

# State Geospatial Data Coordination Procedure

## Oklahoma

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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  
RAMPP Regional Support Center 6  
(940) 735-3334  
[Rigel.Rucker@URS.com](mailto:Rigel.Rucker@URS.com)

## Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is an image (orthophoto) 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 pre-scoping and scoping 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.

### Major State Holdings

#### *Orthophotos*

Dataset name: NAIP Orthophotography  
Data currentness: 2003-2006, 2008, and 2010  
Accuracy/Scale: +/- 3 meters  
Ground sample resolution: 1 -2 meters ground sample distance  
Horizontal datum: NAD83  
Fee associated? No  
Available for redistribution? Yes  
Dataset source: National Aerial Imagery Program (NAIP)  
Dataset contact: Oklahoma Geographic Information Council  
[http://www.okmaps.onenet.net/digital\\_ortho.htm](http://www.okmaps.onenet.net/digital_ortho.htm)

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Notes: The State of Oklahoma currently has statewide digital orthophotos for the years 2003-2006, 2008, and 2010. The 2003, 2008, and 2010 orthophotos have a resolution of 1 meter while the 2004-2006 orthophotos are 2 meter. All images have been flown leaf on and are compressed using Mr. Sid into one file per county. The files can be downloaded from the Council's ftp site.

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

Dataset name: ACOG Vector Road Dataset

Data currentness: 20110513

Accuracy/Scale: The road centerline file was created by incorporating many different sources. These include atlas books provided by 9-1-1 ACOG, parcel data provided by individual counties, and hard copy and digital resources received from municipalities. Streets were digitized when necessary from spatially accurate (+/- 5 meters) aerial photography. Fieldwork gathering GPS data was utilized where other resource data was not sufficient. Some municipalities within ACOG provided GeoComm with road centerline file that meet the standards necessary for the final data set.

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Data shall not be shared without written permission of the 9-1-1 ACOG.

Are road names part of the dataset? Yes

Dataset source: Geocomm, 601 W Saint Germain St, St Cloud MN 56301. Available for download from Center for Spatial Analysis at: <http://geo.ou.edu/DataFrame.htm>

Dataset contact: ACOG, Alice Nicely (405) 234-2264 [abucekt@acogok.org](mailto:abucekt@acogok.org)

Dataset name: Oklahoma Airports and Railroads

Data currentness: 2002

Accuracy/Scale: Unknown

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are road names part of the dataset? N/A

Dataset source: Unknown

Dataset contact: Oklahoma Center for Geospatial Information  
<http://www.ocgi.okstate.edu/>

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

Dataset name: Oklahoma Lakes and Streams

Data currentness: 2003

Accuracy/Scale: Stream networks of Oklahoma derived from the USGS. The file has been clipped to only include streams inside Oklahoma.

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are hydrography names part of the dataset? Yes

Dataset source: USGS

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Dataset contact: Oklahoma Center for Geospatial Information  
<http://www.ocgi.okstate.edu/>

## *Political boundaries (county, municipal)*

Dataset name: State-wide Municipal Boundaries

Data currentness: 20110216

Accuracy/Scale: The municipal boundaries were originally derived from TIGER/Line1998 files of the Bureau of the Census. TIGER/Line files were originally digitized at a scale of 1:100,000 to an accuracy of 160 ft. Municipal boundaries were verified against maps or digital files provided by the Oklahoma Tax Commission or other concerned authorities. Updates and corrections to those boundaries are continually made as necessary.

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are boundary names part of the dataset? Yes

Dataset source: Center for Spatial Analysis (University of Oklahoma) at:

<http://geo.ou.edu/DataFrame.htm>

Dataset contact: Center for Spatial Analysis, Azhar Mahmood, 3100 Monitor Suite 180, Norman, OK 73072, (405)325-0301 Fax (405)579-5985, [azmahmood@ou.edu](mailto:azmahmood@ou.edu)

Notes: This is an ArcView shapefile of State-wide municipal boundaries for Oklahoma State. Boundaries are based on information provided by the Oklahoma Tax Commission. This State-wide shape file is created by merging the individual municipal boundary coverages for all the seventy-seven counties in the State.

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

No statewide data available.

