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OVERVIEW

4 The National Hydrography Dataset: Introduction

FEATURE ARTICLES

5 Applications of the NHD at the U.S. Environmental Protection Agency

Thomas G. Dewald (dewald.tommy@epa.gov)
The Clean Water Act means the collection of millions of pieces of data about the health of the Nation’s surface water. The U.S. Environmental Protection Agency is able to spatially reference and integrate these data using the National Hydrography Dataset.

8 Using the NHD as a Tool for Fisheries GIS Data Evaluation and Management

Lidia Szabo Kraft (lszabo@umich.edu) and Christine A. Geddes
Maintaining a healthy fish population in Michigan waters requires a careful analysis of fish habitat, a habitat often fragmented by the placement of dams in rivers. A new tool employing the NHD allows researchers to study the most effective scenarios for removing dams and restoring spawning routes.

12 Utilization of the NHD in the U.S. Forest Service

Brian Sanborn (bsanborn@fs.fed.us) and Greg Enstrom
Managing the waters within the extensive National Forests can be made more effective through the collection of water data, the integration of these data, and tools for the analysis of these data. This is being done using the NHD-based Natural Resource Information System Water Module.

15 NHD, RiverSpill, and the Development of the Incident Command Tool for Drinking Water Protection

William B. Samuels (WILLIAM.B.SAMUELS@saic.com), Rakesh Babhur, Michael C. Montelith, David E. Amstute, Jonathan M. Pickus, Katherine Parker, and Douglas Ryan
Time sensitive decision making in a crisis requires the availability of a full suite of data resources and tools upon which to base a plan for action. A specialized system being developed to manage waterborne threats uses the spatial framework of the NHD.

19 The Upper Neuse Watershed Evaluation Tool: Putting the Power of the NHD to Work in Local Watersheds

Silvia E. Terzilli (seterzilo@usgs.gov), Mary J. Giorgino, and Christopher L. Drees
The supply of drinking water in a fast growing regional group of communities requires a common management system for understanding water quality and the potential impacts to that quality from urban development. The NHD forms the foundation of the system.

25 Using the NHD to Create an Arc Hydro Network for the St. Johns River Water Management District

Sandra Fox (sfox@sjrwmrd.com), David Clapp, and Alisa Ceric
A water management district in Florida utilizes the NHD in the similar Arc Hydro data model to take advantage of specialized applications for determining the drainage areas of water quality monitoring sites.