Abstract

GIS Application to Stream Navigability
Track: Water Resources
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A GIS application to stream navigability involving all the small and minor watercourses in Arizona is presented. The work is aimed at identifying streams that exhibit characteristics of navigability at the time of Arizona's statehood in 1912. A three-level screening approach was developed involving the examination of stream attributes critical to navigability, and the engineering analysis of the hydrology, hydraulics, and geomorphology of streams. Hydraulic characteristics of streams were evaluated against established boating criteria. The result of the multi-level approach is a short-list of watercourses recommended for detailed study that will compile historical and technical evidence for final stream classification.

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