

# State Geospatial Data Coordination Procedure

## Texas

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### Purpose of the Procedure

Flood Insurance Studies search for geospatial data during Discovery tasks. If needed data are not available, studies might fund the collection of new data and would like to know about other organizations that might share in these costs. Detailed information about the role geospatial data coordination plays in studies is in the Geospatial Data Coordination

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Implementation Guide, which is available at  
<<https://hazards.fema.gov/femaportal/docs/GeoDataImplem.pdf>>.

Resources developed through FEMA's geospatial data coordination activities provide information about data and contacts for organizations that have geospatial data that cover large areas (like states) in which many studies are interested. Studies can avoid wasting time with dead-end searches and cold calls by starting with these proven sources of information.

One resource is this Geospatial Data Coordination Procedure. It outlines sources of geospatial data and contact information, preferences for base map data and state geospatial participation in flood insurance studies, information for the project Discovery stage, and other useful information for the State.

If you have questions about this procedure or other geospatial data coordination resources, contact the geospatial data coordination lead in your Regional Support Center (RSC):

Rigel Rucker, Geospatial Data Coordination Lead  
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## Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is either an image (orthophoto) or vector (road centerline) base map.

## Geospatial Data Coverage

Find below information about and links to statewide (and Federal agencies' national) geospatial datasets. The list is provided to save time during Discovery activities when building a list of candidate geospatial datasets available for the study; it is not a prescription of datasets that must be used in a Flood Insurance Study.

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## Major State Holdings

### *Orthophotos*

Dataset name: National Agriculture Imagery Program

Data currentness: 2012

Accuracy/Scale: horizontal accuracy matches within five meters of a reference orthophoto image

Ground sample resolution: 1-meter

Horizontal datum: UTM, NAD 83

Fee associated? Media Duplication Costs Only

Available for redistribution? Yes

Dataset source: <http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx>

Dataset contact: Farm Services Agency or TNRIIS at 512-463-8337

Notes: Full Coverage is available for state

### *Transportation (roads, railroads, and airports)*

Dataset name: StratMap Transportation

Data currentness: 2006; referenced to 2004 NAIP Imagery

Accuracy/Scale: Referenced features to the 2004 orthophotos

Horizontal datum: NAD 83

Fee associated? Media Duplication Costs Only

Available for redistribution? Yes

Are road names part of the dataset? Yes– 75% of features

Dataset source: <http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx>

Dataset contact: TNRIIS at 512-463-8337

Notes: Full Coverage Available

### *Hydrography (rivers, streams, lakes, and shorelines)*

Dataset name: Hydrography - NHD

Data currentness: 2008

Accuracy/Scale: 1:24,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Are hydrography names part of the dataset? Yes

Dataset source: <http://nhd.usgs.gov/data.html>

Dataset contact: USGS / EPA / TWDB; [NHD@usgs.gov](mailto:NHD@usgs.gov)

### *Political boundaries (county, municipal)*

Dataset name: StratMap Political Boundaries

Data currentness: variable

Accuracy/Scale: variable

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: <http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx>

Dataset contact: TNRIIS at 512-463-8337

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## *Publicly owned lands (national, state, and local parks, forests, etc)*

Dataset name: Parks  
Data currentness: variable  
Accuracy/Scale: variable  
Horizontal datum: NAD 83  
Fee associated? No  
Available for redistribution? No  
Dataset source: Texas General Land Office  
at: <http://www.glo.state.tx.us/gisdata/gisdata.html>  
Dataset contact: Jeff Perkins (512)463-5257

## *Cadastral (parcels)*

Texas does not have a statewide dataset for parcels. Parcel datasets must be obtained from county appraisal districts.

## *Extraterritorial jurisdiction (ETJ) boundaries*

Texas does not have a statewide dataset for ETJs. ETJ datasets must be obtained from cities.

## *Terrain (elevation)*

Dataset name: StratMap Elevation (contours digitized from 1:24,000-scale USGS topographic maps and derived 30-meter post spacing DEM)  
Data currentness: variable  
Accuracy/Scale: variable  
Vertical datum: NAVD 88, NGVD 29  
Fee associated? Media Duplication Costs only  
Available for redistribution? Yes  
Dataset source: <http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx>  
Dataset contact: TNRIS at 512-463-8337  
Notes: Full 30-meter DEM coverage is available for the state. LiDAR elevation data are available for a number of counties in Texas.

## *Data Distribution Process for State Data*

Data are available through

1. <http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx>
2. <http://www.glo.state.tx.us/gisdata/gisdata.html>

## **Useful Risk MAP Discovery Data Sources**

Preliminary information on Discovery data sources is provided in this document to reduce the level of effort needed on each subsequent Discovery data collection effort.

Coordination with local community sponsors for additional local data still remains an integral part of Discovery and local data should be used where appropriate.

