

State Geospatial Data Coordination Procedure

Oklahoma

FINAL

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FEMA

State Geospatial Data Coordination Procedure

Oklahoma

Table of Contents

Purpose of the Procedure	1
Default Flood Hazard Base Map for the State	1
Geospatial Data Coverage	1
Major State Holdings	1
Orthophotos	1
Transportation (roads, railroads, and airports)	2
Hydrography (rivers, streams, lakes, and shorelines).....	3
Political boundaries (county, municipal).....	3
Publicly owned lands (national, state, and local parks, forests, etc).....	3
Public land survey system (PLSS) (township and section lines).....	4
Cadastral (parcels).....	4
Terrain (elevation)	4
Data Distribution Process for State Data	4
Useful Risk MAP Discovery Data Sources	5
Federal Nationwide Geospatial Data Holdings	11
Finding and Accessing Other Existing Geospatial Data	11
Clearinghouses and Inventories for the State.....	11
3D Elevation Program.....	11
Geospatial One-Stop.....	11
Working with People	12
Useful State and Federal Contacts	12
Involving the State’s Geospatial Coordinator in Flood Studies	12
State Coordination Process for Building Geospatial Partnerships.....	12
Finding Local Geospatial Contacts.....	12
Provide Feedback on This Procedure	12

State Geospatial Data Coordination Procedure

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 portal, which is available at

https://riskmapportal.msc.fema.gov/riskmap_usergroups/GeoCoord/default.aspx

(password required).

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):

Michael Johnson, Geospatial Data Coordination Lead

Compass Regional Support Center (RSC) 6

(512) 454-4797

michael.johnson@acem.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

State Geospatial Data Coordination Procedure

Data currentness: 2017

Accuracy/Scale: +/- 5 meters

Ground sample resolution: 1 meter ground sample distance

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Dataset source: Natural Resource Conservation Service (NRCS) National Aerial Imagery Program (NAIP)

Dataset contact: Mike Sharp, Office of Geographic Information, (405) 521-4813, mike.sharp@conservation.ok.gov. Oklahoma Geographic Information Council http://www.okmaps.onenet.net/digital_ortho.htm

Notes: The State of Oklahoma currently has statewide digital orthophotos for the years 2003-2006, 2008, 2010, 2013, and 2015. The 2003, 2008, 2010, 2013, and 2015 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 MrSID into one file per county. The files can be downloaded from the Council's ftp site.

Transportation (roads, railroads, and airports)

Dataset name: Roads

Data currentness: 8/21/2020

Accuracy/Scale: The road centerline file was created by the U.S. Department of Commerce, U.S. Census Bureau, Geography Division. Roads are part of the TIGER/Line file and contain MTFCC data.

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

Are road names in TIGER format? Yes

Dataset source: U.S. Census Bureau

Available for download from Center for Spatial Analysis at: <https://csagis-uok.opendata.arcgis.com/>

Dataset contact: Tanya Woody twoody@ou.edu

Dataset name: Oklahoma Railroads

Data currentness: 7/17/2020

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

State Geospatial Data Coordination Procedure

Dataset contact: Center for Spatial Analysis

<http://www.csa.ou.edu/>

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Oklahoma Rivers

Data currentness: 9/2017

Accuracy/Scale: Unknown.

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

Are hydrography names part of the dataset? Yes

Dataset source: Oklahoma Water Resources Board

Dataset contact: Oklahoma Water Resources Board

<https://csagis-uok.opendata.arcgis.com/>

Political boundaries (county, municipal)

Dataset name: Municipal Boundaries

Data currentness: 8/2020

Accuracy/Scale: The municipal boundaries were originally derived from TIGER/Line 1998 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: <https://csagis-uok.opendata.arcgis.com/>

Dataset contact: Center for Spatial Analysis, Tanya Woody twoody@ou.edu

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

Dataset name: Oklahoma Indian Tribes

Data currentness: 4/2010

Accuracy/Scale: Unknown

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? Yes

State Geospatial Data Coordination Procedure

Dataset source: Oklahoma Office of Geographic Information
Dataset contact: Mike Sharp, (405) 521-4813, mike.sharp@conservation.ok.gov.
Download from Oklahoma Office of Geographic Information
<https://okmaps.org/OGI/search.aspx>

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

Dataset name: Section Lines/Polygons for Oklahoma, Township Lines/Polygons for Oklahoma
Data currentness: 2006
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 Geographic Information Council

Cadastral (parcels)

No statewide data available – possibly available locally.

Terrain (elevation)

Dataset name: USGS Digital Elevation Models
Data currentness: Varies
Accuracy/Scale: Vertical accuracy of 1/3rd 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>

Dataset Name: NRCS Digital Elevation Models and LAS
Data Currentness: 2009-2010
Accuracy/Scale: 2 meter
Vertical datum: NAVD88
Fee associated? No
Available for redistribution? Yes
Dataset Source: NRCS
Dataset contact: Available for download from http://okmaps.onenet.net/digital_data.htm

Data Distribution Process for State Data

University of Oklahoma Center for Spatial Analysis: <http://csa.ou.edu>

Oklahoma Office of Geographic Information: <http://ogi.state.ok.us/ogi/>

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

State Geospatial Data Coordination Procedure

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 meet 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	https://csagis-uok.opendata.arcgis.com/ Center for Spatial Analysis Tanya Woody twoody@ou.edu
	National	See <i>National Discovery Data Coordination Procedure</i>
Tribal land boundaries	National	See <i>National Discovery Data Coordination Procedure</i>
State lands	Center for Spatial Analysis- University of Oklahoma	https://csagis-uok.opendata.arcgis.com/ Center for Spatial Analysis Tanya Woody twoody@ou.edu
	Oklahoma Office of Geographic Information	https://okmaps.org/ Department of Geography Oklahoma State University Stillwater, Oklahoma 74078 mike.sharp@conservation.ok.gov

