

Texas Ecologically Unique River and Stream Segments

Metadata also available as

Metadata:

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- [Spatial Reference Information](#)
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Identification_Information:

Citation:

Citation_Information:

Originator: Texas Parks and Wildlife Department

Publication_Date: 2009

Title: Texas Ecologically Unique River and Stream Segments

Geospatial_Data_Presentation_Form: vector digital data

Online_Linkage:

\\tpwd-fs01\cf\Water Resources\water

quantity\Albert\ARC2009\NHD_ARC\Region_C_NHD\shapefiles_C\sig_segs_c.shp

Description:

Abstract:

Ecologically Unique River and Stream Segments (31 TAC 357.8) updated using flowlines from NHDPlus (August 2008).

As a result of the passage of Senate Bill 1 in 1997, water planning in Texas became the domain of regional planning groups rather than the Texas Water Development Board (TWDB). As a part of the planning process, each regional planning group may include recommendations for the designation of ecologically unique river and stream segments in their adopted regional water plan. Stream segment designation is to be supported by a recommendation package that includes a physical description, maps, photographs, literature citations, and data pertaining to each candidate stream segment. In accordance with the TWDB's rules, the following criteria are to be used when recommending a river or stream segment as being of unique ecological value:

- Biological Function: Segments which display significant overall habitat value including both quantity and quality considering the degree of biodiversity, age, and uniqueness observed and including terrestrial, wetland, aquatic, or estuarine habitats;
- Hydrologic Function: Segments which are fringed by habitats that perform valuable hydrologic functions relating to water quality, flood attenuation, flow stabilization, or groundwater recharge and discharge;
- Riparian Conservation Areas: Segments which are fringed by significant areas in public

ownership including state and federal refuges, wildlife management areas, preserves, parks, mitigation areas, or other areas held by governmental organizations for conservation purposes under a governmentally approved conservation plan;

- High Water Quality/Exceptional Aquatic Life/High Aesthetic Value: Segments and spring resources that are significant due to unique or critical habitats and exceptional aquatic life uses dependent on or associated with high water quality; or
- Threatened or Endangered Species/Unique Communities: Sites along segments where water development projects would have significant detrimental effects on state or federally listed threatened and endangered species, and sites along segments that are significant due to the presence of unique, exemplary, or unusually extensive natural communities.

The Texas legislature can officially designate stream segments as being of unique ecological value following nomination of stream segment by a regional planning group. By so doing, a state agency or political subdivision may not obtain a fee title or an easement that would destroy the unique ecological value of a designated stream. It should be noted that these stream segments do not have to correspond to classified water quality segments.

Purpose: Update from NHD to NHDPlus basemaps

Supplemental_Information:

additional information online:

[<http://www.tpwd.state.tx.us/landwater/water/environconcerns/water_quality/sigsegs/>](http://www.tpwd.state.tx.us/landwater/water/environconcerns/water_quality/sigsegs/)

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: early 2000's

Currentness_Reference: publication date

Status:

Progress: Complete

Maintenance_and_Update_Frequency: As needed

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -98.205188

East_Bounding_Coordinate: -95.687922

North_Bounding_Coordinate: 33.875998

South_Bounding_Coordinate: 31.436169

Keywords:

Theme:

Theme_Keyword_Thesaurus: FGDC

Theme_Keyword: environment

Theme_Keyword: biota

Theme_Keyword: inlandwaters

Place:

Place_Keyword: Texas

Place_Keyword: United States

Access_Constraints: none known

Use_Constraints: none

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Lynne Hamlin, M.S. GISP

Contact_Organization: Texas Parks and Wildlife Dept.

Contact_Position: Water Resources Scientist

Contact_Address:

Address_Type: mailing and physical address

Address: 4200 Smith School Road

City: Austin

State_or_Province: Texas

Postal_Code: 78744

Country: USA

Contact_Voice_Telephone: 512-389-8790

Contact_Voice_Telephone: 512-389-8051

Contact_Electronic_Mail_Address: Lynne.Hamlin@tpwd.state.tx.us

Contact_Electronic_Mail_Address: Albert.El-Hage@tpwd.state.tx.us

Hours_of_Service: 8am to 5pm

Contact_Instructions: email preferred

Browse_Graphic:

Browse_Graphic_File_Type: TIFF

Data_Set_Credit:

2008 update performed by Lynne Hamlin GISP Water Resources Branch, Texas Parks and Wildlife Department (TPWD), 4200 Smith School Road, Austin, Texas 78704. Based on the work of Albert El-Hage (TPWD) completed in 2002. NHDPlus data available from: <http://www.horizon-systems.com/nhdplus/>

Security_Information:

Security_Classification_System: none

Native_Data_Set_Environment:

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.1.3000

Cross_Reference:

Citation_Information:

Originator:

Texas Parks and Wildlife Department, Water Resources Branch, Austin, Texas

Publication_Date: 2009

Title: Texas Ecologically Unique River and Stream Segments

Geospatial_Data_Presentation_Form: map

Publication_Information:

Publication_Place: Austin, Texas USA

Publisher: Texas Parks and Wildlife Department

Online_Linkage:

Data_Quality_Information:

Logical_Consistency_Report:

Flowlines are consistent with medium resolution NHDPlus flowlines. In rare cases high resolution flowlines were required and primarily along the Neches River. Carpenter's Bayou in Region H was carried over from the previous significant stream segment publication. The RESOLUTION field reveals source.