The *National Discovery Data Coordination Procedure* document contains information on data resources available from other Federal agencies (OFAs), including those that FEMA maintains at the national level, and should be used in conjunction with this State Geospatial Data Coordination Procedure document. In addition, FEMA and its contractors

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have created a geospatial Discovery Data Repository to host data that are not readily accessible through direct sources such as Web sites or subscription services and/or are not updated on a frequent basis. Instructions on accessing the Discovery Data Repository are given in the *National Discovery Data Coordination Procedure* document.

Table 1 identifies data resources that are available at the regional and State levels, and also if there are no data available other than the national datasets. Resources in this table have been identified as appropriate for Discovery projects and may not represent the best data sources for FIRM production (please see the Major State Holdings section of this document for geospatial data that meets FIRM production requirements).

Table 1. Discovery Data Sources

Data	Data Source	Location
Watershed boundaries	National	See <i>National Discovery Data Coordination Procedure</i>
Jurisdictional boundaries	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	National	See <i>National Discovery Data Coordination Procedure</i>
Tribal land boundaries	National	See <i>National Discovery Data Coordination Procedure</i>
State lands	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	Texas General Land Office	<a href="http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html">http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html</a> Sterling Harris GIS Mapping Division Ph: 512-463-5034
Federal lands	National	See <i>National Discovery Data Coordination Procedure</i>
Major roads	Texas Department of Transportation	<a href="http://www.txdot.gov/">http://www.txdot.gov/</a> David Hohmann Bridge Division Director Ph: 512-416-2183
	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	National	See <i>National Discovery Data Coordination Procedure</i>

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Data	Data Source	Location
Streams	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	National	See <i>National Discovery Data Coordination Procedure</i>
Coastal Barrier Resource Areas	Texas General Land Office	<a href="http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html">http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html</a> Sterling Harris GIS Mapping Division Ph: 512-463-5034
	National	See <i>National Discovery Data Coordination Procedure</i>
Coordinated Needs Management Strategy	National	See <i>National Discovery Data Coordination Procedure</i>
Topographic/ bathymetric data	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	National	See <i>National Discovery Data Coordination Procedure</i>
AAL data from Hazus	National	See <i>National Discovery Data Coordination Procedure</i>
Coverage areas for known community and Tribal risk assessment data	Local	Local
Status of Hazard Mitigation Plans	National	See <i>National Discovery Data Coordination Procedure</i>
Flood control structure data	Texas State Soil and Water Conservation Board	<a href="http://www.tsswcb.texas.gov/en/floodcontrol">http://www.tsswcb.texas.gov/en/floodcontrol</a> John Foster Statewide Flood Control Grant Program Officer Ph: 254-733-2250
	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of stream gages	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	National	See <i>National Discovery Data Coordination Procedure</i>

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Data	Data Source	Location
Locations of past flood claims and repetitive loss properties	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of clusters of Letters of Map Change	National	See <i>National Discovery Data Coordination Procedure</i>
Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database	Local	Local
Areas of planned development	Local	Local
Areas of land use change datasets	Local	Local
Locations of ongoing projects or updated stream studies (e.g. highway improvements)	Local	Local
Locations of wave and tide gages	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of wind gages	National	See <i>National Discovery Data Coordination Procedure</i>
Proposed inland limit of the Primary Frontal Dune, if present	Local	Local
Locations of any beach nourishment or dune restoration projects	Local	Local
Comparison of preliminary stillwater elevations with effective stillwater elevations	Local	Local
Available effective study data	National	See <i>National Discovery Data Coordination Procedure</i>
Orthophotography	Texas Natural Resources Information System	<a href="http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx">http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx</a> TNRIS Ph: 512-463-8337
	National	See <i>National Discovery Data Coordination Procedure</i>
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Local	Local

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Data	Data Source	Location
Land use and soil information	Texas General Land Office	<a href="http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html">http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html</a> Sterling Harris GIS Mapping Division Ph: 512-463-5034
	National	See <i>National Discovery Data Coordination Procedure</i>
Reference points to locate areas with flooding issues	Local	Local
Hydraulic structures	Texas Department of Transportation	<a href="http://www.txdot.gov/">http://www.txdot.gov/</a> David Hohmann Bridge Division Director Ph: 512-416-2183
	National	See <i>National Discovery Data Coordination Procedure</i>
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	Texas General Land Office	<a href="http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html">http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html</a> Sterling Harris GIS Mapping Division Ph: 512-463-5034
	Texas State Soil and Water Conservation Board	<a href="http://www.tsswcb.texas.gov/en/floodcontrol">http://www.tsswcb.texas.gov/en/floodcontrol</a> John Foster Statewide Flood Control Grant Program Officer Ph: 254-733-2250
	National	See <i>National Discovery Data Coordination Procedure</i>
Local structure and topographic data from the existing hazard mitigation plans	Local	Local
Historic inundation areas and high water marks	Regional	Discovery Data Repository
Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway	National	See <i>National Discovery Data Coordination Procedure</i>

