Louisiana State Watershed Boundary Dataset
12 Digit Hydrologic Unit

Team Members:

Jason Kroll – E. I., Civil Engineer, Water Resources, NRCS
Adele Swearingen – Water Resources, NRCS
Scotty Windham – Water Resources, NRCS
Tania Nanna – GIS/Soils, NRCS
Robert Capezza – GIS/Soils, NRCS

Karen M. Hanson – WBD National Coordinator for USGS
Laura Davenport – WBD National Coordinator for NRCS
Louisiana State Watershed Boundary Dataset

12 Digit Hydrologic Unit

Mission and Purpose:

- The objective was to delineate and define watersheds at a much finer resolution with a consistent, reproducible method that meets National standards and that is accepted by all agencies and public land users.

- The mission was to provide the nation with more detailed hydrologic watersheds to the 6th level, i.e., 12 Digit Hydrologic Unit Code (HUC), to better manage the nation’s lands.
Louisiana State Watershed Boundary Dataset

12 Digit Hydrologic Unit

Strategy:

- USGS and NRCS collaborated and entered into an agreement to delineate watersheds to the 5th and 6th level for the nation at a 1:24,000 scale.
- USGS provided the administrative and technical guidance throughout this project.
- NRCS acted as “Watershed Boundary Coordinators” that involved digitizing, attributing, and in-house QA/QC of datasets all meeting National standards.
“SUB-BASINS”

59 - 4th level (8-digit)
(avg. size 450,000 acres)
269 - 5th level (10-digit)
(40,000 – 250,000 acres)
1266 - 6th level (12-digit)
(10,000 – 40,000 acres)
Methodology:

- Concept lines for 10 & 12-digit HUCs were delineated referencing the best available base layers, i.e., 24K DRGs, DOQs, and LIDAR.
- Lines were converted to polygons, then topology was created for overlaps and gap errors. Polygons were attributed with the appropriate data such as watershed codes, names, and modifications (all spelled out in a federal handbook).
- NRCS collaborated with USGS and NRCS neighboring states, to ensure seamless edgematches along state borders and to resolve other data issues.
NRCS conducted several QA/QC reviews and collaborated with USGS to finalize the 12-digit watershed datasets.

GIS datasets and applicable metadata were then sent for certification and final approval.

12-digit HUC watersheds are now published and available on the “USDA Geospatial Data Gateway” website. [http://datagateway.nrcs.usda.gov/](http://datagateway.nrcs.usda.gov/)
The Geospatial Data Gateway provides One Stop Shopping for natural resources or environmental data at anytime, from anywhere, to anyone. The Gateway allows you to choose your area of interest, browse and select data from our catalog, customize the format, and have it downloaded or shipped on CD or DVD.

Minimum Requirements: Microsoft Internet Explorer 5.5 or Netscape Communicator 4.76 with Java enabled.
Internet Explorer users must check Java options and use JRE 1.5 (or higher) before proceeding. (see FAQ item 2)

The Geospatial Data Gateway provides One Stop Shopping for natural resources or environmental data at anytime, from anywhere, to anyone. The Gateway allows you to choose your area of interest, browse and select data from our catalog, customize the format, and have it downloaded or shipped on CD or DVD.

SYSTEM STATUS
3/26/2009 7:05:58 PM MST:
All products and services are running normally.
Step 1

Instructions

Locate your area of interest using the zoom in, zoom out, center, move, place search, or Minimum Bounding Rectangle controls. Then use Define Order Area to proceed to Step 2.

Alternatively, select a county, county(s), or a state with a control below that will go directly to Step 2.
Step 1

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Alternatively, select a county, county(s), or a state with a control below that will go directly to Step 2.

Quick County
Quick County(s)
Quick State
Step 2

Instructions

Add a product to your shopping cart by clicking the box alongside its title. When satisfied with your selections, press the Continue button to proceed to Step 3.

Also, highlight a product by clicking Preview Map(s) & Metadata for the product images and metadata OR press Product Description for general information and sample image.

Continue To Step 3
Step 2

Instructions
Add a product to your shopping cart by clicking the box alongside its title. When satisfied with your selections, press the Continue button to proceed to Step 3.

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Continue To Step 3
Step 3

Instructions
From the dropdown lists, choose the desired format for the data you have requested. When satisfied with your selections, press the Continue button to proceed to Step 4: Shipping Information.

Data Format for the Selected Products

Format for Vector Data (WBDHU12)
Vector Projection
(See the Projections Available Table)
Geographic (Lat/Long) NAD83
Vector Extent
(See the Extent Options Table)
UTM Zone 15 NAD83
UTM Zone 16 NAD83
State Plane Louisiana North NAD83
State Plane Louisiana South NAD83
Vector File Format
*NOTE:
Choosing ESRI Coverage or ASCII Export format applies to all digital data. This significantly delays order fulfillment. All other products are delivered as ESRI Shape File(s).
The option 'One ESRI Shape File' does not apply to CLU and SSURGO.

Format for All Data
Compression: All themes and maps delivered via FTP are in Zip format.
NOTE: CD orders and products larger than 2.14 GB are not compressed into a single archive.
Geospatial Data Gateway

S3: Data Format for the Selected Products

- Format for Vector Data (WBDHU12)
  - Vector Projection:
    - Geographic (Lat/Long) NAD83
  - Vector Extent:
    - Geographic (Lat/Long) NAD83
    - UTM Zone 15 NAD83
    - UTM Zone 16 NAD83
    - State Plane Louisiana North NAD83
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- Vector File Format:

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Format for All Data
- Compression: All themes and maps delivered via FTP are in Zip format.
- NOTE: CD orders and products larger than 2.14 GB are not compressed into a single archive.