## *Public land survey system (PLSS) (township and section lines)*

Dataset name: Section Lines/Polygons for Oklahoma, Township Lines/Polygons for Oklahoma

Data currentness: 2003

Accuracy/Scale: Unknown

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Dataset source: Dataset from the Oklahoma Department of Commerce

Dataset contact: Oklahoma Center for Geospatial Information

<http://www.ocgi.okstate.edu/>

## *Cadastral (parcels)*

No statewide data available – possibly available locally.

## *Terrain (elevation)*

Dataset name: USGS Digital Elevation Models

Data currentness: Unknown

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Accuracy/Scale: Vertical accuracy of 1/3<sup>rd</sup> arc-second (approximately 10 meters)

Vertical datum: NAVD88

Fee associated? No

Available for redistribution? Yes

Dataset source: USGS

Dataset contact: Available for download from <http://nationalmap.gov/viewer.html>

## *Data Distribution Process for State Data*

Oklahoma Center for Geospatial Information: <http://www.seic.okstate.edu/>

Oklahoma Geographic Information Council: <http://www.okmaps.onenet.net/>

## 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 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	Center for Spatial Analysis - University of Oklahoma	<a href="http://geo.ou.edu/DataFrame.htm">http://geo.ou.edu/DataFrame.htm</a> Center for Spatial Analysis Azhar Mahmood (405) 325-0301 <a href="mailto:azmahmood@ou.edu">azmahmood@ou.edu</a>
	National	See <i>National Discovery Data Coordination Procedure</i>

# State Geospatial Data Coordination Procedure

Data	Data Source	Location
Tribal land boundaries	National	See <i>National Discovery Data Coordination Procedure</i>
State lands	Center for Spatial Analysis - University of Oklahoma	<a href="http://geo.ou.edu/DataFrame.htm">http://geo.ou.edu/DataFrame.htm</a> Center for Spatial Analysis Azhar Mahmood (405) 325-0301 <a href="mailto:azmahmood@ou.edu">azmahmood@ou.edu</a>
	Oklahoma Center for Geospatial Information	<a href="http://www.ocgi.okstate.edu/">http://www.ocgi.okstate.edu/</a> Department of Geography Oklahoma State University Stillwater, Oklahoma 74078 E-Mail: <a href="mailto:allen.finchum@okstate.edu">allen.finchum@okstate.edu</a>
Federal lands	National	See <i>National Discovery Data Coordination Procedure</i>
Major roads	Oklahoma Department of Transportation	<a href="http://www.okladot.state.ok.us/">http://www.okladot.state.ok.us/</a> Gary Ridley Director Ph: 512-416-2183
	Association of Central Oklahoma Governments	<a href="http://geo.ou.edu/DataFrame.htm">http://geo.ou.edu/DataFrame.htm</a> ACOG Vector Road Dataset Doug Rex (405) 234-2264 <a href="mailto:drex@acogok.org">drex@acogok.org</a>
	Oklahoma Center for Geospatial Information	<a href="http://www.ocgi.okstate.edu/">http://www.ocgi.okstate.edu/</a>
Streams	National	See <i>National Discovery Data Coordination Procedure</i>
	Oklahoma Water Resources Board	<a href="http://www.owrb.ok.gov/maps/data/owrbdata.php">http://www.owrb.ok.gov/maps/data/owrbdata.php</a> Michael Sughru GIS Coordinator Ph: 405-742-1249  <a href="http://www.ocgi.okstate.edu/">http://www.ocgi.okstate.edu/</a>
Coastal Barrier Resource Areas	N/A	N/A
Coordinated Needs Management Strategy	National	See <i>National Discovery Data Coordination Procedure</i>

