Arizona

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Purpose of the Procedure

Flood insurance studies search for geospatial data during pre-scoping and scoping 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 Implementation Guide*, which is available at https://hazards.fema.gov/femaportal/docs/GeoDataImplem.pdf>, and in *Scoping*

Guidelines: Pre-scoping and the Scoping Meeting, which is available through the Regional Management Center (RMC).

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 studies, 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 Management Center:

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We appreciate the help of those who reviewed this document, in particular

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Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is USGS Digital Orthophoto Quarter Quad imagery. Also encouraged for use is recent, black/white, county-wide orthophotography data provided by local government to FEMA as public domain data. The resolution must be 1 meter resolution or better.

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: Arizona 1-meter color imagery statewide except two counties (Cochise and

Maricopa)

Data currentness: 2005 Accuracy/Scale: 1:12,000

Ground sample resolution: 1 meter

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: Arizona State Cartographer's Office at http://sco.az.gov/

Dataset contact: Arizona State Cartographer's Office, Tony Maslowicz, (602) 542-3249 Notes: The Arizona State Cartographer's Office (SCO) and USGS worked in conjunction with a subcontractor to the U.S. Bureau of Census on the development of natural color 1-meter digital orthoimagery over 13 of the 15 counties in Arizona (Cochise and Maricopa Counties were excluded). USGS has obtained the release of this data into the public domain.

Transportation (roads, railroads, and airports)

Dataset name: Streets from Arizona State Land Department (ASLD)

Data currentness: 2001 Accuracy/Scale: 1:100,000

Horizontal datum: NAD 83 HARN

Fee associated? No

Available for redistribution? Yes

Are road names part of the dataset? Yes Dataset source: http://agic.az.gov/portal

Dataset contact: Arizona State Lands Department at

http://www.land.state.az.us/alris/index.html

Notes: The Arizona State Land Department (ASLD) obtained the 2000 TIGER data already processed from ESRI. ASLD added three new fields to the ESRI data: CLASS, CATEGORY and NEW_CLASS for road generalization purposes.

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Streams from Arizona State Land Department

Data currentness: 1998 Accuracy/Scale: 1:100,000 Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Are hydrography names part of the dataset? Yes

Dataset source: http://agic.az.gov/portal

Dataset contact: Arizona State Lands Department at

http://www.land.state.az.us/alris/index.html

Notes: Converted in the fall of 1988 from USGS 1:100,000 scale DLG data to ARC format. Since then, multiple and extensive corrections have taken place. Early on, several

Arizona agencies were part of rectification including: attributes, features, edgematching and the re-tiling of the data into the USGS Hydrologic Unit Code (HUC) library tiling format. The Environmental Protection Agency (EPA) has since added critical attributes to the Arizona database, including: A nationally recognized management link code (the Reach Id), names, and hydrologic information. Arizona has enhanced the theme further by adding ergonomic Descriptive Attribute Codes, Cartographic Order, more Names, and intense Quality Assurance Controls.

Political boundaries (county, municipal)

Dataset name: Counties and cities from Arizona State Land Department

Data currentness: County data published in 1988, city data published as updates occur

(approximately quarterly) Accuracy/Scale: 1:100,000

Horizontal datum: NAD 83 HARN

Fee associated? No

Available for redistribution? Yes

Dataset source: http://agic.az.gov/portal

Dataset contact: Arizona State Lands Department at

http://www.land.state.az.us/alris/index.html

Notes: N/A

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

Dataset name: Land ownership from Arizona State Land Department

Data currentness: Federal Lands updated 1-2 times a year. State Trust lands updated

quarterly.

Accuracy/Scale: Unknown

Horizontal datum: NAD 83 HARN

Fee associated? No

Available for redistribution? Yes

Dataset source: http://agic.az.gov/portal

Dataset contact: Arizona State Lands Department at

http://www.land.state.az.us/alris/index.html

Notes: The LAND data set was first started in 1984 and updated in the spring 1988 by the State Land Department Forestry Division and ALRIS. The PLSS data originated from the Department of Transportation (ADOT) and USGS Quad sheets. The data was then projected into ARC/INFO format and edited using the procedures from the ASLD 'Land Status Map Digitizing Procedure' guide. The data set covers the entire State of Arizona. This coverage is updated by two agencies. Federal boundaries are done by the Bureau of Land Management, and State Land and other boundaries are done by the Arizona State Land Department.

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

Dataset name: Township, Range, and Section Grid Lines from Arizona State Land

Department

Data currentness: 1988 Accuracy/Scale: Unknown Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: http://agic.az.gov/portal

Dataset contact: Arizona State Lands Department at

http://www.land.state.az.us/alris/index.html

Notes:

Cadastral (parcels)

No coverage available.

Notes: Compilation of statewide cadastral dataset has been proposed. Currently, some individual counties maintain a database.

Extraterritorial jurisdiction (ETJ) boundaries

No coverage available.

