State Geospatial Data Coordination Procedure

New Mexico

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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*

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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 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 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.

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Major State Holdings

Orthophotos

Dataset name: New Mexico 2005-06 Orthophotos (2006 DOQQ)
Data currentness: 10/13/2006
Accuracy/Scale: 1:12,000 scale maps – 10.16 meters radial error at a 90% probability.
(The DOQQ's have not been field checked by a third party for objective accuracy against ground features, but over 90% of permanent identifiable locations in the image have been sampled and found to adhere to within 3.0 meters of preexisting linework and imagery.)
Ground sample resolution: 1-meter ground sample distance (GSD)
Horizontal datum: NAD83
Fee associated? No, the compressed data can be downloaded for free (see notes).
Available for redistribution? Yes
Dataset source: http://rgis.unm.edu/intro.cfm
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or clearinghouse@edac.unm.edu
Notes: (1) The 2005-06 DOQQs are available in two formats. These metadata describe both file types. The GeoTIFFs are uncompressed files, and due to file size limitations, are not available for downloading from the Resource Geographic Information System Program (RGIS) website. Therefore, they are available only for a fee through the custom order process described in the Distribution section of these metadata. The Enhanced Compressed Wavelet (ECW) files have been created from the GeoTIFFs and are a 1:15 compression of the GeoTIFF file. The compression creates a smaller file size that can be downloaded easily from the RGIS website and are readily available.
(2) Because there were gaps and shadow issue, some of the DOQQs were flown/reflown in 2006 to complete the coverage of the state.
(3) The NM Statewide Orthophotography Project imagery was flown during the irrigation season, hence leaf-on for deciduous vegetation. The ground might be obscured in leaf-on imagery. While such imagery can be used as a base maps, the imagery must be checked to ensure that it provides a clear view of important features on the ground for areas of significance for flooding (see Appendix C of the Geospatial Data Coordination Implementation Guide for more discussion). Also see the "Federal Mapping Program Factsheets" available through "Tools & Links" on the MIP web site.

Transportation (roads, railroads, and airports)

Dataset name: County E-911 Road Data
Data currentness: Varies from County to County
Accuracy/Scale: Varies from County to County
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Are road names part of the dataset? Yes
Dataset source: RGIS at http://rgis.unm.edu/e911.cfm
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or clearinghouse@edac.unm.edu

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: USGS-maintained National Hydrography Data set (NHD) for CA
Data currentness: 2005
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/
Dataset contact: NHD@usgs.gov
Notes: Also see the "Federal Mapping Program Factsheets" available through "Tools & Links" on the MIP web site.

Political boundaries (county, municipal)

Dataset name: TIGER 2000 and TIGER 1990
Data currentness: 2000
Accuracy/Scale: 1:100,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: RGIS at http://rgis.unm.edu/loader_div.cfm?theme=Boundaries
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or
clearinghouse@edac.unm.edu

Dataset name: Indian reservations (from the data set named "Indian and Military Reservation Boundaries")
Data currentness: 1997
Accuracy/Scale: 1:100,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: RGIS at http://rgis.unm.edu/loader_div.cfm?theme=Boundaries
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or
clearinghouse@edac.unm.edu
Notes: Created from combining Census data for Indian Lands, with BLM Land Status data listed as Military Reservations.

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

Dataset name: Military reservations (from the data set named "Indian and Military Reservation Boundaries")
Data currentness: 1997
Accuracy/Scale: 1:100,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: RGIS at http://rgis.unm.edu/loader_div.cfm?theme=Boundaries

Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or
clearinghouse@edac.unm.edu
Notes: Created from combining Census data for Indian Lands, with BLM Land Status
data listed as Military Reservations.