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Data	Data Source	Location
Locations of projects and structures completed or planned for FEMA Hazard Mitigation Assistance grant programs or mitigation funds from other agencies or entities, such as the Small Business Administration	National	See <i>National Discovery Data Coordination Procedure</i>
Other information on FEMA grants, as described in G&S Appendix I	Local	Local
Any data deficiencies identified in hazard mitigation plans	Local	Local
Information from FloodSmart on market penetration	National	See <i>National Discovery Data Coordination Procedure</i>
Community Assistance Visits / Community Assistance Contacts	National	See <i>National Discovery Data Coordination Procedure</i>
Community Rating System class information	National	See <i>National Discovery Data Coordination Procedure</i>
Information from other Federal agencies	National	See <i>National Discovery Data Coordination Procedure</i>
Information from State agencies, non-profit organizations, universities, etc.	Texas Association of Regional Councils	<a href="http://www.txregionalcouncil.org/display.php?page=regions_map.php">http://www.txregionalcouncil.org/display.php?page=regions_map.php</a>  <i>Note: Texas has 24 regional Council of Governments (COGs). The above URL links to each council's website. The COGs maintain a variety of local datasets.</i>
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	National	See <i>National Discovery Data Coordination Procedure</i>
Other known hazards with geographical boundaries (e.g. earthquake faults)	National	See <i>National Discovery Data Coordination Procedure</i>
Information on active disasters	National	See <i>National Discovery Data Coordination Procedure</i>
Campgrounds, recreational areas, emergency access routes, etc.	Texas General Land Office	<a href="http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html">http://www.glo.texas.gov/GLO/agency-administration/gis/gis-data.html</a> Sterling Harris GIS Mapping Division Ph: 512-463-5034
	National	See <i>National Discovery Data Coordination Procedure</i>

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Data	Data Source	Location
Any other data that might be appropriate	Local	Local

## Federal Nationwide Geospatial Data Holdings

Information about nationwide holdings and programs of Federal agencies is available from the Mapping Information Platform web site at <https://hazards.fema.gov/femaportal/docs/ProgFacts.pdf>.

## Finding and Accessing Other Existing Geospatial Data

Find below information about and links to ways of searching for additional geospatial data available for the State. These capabilities can be useful for finding geospatial data other than the statewide and Federal data listed above, including those of special governments, counties and parishes, municipalities, tribes, universities, and other organizations.

### Clearinghouses and Inventories for the State

StratMap: <http://www.tnris.state.tx.us/Programs/Stratmap/Index.aspx>

Texas General Land Office: <http://www.glo.state.tx.us/gisdata/gisdata.html>

Texas Geographic Information Council:

<http://www2.dir.state.tx.us/sponsored/tgic/Pages/overview.aspx>

Texas Commission on Environmental Quality: <http://www.tceq.state.tx.us/>

TexasColorado River Floodplain Coalition: <http://www.tcrfc.org>

### National Digital Orthophoto Program (NDOP) and National Digital Elevation Program (NDEP) Tracking Systems

These systems allow the search of orthophoto and elevation project information entered by federal and other organizations. To access the NDOP system, go to the NDOP web site at <http://www.ndop.gov> and follow the link “Project Tracking.” For the NDEP system, go to the NDEP web site at <http://www.ndep.gov> and follow the link “Project Tracking.”

### TED Query Tool

This tool provides access to information about Federal, state, and local government agency and private sector data holdings gathered by the Census Bureau.

### Geospatial One-Stop

Geospatial One-Stop, available at <http://www.geodata.gov>, provides access to geospatial data from many sources. Two parts of the site that should be investigated are the “data categories” for existing data and the “marketplace” for data that are planned or in-work and for potential partners for new data collection activities.

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## Working with People

### Useful State and Federal Contacts

The main contacts for the State's geospatial activities and Federal agencies' representatives in State are available on the Mapping Information Platform web site at: <<https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=TX>>.

### Involving the State's Geospatial Coordinator in Flood Studies

The coordinator participated in the development of this Procedure. The State has a strong Flood Plain Managers Association that coordinates on many issues concerning FEMA. Personnel from the TNRIIS StratMap program actively coordinate data collection and identification efforts with FEMA

### State Coordination Process for Building Geospatial Partnerships

The State has a GIS Coordination Council – Texas Geographic Information Council (TGIC) <http://www2.dir.state.tx.us/sponsored/tgic/Pages/overview.aspx>

### Finding Local Geospatial Contacts

Local contacts, including those from special government districts (for example, a regional planning commission); counties, parishes, or equivalent governments; tribes, municipal governments; and other organizations (for example, local universities) also have geospatial data that can help a Flood Insurance Study. Contact information is available from the FEMA archive and web searches at government link portals such as <<http://www.statelocalgov.net>>.

The state maintains a statewide GIS contacts list in the following formats:

- a. Spreadsheet
- b. Word Document

The information is available from the State GIS Coordinator listed at the beginning of this Procedure.

The levels of government in the list are:

- a. State
- b. Regional

The State has strong regional planning commissions/councils of government.

## Provide Feedback on This Procedure

When you find information in this Procedure or in other FEMA or State resources that are outdated, please tell the geospatial data coordination lead in the Regional Support Center what was wrong and the correct information (if you know it). Use the contact information for the lead listed in the section Purpose of the Procedure.

The lead will use your feedback to update this Procedure.