Lineage:

Process_Step:

Process_Description: Dataset copied.

Process_Date: 20090318

Process_Time: 16105200

Process_Step:

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation:

Process_Date: 20090319

Process_Time: 13094000

Process_Step:

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation:

Process_Date: 20090326

Process_Time: 12221100

Process_Step:

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation:

Process_Date: 20090707

Process_Time: 15104900

Process_Step:

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation:

C:\arcgis\SigStreams\FinalbyRWPG_Jul09\RegionC_NHDPlus

Process_Date: 20090707

Process_Time: 15340600

Process_Step:

Process_Description: Dataset copied.

Source_Used_Citation_Abbreviation:

C:\Data\NHD_ARC\Region_C_NHD\shapefiles_C\sig_segs_c

Process_Date: 20091109

Process_Time: 14041900

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: 156

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Map_Projection:

Map_Projection_Name: Lambert Conformal Conic

Lambert_Conformal_Conic:

Standard_Parallel: 27.416667

Standard_Parallel: 34.916667

Longitude_of_Central_Meridian: -100.000000

Latitude_of_Projection_Origin: 31.166667

False_Easting: 1000000.000000

False_Northing: 1000000.000000

Planar_Coordinate_Information:

Planar_Coordinate_Encoding_Method: coordinate pair

Coordinate_Representation:

Abscissa_Resolution: 0.000000

Ordinate_Resolution: 0.000000

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Vertical_Coordinate_System_Definition:

Altitude_System_Definition:

Altitude_Resolution: 0.000100

Altitude_Encoding_Method:

Explicit elevation coordinate included with horizontal coordinates

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal feature number.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain:

Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: Shape

Attribute_Definition: Feature geometry.

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Coordinates defining the features.

Attribute:

Attribute_Label: COMID

Attribute:

Attribute_Label: FDATE

Attribute:

Attribute_Label: RESOLUTION

Attribute:

Attribute_Label: GNIS_ID

Attribute:

Attribute_Label: GNIS_NAME

Attribute:

Attribute_Label: LENGTHKM

Attribute:

Attribute_Label: REACHCODE

Attribute:

Attribute_Label: FLOWDIR

Attribute:

Attribute_Label: WBAREACOMI

Attribute:

Attribute_Label: FTYPE

Attribute:

Attribute_Label: FCODE

Attribute:

Attribute_Label: SHAPE_LEN

Attribute:

Attribute_Label: ENABLED

Attribute:

Attribute_Label: TXREGION

Attribute_Definition: Texas Water Planning Region

Attribute_Definition_Source: TPWD

Overview_Description:

Distribution_Information:

Distributor:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Texas Parks and Wildlife Department

Contact_Person: Lynne Hamlin, M.S. GISP

Contact_Position: Water Resources Scientist

Contact_Address:

Address_Type: mailing and physical address

Address: 4200 Smith School Road

City: Austin

State_or_Province: Texas

Postal_Code: 78744

Country: USA

Contact_Voice_Telephone: 512-389-8790

Contact_Electronic_Mail_Address: Lynne.Hamlin@tpwd.state.tx.us

Hours_of_Service: 8am to 5pm

Contact_Instructions: email preferred

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 9.269

Fees: none

Ordering_Instructions:

Request by mail or email and include details for desired format and delivery address.
Contents will likely be available on the TPWD website sometime in 2009:
www.tpwd.state.tx.us.

Metadata_Reference_Information:

Metadata_Date: 20091214

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Texas Parks and Wildlife Department

Contact_Person: Lynne Hamlin, M.S. GISP

Contact_Position: Water Quantity Team

Contact_Address:

Address_Type: mailing and physical address

Address: 4200 Smith School Road

City: Austin

State_or_Province: Texas

Postal_Code: 78744

Country: USA

Contact_Voice_Telephone: 512-389-8790

Contact_Electronic_Mail_Address: Lynne.Hamlin@tpwd.state.tx.us

Contact_Instructions: email preferred

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Extensions:

Online_Linkage: [<http://www.esri.com/metadata/esriprof80.html>](http://www.esri.com/metadata/esriprof80.html)

Profile_Name: ESRI Metadata Profile

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