivity.

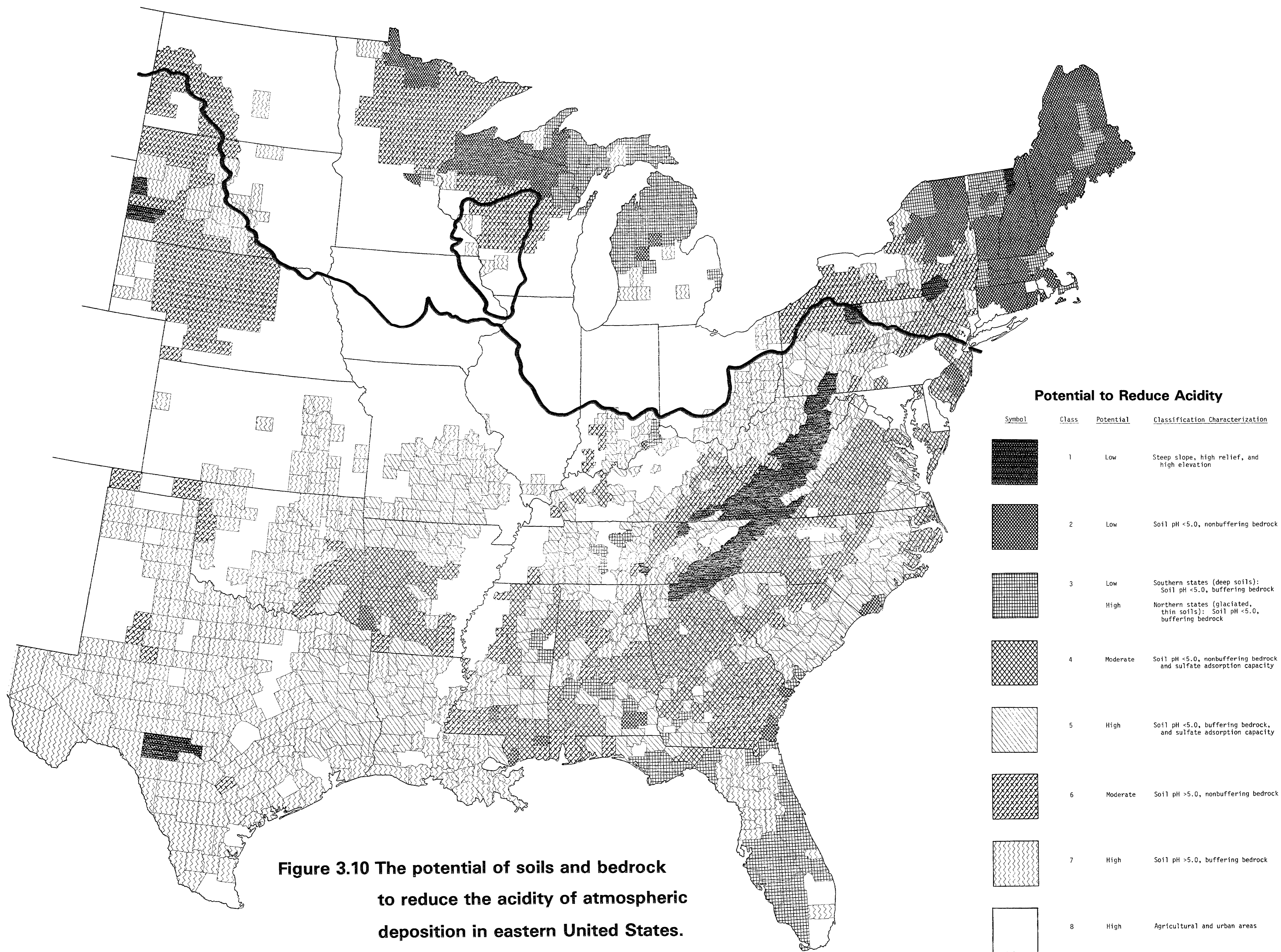
The map depicts the author's best estimate of representative alkalinity using data available as of September 1981. For each lake or stream site used there were at least two observations; for most, there were at least six values per year for more than one year. In many of the areas illustrated by a specific alkalinity range, an even greater range was observed. However, the shading on the map indicates the range of alkalinity within which the mean annual value of most of the surface waters in the area fall. For a more detailed explanation of the development and utility of the map, see the accompanying text.