State Geospatial Data Coordination Procedure

Data	Data Source	Location
Federal lands	National	See <i>National Discovery Data Coordination Procedure</i>
Major roads	Oklahoma Department of Transportation	http://www.okladot.state.ok.us/ Mike Patterson Director (405) 522-8000
	Association of Central Oklahoma Governments (ACCOG)	http://www.acogok.org/ ACOG Vector Road Dataset Alicia Nicely (405) 234-2264 abucekt@acogok.org
	Oklahoma Office of Geographic Information	https://okmaps.org/
	National	See <i>National Discovery Data Coordination Procedure</i>
Streams	Oklahoma Water Resources Board	http://www.owrb.ok.gov/maps/data/owrbdata.php Tracy Scopel GIS Coordinator (405) 530-8800 tracy.scopel@owrb.ok.gov
	Oklahoma Office of Geographic Information	https://okmaps.org/
	National	See <i>National Discovery Data Coordination Procedure</i>
Coastal Barrier Resource Areas	N/A	N/A
Coordinated Needs Management Strategy	National	See <i>National Discovery Data Coordination Procedure</i>
Topographic/ bathymetric data	Oklahoma Office of Geographic Information	https://okmaps.org/
	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

State Geospatial Data Coordination Procedure

Data	Data Source	Location
Status of Hazard Mitigation Plans	National	See <i>National Discovery Data Coordination Procedure</i>
Flood control structure data	Oklahoma Office of Geographic Information	https://okmaps.org/ Mike Sharp State Geographic Information Coordinator (405) 521-4813
	Oklahoma Water Resources Board	http://www.owrb.ok.gov/maps/data/owrbdata.php Tracy Scopel GIS Coordinator (405) 530-8800 tracy.scopel@owrb.ok.gov
Locations of stream gages	National	See <i>National Discovery Data Coordination Procedure</i>
	Oklahoma Water Resources Board	http://www.owrb.ok.gov/maps/data/owrbdata.php Tracy Scopel GIS Coordinator (405) 530-8800 tracy.scopel@owrb.ok.gov
Locations of past flood claims and repetitive loss properties	National	See <i>National Discovery Data Coordination Procedure</i>
	Region	Available through coordination with Region 6 RSC: Rachel Mollenhoff 13355 Noel Road Dallas, TX 75240 rachel.mollenhoff@aecom.com
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

State Geospatial Data Coordination Procedure

Data	Data Source	Location
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	N/A	N/A
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	https://csagis-uok.opendata.arcgis.com/ Center for Spatial Analysis Azhar Mahmood (405) 325-0301 azmahmood@ou.edu www.okmaps.onenet.net/digital_ortho.htm See <i>National Discovery Data Coordination Procedure</i>
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Local	Local
Land use and soil information	National	See <i>National Discovery Data Coordination Procedure</i>
Reference points to locate areas with flooding issues	Local	Local

State Geospatial Data Coordination Procedure

Data	Data Source	Location
Hydraulic structures	Oklahoma Department of Transportation National	http://www.okladot.state.ok.us/ <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	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	<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	Local	Local
Any data deficiencies identified in hazard mitigation plans	Local	Local
Information from FloodSmart on market penetration	National	<i>See National Discovery Data Coordination Procedure</i>
Community Assistance Visits / Community Assistance Contacts	National	<i>See National Discovery Data Coordination Procedure</i>
Community Rating System class information	National	<i>See National Discovery Data Coordination Procedure</i>

State Geospatial Data Coordination Procedure

Data	Data Source	Location
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	http://www.deq.state.ok.us/ David Pruitt Environmental Program Manager, 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	https://csagis-uok.opendata.arcgis.com/ Center for Spatial Analysis Azhar Mahmood (405) 325-0301 azmahmood@ou.edu
	National	See <i>National Discovery Data Coordination Procedure</i>
Any other data that might be appropriate	Local	Local

State Geospatial Data Coordination Procedure

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/ProgFacts1.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

Oklahoma Office of Geographic Information: <https://okmaps.org/>

Center for Spatial Analysis: <https://csagis-uok.opendata.arcgis.com/>

3D Elevation Program

The U.S. Geological Survey (USGS) National Geospatial Program is developing the [3D Elevation Program \(3DEP\)](#) to respond to growing needs for high-quality topographic data and for a wide range of other three-dimensional (3D) representations of the Nation's natural and constructed features. The primary goal of 3DEP is to systematically collect 3D elevation data in the form of light detection and ranging (lidar) data over the conterminous United States, Hawaii, and the U.S. territories, with data acquired over an 8-year period. Interferometric synthetic aperture radar (IfSAR) data will be acquired for Alaska, where cloud cover and remote locations preclude the use of lidar in much of the State. The 3DEP initiative is based on the results of the National Enhanced Elevation Assessment that documented more than 600 business uses across 34 Federal agencies, all 50 States, selected local government and Tribal offices, and private and nonprofit organizations.

Geospatial One-Stop

Geospatial One-Stop, available at <http://www.data.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.

State Geospatial Data Coordination Procedure

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.

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 Oklahoma Department of Environmental Quality (DEQ) houses an online GIS Data Viewer at <http://www.deq.state.ok.us/>. 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 RSC 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.