

ABSTRACT

Municipal water supply systems experience a wide range of problems that affect their ability to operate. Some communities are more successful in solving water supply problems than others. The factors responsible for the successful resolution of such problems in western Illinois were the focus of this study.

To better understand the nature of these factors, questionnaires were used to collect data from 51 communities in a nine county
area to test the hypothesis that success in solving water supply
problems was related to population size. A number of previous
studies concluded that larger communities in the United States
generally were more successful in solving water supply problems
because more resources were available to contribute toward that
success.

The hypothesis was tested using the Chi-square statistic and a

 ${\tt regional\ water\ supply\ system\ and\ some\ unsuccessful\ communities\ to\ be}$ located in an area where they shared the same groundwater aquifer. No reasons, however, were forthcoming to $help\ clarify\ how\ success\ or\ lack$

preference for some successful communities to cluster around a