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Data	Data Source	Location
Topographic/ bathymetric data	Oklahoma Conservation Commission	<a href="http://www.ok.gov/conservation/Digital_Ortophographs/index.html">http://www.ok.gov/conservation/Digital_Ortophographs/index.html</a> Mike Sharp Acting State Geographic Information Coordinator Ph: (405) 521-4813
	Center for Spatial Analysis - University of Oklahoma	<a href="http://csa.ou.edu/">http://csa.ou.edu/</a> Center for Spatial Analysis Azhar Mahmood (405) 325-0301 <a href="mailto:azmahmood@ou.edu">azmahmood@ou.edu</a>
	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	Oklahoma Conservation Commission	<a href="http://www.ok.gov/conservation/Agency_Divisions/Conservation_Programs_Division/Flood_Control_Programs/">http://www.ok.gov/conservation/Agency_Divisions/Conservation_Programs_Division/Flood_Control_Programs/</a> Mike Sharp Acting State Geographic Information Coordinator Ph: (405) 521-4813
	National	See <i>National Discovery Data Coordination Procedure</i>
Locations of stream gages	Oklahoma Water Resources Board	<a href="http://www.owrb.ok.gov/maps/data/owrbdata.php">http://www.owrb.ok.gov/maps/data/owrbdata.php</a> Michael Sughru GIS Coordinator Ph: 405-742-1249
	National	See <i>National Discovery Data Coordination Procedure</i>
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>

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Data	Data Source	Location
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	N/A	N/A
Locations of wind gages	N/A	N/A
Proposed inland limit of the Primary Frontal Dune, if present	N/A	N/A
Locations of any beach nourishment or dune restoration projects	N/A	N/A
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	Center for Spatial Analysis - University of Oklahoma  Oklahoma Geographic Information Council  National	<a href="http://geo.ou.edu/DataFrame.htm">http://geo.ou.edu/DataFrame.htm</a> Center for Spatial Analysis Azhar Mahmood (405) 325-0301 <a href="mailto:azmahmood@ou.edu">azmahmood@ou.edu</a>  <a href="http://www.okmaps.onenet.net/digital_ortho.htm">http://www.okmaps.onenet.net/digital_ortho.htm</a>  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	Center for Spatial Analysis - University of Oklahoma  National	<a href="http://geo.ou.edu/DataFrame.htm">http://geo.ou.edu/DataFrame.htm</a> Center for Spatial Analysis Azhar Mahmood (405) 325-0301 <a href="mailto:azmahmood@ou.edu">azmahmood@ou.edu</a>  <i>See National Discovery Data Coordination Procedure</i>
Reference points to locate areas with flooding issues	Local	Local
Hydraulic structures	Oklahoma Department of Transportation  National	<a href="http://www.okladot.state.ok.us/">http://www.okladot.state.ok.us/</a>  <i>See National Discovery Data Coordination Procedure</i>
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	N/A	N/A
Local structure and topographic data from the existing hazard mitigation plans	Oklahoma Department of Transportation	<a href="http://www.okladot.state.ok.us/">http://www.okladot.state.ok.us/</a>
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	<i>See National Discovery Data Coordination Procedure</i>
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	<i>See National Discovery Data Coordination Procedure</i>
Other information on FEMA grants, as described in G&S Appendix I	Local	Local

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Data	Data Source	Location
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.	Department of Environmental Quality	<a href="http://maps.scigis.com/deq_wq/">http://maps.scigis.com/deq_wq/</a> David Pruitt Water Quality Division
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.	Center for Spatial Analysis - University of Oklahoma	<a href="http://geo.ou.edu/DataFrame.htm">http://geo.ou.edu/DataFrame.htm</a> Center for Spatial Analysis Azhar Mahmood (405) 325-0301 <a href="mailto:azmahmood@ou.edu">azmahmood@ou.edu</a>
	National	See <i>National Discovery Data Coordination Procedure</i>
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>>.

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## 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

Oklahoma Center for Geospatial Information: <http://www.seic.okstate.edu/>

Center for Spatial Analysis: <http://geo.ou.edu/DataFrame.htm>

### 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.

## Working with People

### Useful State and Federal Contacts

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

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

The state has strong involvement with FEMA on Discovery efforts related to identifying base map and terrain data suitable for flood mapping purposes.

### State Coordination Process for Building Geospatial Partnerships

Oklahoma has two geospatial data centers to promote data sharing, listed above in Clearinghouses and Inventories for the State.

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## 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 has a strong Flood Plain Managers Association that coordinates on many issues concerning FEMA.

The State has regional planning commissions/councils of government.

Tribal Governments and lands have generally not been mapped.

## 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.

The lead will use your feedback to update this Procedure.