The National Hydrography Dataset (NHD)

Hydrologic Catalog Units

Regions

Sub-Regions

Accounting Units

Cataloging Units

Hydrologic Unit Code (HUC)

10 28 02 03

Region

Sub-Region

Accounting Unit

Catalog Unit

Missouri has 66 Hydrologic Units

1:100,000-scale maps with HUC

1:24,000-scale data paneled

Paneled with HUC overlay

Procedures

- Panel 1:24,000-scale quads
- Check HUC Boundary

HUC Boundary placement

ArcView GIS Version 3.1
File Edit View Theme Graphics Window Help
Scale 1:
281,039.01
4,097,461.99
View2
George_utm
Rch
Sfk_geo
Rch
036083h4.tif
Birch Fork
Harney Branch
Long Fork
Oak
Pigeon
Mill Hol
Creek
Start
GroupWise...
STRS - Em...
arc72
Exploring - ...
Microsoft ...
ArcView ...
ARC/INFO ...
george1.b...
11:46 AM

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ArcView GIS Version 3.1
File Edit View Theme Graphics Window Help
Scale 1:
280,954.47
4,097,475.34
View2
George_utm
Rch
Sfk_geo
Rch
036083h4.tif
Harney Branch
Long Fork
Oak
Pigeon
Mill Hol
Creek
Strip Mine
Start
GroupWise...
STRS - Em...
arc72
Exploring - ...
Microsoft ...
ArcView ...
ARC/INFO ...
11:45 AM

Procedures

- Panel 1:24,000-scale quads
- Check HUC Boundary
- Clip Data to HUC Boundary

Clipped to HUC

Conflation

- **Transfer of attributes from one data set to another.**
- **Transfer attributes between digital representations of the same geospatial feature.**

1:100,000-scale Conflated to 1:24,000-scale

Conflation

Reaches

1:24,000 over 1:100,000

Attributes of the Reach Table

Attributes of Reach

Shape	Reach#	Reach-id	Feature_id	Reach_code	Assign_date	Level	Name	Gnis_id	Meters
PolyLine	192	192	192	05070204000196	19970407	6	Brammer Branch	90510652	2130
PolyLine	193	193	193	05070204000197	19970407	6	Griffith Branch	90510653	2476
PolyLine	194	194	194	05070204000198	19970407	6	Coal Branch	90510654	1683
PolyLine	195	195	195	05070204000199	19970407	6	Cooksey Fork	90510655	3434
PolyLine	196	196	196	05070204000200	19970407	6	Cooksey Fork	90510655	4954
PolyLine	197	197	197	05070204000201	19970407	7	Jobe Branch	90510656	2180
PolyLine	198	198	198	05070204000202	19970407	5	Spankem Branch	90510657	2518
PolyLine	199	199	199	05070204000203	19970407	5	Morgans Creek	90510658	2838
PolyLine	200	200	200	05070204000204	19970407	5	Morgans Creek	90510658	4789
PolyLine	201	201	201	05070204000205	19970407	6	Raven Rock Fork	90510659	2064

High Resolution NHD Names

Procedures Summation

- Panel 1:24,000-scale quads
- Check HUC Boundary
- Clip Data to HUC Boundary
- Group Arcs
- Perform Manual Editing
- Flip Streams
- Attribute Nodes
- Add Artificial Paths
- Extract Single-line Transport features
- Create Drainage Network
- Conflate

http://nhd.usgs.gov

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EPA
United States Environmental Protection Agency

text version

- Technical References
- Data
- Data Viewer
- Application Demo
- Tutorial Series
- Technical Support
- Maintenance

National Hydrography Dataset

The National Hydrography Dataset (NHD) is a comprehensive set of digital spatial data that contains information about surface water features such as lakes, ponds, streams, rivers, springs and wells. Within the NHD, surface water features are combined to form "reaches," which provide the framework for linking water-related data to the NHD surface water drainage network. These linkages enable the analysis and display of these water-related data in upstream and downstream order.

The NHD is based upon the content of USGS Digital Line Graph (DLG) hydrography data integrated with reach-related information from the EPA Reach File Version 3 (RF3). The NHD supersedes DLG and RF3 by incorporating them, not by replacing them. Users of DLG or RF3 will find the National Hydrography Dataset both familiar and greatly expanded and refined.

While initially based on 1:100,000-scale data, the NHD is designed to incorporate and encourage the development of higher resolution data required by many users.