Terrain (elevation)

Dataset name: USGS DEM Data currentness: Varies Accuracy/Scale: 1:24,000 Vertical datum: NGVD 29 Fee associated? No

Available for redistribution? Yes

Dataset source: http://data.geocomm.com/dem/demdownload.html

Dataset contact: http://data.geocomm.com/dem/

Notes:

Data Distribution Process for State Data

Arizona Electronic Atlas: http://atlas.library.arizona.edu/data.html: All data found in the Atlas is available for download with the exception of the Census and Roads data.

Arizona Land Resource Information System: http://www.land.state.az.us/alris/: Data are provided to public and non-profit agencies free of charge. Private organizations can receive ALRIS data free only if they are contracting with a public entity, otherwise there is a reasonable fee. Private and nonprofit organizations must submit data request forms.

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

Arizona Geographic Information Council (AGIC): http://agic.az.gov/portal: The AGIC was established by Executive Order 89-24 as Arizona's primary forum and oversight group for geographic information and geographic information technology issues and coordination efforts. Through cooperation and partnerships AGIC facilitates the acquisition, exchange and management of geographic information and technology for the State of Arizona to benefit state agencies and the Arizona GIS community. To facilitate data exchange, AGIC along with the Arizona State Cartographer's Office and the Arizona Land Resource Information System created the AGIC Geodata Portal. The Portal provides downloadable geospatial data for non-commercial uses.

Arizona Land Resource Information System (ALRIS): http://www.land.state.az.us/alris/: The ALRIS was established by the Arizona State Legislature in 1982. The goal of ALRIS is to provide a geographic information system for public agencies in the state, provide training and consultation in the use of the system, related technical services and limited production services to system users. Since its initiation, the ALRIS program has provided a wide variety of support services for Arizona's GIS community. The ALRIS program goals are approached by conducting five major types of program activities, which include:

- Database Development & Maintenance
- GIS Hardware & Software Support
- Education Consulting & Information
- GIS Software Development
- ALRIS: GIS Clearinghouse The Clearinghouse data is also available on-line via the AGIC Geodata Portal.

Arizona State Cartographer's Office (SCO): http://sco.az.gov/: The Arizona State Cartographer's Office (SCO) was established by the Arizona State Legislature in 1987. The goal of the SCO is to improving access to GIS information and geospatial data. The SCO website has links to other major GIS sites in Arizona and throughout the nation. Many of the listed sites are links to downloadable geospatial data, GIS services, Internet Map Services and information about GIS. The Arizona State Cartographer's Office serves the Arizona GIS community by:

- establishing a clearinghouse of information about data resources
- developing web-based information services
- improving access to GIS databases
- preparing GIS policies and standards
- coordinating the development of common projects

• providing support for the Arizona Geographic Information Council

Arizona GIS Data Survey: http://agic.az.gov/survey03/: The AGIC Homeland Security Committee produced the Arizona GIS Data Survey with the assistance of a grant from the Federal FEMA, entitled Arizona Geospatial Resources to Support Critical Infrastructure and Homeland Security. The purpose of this survey was to build the foundation for GIS data and knowledge sharing for homeland security and other emergency response purposes in Arizona. The intention of this survey was to identify producers and users of geospatial data in Arizona, the resources that are available for sharing, the level of data documentation through metadata (data about data), and individuals who can serve as a point of contact for your department or organization. The results of the survey are a compilation of the contact information provided by respondents and data layer information for the queried organizations.

Arizona Electronic Atlas: http://atlas.library.arizona.edu/: The Arizona Electronic Atlas is an innovative interactive atlas that allows one to create, manipulate, and download accurate and current maps and data. The Atlas was designed for the general user, and with features and data the expert will find useful as well.

RangeView, University of Arizona: http://rangeview.arizona.edu/: The RangeView website provides applications for viewing, animating, and analyzing satellite imagery in order to monitor vegetation dynamics through time and across landscapes. RangeView is simple to use and valuable for natural resource managers, land owners, educators, and researchers.

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. It is available through the geospatial data coordination lead at the Regional Management Center.

Geospatial One-Stop

Geospatial One-Stop, available at <<u>http://www.geodata.gov</u>>, 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 State are available on the Mapping Information Platform web site at https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=AZ

Involving the State's Geospatial Coordinator in Flood Studies

The RMC has established initial contact with the AZ NSGIC Representative to present an overview of FEMA's Map Modernization Program. In the context of Geospatial Data Coordination, the RMC has worked with Arizona State Cartographer's Office to obtain information on upcoming imagery acquisition.

State Coordination Process for Building Geospatial Partnerships

Through cooperation and partnerships AGIC facilitates the acquisition, exchange and management of geographic information and technology for the State of Arizona to benefit state agencies and the Arizona GIS community.

Arizona Geographic Information Council 1616 West Adams Street Phoenix, Arizona 85007 602-542-4060 agic@land.az.gov http://agic.az.gov/

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.

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 Management

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.