Dataset name: Federal Surface Land Ownership
Data currentness: 2006
Accuracy/Scale: 1: 100,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: Bureau of Land Management at
http://www.nm.blm.gov/nmso/nm952/geo_sci/datasets_metadata_index.html
Dataset contact: Geographic Sciences Team Lead, Bureau of Land Management - New
Mexico State Office, 505-438-7400

Dataset name: National Park boundaries
Data currentness: 1994
Accuracy/Scale: various
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: RGIS at http://rgis.unm.edu/loader_div.cfm?theme=Boundaries
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or
clearinghouse@edac.unm.edu
Notes: Digitized from various sources

Dataset name: National Forest boundaries
Data currentness: 1996
Accuracy/Scale: unknown
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: RGIS at http://rgis.unm.edu/loader_div.cfm?theme=Boundaries
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or
clearinghouse@edac.unm.edu
Notes: Received from the US Forest Service with no metadata

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

Dataset name: Public Land Survey System
Data currentness: 2004
Accuracy/Scale: 1:24,000 with updates from the BLM's Geographic Coordination
Database
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: RGIS at
http://rgis.unm.edu/loader_div.cfm?theme=PLSS%20%28Township%2C%20Range%2C

%20Section%29 or BLM at
http://www.nm.blm.gov/nmso/nm952/geo_sci/datasets_metadata_index.html
Dataset contact: RGIS Clearinghouse Manager at 505-277-3622 or
clearinghouse@edac.unm.edu or Bob Bewley, Geographic Sciences Team Lead, Bureau
of Land Management - New Mexico State Office at 505-438-7481 or
Bob_bewley@nm.blm.gov
Notes:

Cadastral (parcels)

No statewide data available.

Extraterritorial jurisdiction (ETJ) boundaries

No statewide data available.

Terrain (elevation)

Dataset name: National Elevation Dataset
Data currentness: 2000-2006
Accuracy/Scale: 2.44 meter (vertical)
Vertical datum: NAVD88
Fee associated? No
Available for redistribution? Yes
Dataset source: USGS at http://seamless.usgs.gov/
Dataset contact: Customer Service, U.S. Geoglical Survey, Center for Earth Resources
Observation and Science (EROS), 47914 252nd Street, Sioux Falls, SD 54198-0001;
phone: 800-252-4547; custserv@usgs.gov
Notes: (1) Same as National Dataset. Currentness and accuracy varies.
(2) State has individual USGS Digital Elevation Models at a 10-meter posting spacing
available from RGIS at http://rgis.unm.edu

Data Distribution Process for State Data

New Mexico Resource Geographic Information System at http://rgis.unm.edu/. Data are
available for use by public.

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.

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Clearinghouses and Inventories for the State

New Mexico Resource Geographic Information System (RGIS) Program at
http://rgis.unm.edu/intro.cfm

Earth Data Analysis Center at http://edac.unm.edu/clearinghouse.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. It is available through the geospatial data coordination lead at the Regional Management Center.

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 State are available on the Mapping Information Platform web site at
https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=NM

Involving the State's Geospatial Coordinator in Flood Studies

We have no current information about involving the coordinator in flood studies. In the past the office has asked be contacted in all of the following ways:

    a. Meet at the start of each year
    b. Send project list at the start of each year
    c. Keep the Geospatial Advisory Committee abreast of all aspects of the program.

There has been contact, but no formal relationship, with the office in the State that is responsible for updating the multi-hazard maps. The GIS coordinator has not had access to the state's flood map modernization business plan.

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

State Coordination Process for Building Geospatial Partnerships

New Mexico Geospatial Advisory Committee at http://www.gisac.state.nm.us/ exists to guide and enhance the use of geospatial technologies in state government. The committee coordinates geospatial technology in New Mexico state government, develops policy recommendations and guidelines concerning geospatial technology in New Mexico state government, and shares geospatial technology among all government agencies and the public.

The New Mexico Geographic Information Council at http://nmgic.unm.edu/ works on issues related to developing and accessing geographic information for New Mexico.

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>.

An informal list is kept by Geospatial Advisory Committee. The NMGIC membership could be considered a contact list, although the Council usually does not release the membership list.

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