

EXAMPLE ABSTRACT

Andrew S. Todd
U.S. Geological Survey Crustal Imaging Team
Box 25046, M.S. 964
Denver, CO 80225-0046
303-236-1426
atodd@usgs.gov

New Water Temperature Standards to Protect Colorado's Fisheries

Todd, A.S.[†]

[†]Mineral Resources Program, U.S. Geological Survey, Box 25046, MS 964, Denver, Colorado, USA

Water temperature fundamentally influences aquatic diversity and ecosystem health. In Colorado, temperature water-quality standards were revised in January 2007 based on a rigorous evaluation of the thermal requirements and limitations of fish species resident in Colorado. The Colorado Temperature Database was created to assemble relevant thermal tolerance and optimum growth temperature data from the primary literature. Acute and chronic thermal thresholds were then calculated for individual fish species, assemblages of fish were identified that represent key categories of water resources in Colorado, and ultimately, temperature Table Value Standards were calculated for each assemblage. A case study is presented detailing the integration of science and policy decisions that shaped the development of Colorado's cold water temperature standards. Some issues not resolved during this revision of Colorado's temperature water quality standards are discussed.

Platform

No consideration for Best Student Paper