

### NHD Information

- Describes the flow of water through streams, rivers, lakes and ponds
- Provides an easy way to link water related data to your GIS
- Uses a nationally consistent model developed by the EPA and the USGS
- Supports stream ordering, linear referencing, and GNIS naming conventions
- GDMIS is a leader in improved production standards and design of high-resolution NHD
- Our strong QA/QC program has resulted in one of the highest national acceptance rates into the NHD Geo-spatial Feature Oriented Database (Geo-FOD)



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analyses.

**Production of High Resolution NHD:** GDMIS is one of the nations most experienced, accurate and affordable providers of high resolution (HR) 1:24,000 NHD. GDMIS builds upon cooperative effort between the EPA and the USGS, which created a nationwide coverage of 1:100,000 NHD. While this scale is useful for regional analyses, more detailed studies require HR NHD data. To meet this need, GDMIS has developed a streamlined process and capability to create HR NHD data. In addition to the increased spatial accuracy, HR NHD data provides a five-fold increase in the density of the stream network and a twenty-fold increase in the number of water bodies. Centerlines are added to represent flow paths through two-dimensional features and attributes are supplemented using the Geographic Names Information System (GNIS). The resulting NHD database retains linkages with the original 1:100,000-scale data, while providing users with greatly increased content and accuracy.

**Production of Local Resolution NHD:** Taking NHD to the next step, and offering a bit more detail, GDMIS also offers Local Resolution (LR) NHD. Standards for LR NHD differ from local, state and federal entities. LR source data comes in a variation of small scales, data formats, collection processes, attribute schemes, spatial accuracies and geographic extents depending on the end user's needs. This knowledge of the data can be acquired through metadata, or through first-hand knowledge of the data itself. Any hydrographic data can be used to create LR NHD, with proper assembly. Properties of the original data will be retained throughout LR NHD assembly without any additional preparation. GDMIS will conform to spatial accuracy and attribution requirements based on the needs of the end user.

**The National Hydrography Dataset (NHD)** is a spatial database that describes surface water features and their inter-relationships. As a nationally standardized database, the NHD provides a framework for linking a wide variety of water related data from multiple sources to the surface drainage network. By using NHD, such information as flow rates, downstream risk potentials, environmental impacts and water quality may be integrated to enable advanced modeling and scientific