Step 3

Instructions:
From the dropdown lists, choose the desired format for the data you have requested. When satisfied with your selections, press the Continue button to proceed to Step 4:
Shipping Information.

Continue to Step 4
Step 4

Instructions
First select the method of delivery. Then provide shipping information so that you can be notified when your order is done. The information must be complete and accurate for you to be contacted.

Note: FTP download times can be significant for many orders.

Options
- Save Values
- Privacy Statement

Delivery Information (* means required)

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<tr>
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<tr>
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<td>71302</td>
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<tr>
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Step 4

Instructions

First select the method of delivery. Then provide shipping information so that you can be notified when your order is done. The information must be complete and accurate for you to be contacted.

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Options

- Save Values
- Privacy Statement

Delivery Method

- FTP Download
- CDROM
- DVD

Delivery Information (* means required)

- First Name: Robert
- Last Name: Capezza
- Email: robert.capezza@la.usda.gov
- Confirm Email: robert.capezza@la.usda.gov

Organization/TSP ID

- Address: 3737 Government St.
- City: Alexandria
- State: LA
- Zip: 71302
- Phone: 318-473-7740
- Fax:

Continue to Step 5
Order Confirmation

Data Format
- Projection: UTM Zone 15 NAD83
- Extent: Standard
- Compression: Zip
- Vector Format: One Shape File

Shipping Info
- Name: Robert Capezza
- Organization: -
- Email: robert.capezza@la.usda.gov
- Address: 3737 Government St.
- City, St, Zip: Alexandria, LA 71302
- Delivery Method: Fax
- Phone: 318-473-7740
- Order Area: *, Louisiana

Estimated total downloaded size: 37.22 megabytes.
Estimated time for this order to be completed is: 2 Minute(s)

See the Download Times Table for estimated FTP download times for this amount of data.

Products Ordered

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Step 5
Instructions
Recheck current information. If any errors are present you may return to any previous step to correct. If the information is correct, the order may be submitted for processing.

You will receive an order number on the next page, which may take a few minutes to appear. Please be patient.

Please Press
Place Order
Only Once
Thank You for using the Geospatial Data Gateway

Gateway Order #: 925577 has been generated

You will receive e-mail notification that your order is complete in as little as: 3 Minute(s)

This time is a minimum and is dependant on order volume and system maintenance, and as a result, is not exact.

'Check Order' allows download of items completed before notification.

As a matter of etiquette, please download this order BEFORE placing any more orders. DO NOT place several orders in sequence. This way, other users will have an opportunity to place and download orders.

You may return to the Geospatial Data Gateway
Dear Robert,

Your Gateway order 925577 has been processed and is ready for download.

Area for Order:
* County, Louisiana

Vector Format: One Shape File
Vector Projection: UTM NAD83 Zone 15
Image Format: Native
Vector Extent: Standard
Compression: Zip

!!! Important Note !!!
If you have problems completing downloads, please see
Gateway FAQ # 24: http://datagateway.nrcs.usda.gov/FAQ/FAQ_main.html
If you would like to check the status or download your order, please use
Check Order: http://datagateway.nrcs.usda.gov/orderstatus.asp

Ordered Items:
12 Digit Watershed Boundary Dataset 1:24,000
  Size: 36.70 megabytes (17 files). Download compressed size: 27.74 megabytes (2 maps).
  ftp://anonymous:925577@gateway2.fbw.nrcs.usda.gov/Gateway/925577/hydrologic_units_WBDHU12_925577_01.zip

Click on the link to download. Ensure the link is complete because some it may be on subsequent line(s).
Total data package size is 36.70 megabytes (27.74 megabytes compressed)

These files will be removed from their systems in 5 days (4/7/2009).

Regards,
The Gateway Staff
http://datagateway.nrcs.usda.gov/GatewayHome.html
*If hot links are not supported, simply cut and paste the URL into your browser’s address bar.
Ensure that the URL is not truncated and has the full path which may be on subsequent line(s).
From: Geospatial Data Gateway [gateway@ftc.usda.gov]
To: Capezza, Robert - Alexandria, LA
Cc:
Subject: Gateway Order 925577 For *, Louisiana

Dear Robert,

Your Gateway order 925577 has been processed and is ready for download.

Area for Order: 
* County, Louisiana

Vector Format: One Shape File
Vector Projection: UTM NAD83 Zone 15
Image Format: Native
Vector Extent: Standard
Compression: Zip

!! IMPORTANT NOTE !!
If you have problems completing downloads, please see
Gateway FAQ # 24: http://datagateway.nrcs.usda.gov/FAQ/FAQ_main.html
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**Vector Projection:** UTM NAD83 Zone

**Image Format:** Native
**Vector Extent:** Standard
**Compression:** Zip

***Important Note!!!***
If you have problems completing downloading, please check Gateway FAQ # 24: [http://datagateway.nrcs.usda.gov](http://datagateway.nrcs.usda.gov)
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### Identified 1 Feature

**Location:** 533,566.007 3,505,019.515 Meters

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QUESTIONS or COMMENTS?

CONTACT INFORMATION

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Alexandria, LA 71302

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