LOCATIONS OF STREAM SITES AND LAKES FROM WHICH TOTAL ALKALINITY DATA WERE OBTAINED

Each of the approximately 2,500 dots represents a stream site or lake. Nearly all of these data points are associated with watersheds of less than 1,000 square miles. About 600 have watersheds of less than 100 square miles.

* based on data from approximately 2500 streams and lakes, and apparent relationships of these data with land use and other macro-watershed characteristics, such as soil type and geology.



Counties are classified according to their dominant (>50%) characteristics. The approximate southern limit of the last glaciation is shown as a heavy solid line.

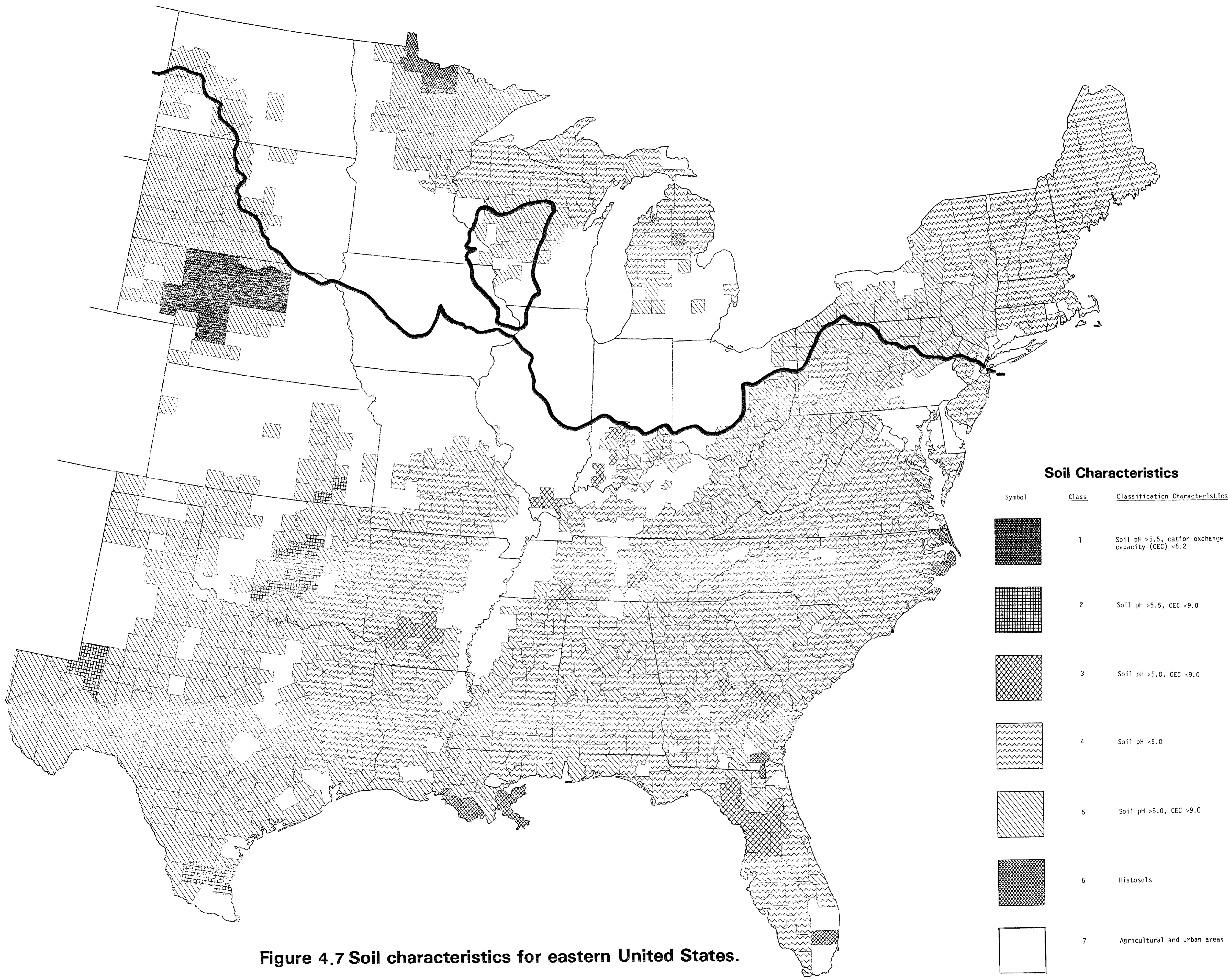


Figure 4.7 Soil characteristics for eastern United States.

Scale 1:5,000,000

Counties are classified according to their dominant (>50%) characteristics. The approximate southern limit of the last glaciation is shown as a heavy solid line.