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Summary and Purpose

Just as there is no universally accepted definition for the concept of “water quality” there are many interpretations of what constitutes water quality research. Historically water quality is broadly defined as the physical, chemical, and biological composition of water affecting its intended use. Water quality has different meanings to different users and often it is not possible to predict intended use. Our ability to measure and interpret water characteristics changes over time as do the standards used to evaluate water suitability for a given use.

What follows is an alphabetical compilation of journal articles, books, and book chapters published between 1973 and 2013 authored or co-authored by University of Nebraska faculty and staff employed by the School of Natural Resources and the Nebraska Conservation and Survey. A separate bibliography includes reports, extension publications, and other types of water quality literature from this era. The period of compilation is arbitrary though it represents a highly productive period (this list contains over 300 citations) for improving our understanding of human activities and processes affecting water composition and controlling its intended use. The titles of some publications are easily related to water quality while others may seem distantly connected. In some cases, producers of water quality research publications may not even realize the long term implications of an article. Thus, any Nebraska water quality research bibliography will be incomplete. It is up to the users of this bibliography to decide if a citation belongs and whether others are missing. The purpose of this bibliography is to document the long term contributions and impact of the efforts by the many Nebraska natural resource scientists in expanding the body of knowledge for managing, protecting and conserving water quality for future beneficial use.

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29. Cai, Z.; Ramanujam, V. M. S.; Gross, M. L.; Monson, S. J.; Cassada, D. A.; Spalding, R. F., Liquid-solid extraction and fast atom bombardment high-resolution mass spectrometry for the
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