

WASHINGTON HAZUS USER GROUP (WAHUG)

March 19, 2009
Meeting



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Opening & Introductions

- **Cathy Walker**

GIS Analyst (EMD)

WAHUG Coordinator

Washington Military Department

Information Technology Division

GIS Section

c.walker@mil.wa.gov

(253) 512-7056

- ◎ **Nick Delmedico**

Region X HAZUS POC (Point of Contact)

FEMA Region X

nicholas.delmedico@dhs.gov

(425) 487-4626

What is a HAZUS User Group?

- The growing network of HAZUS User groups has proved to be a valuable mechanism for creating partnerships between public and private sector organizations and industry in which mutually beneficial alliances are formed, goals and objectives developed, and projects identified and executed. User groups throughout the country have found enormous benefits and opportunities to develop successful projects through collaboration, combining resources and the sharing of information, data, and tips on software usage.

Washington HAZUS User Group (WAHUG) - Background

- WAHUG was started in 2002 in response to the Nisqually earthquake that occurred in June 2001.
- The group was disbanded just a short time after due to lack of interest
- With the recent floods of 2008 and 2009 the use of HAZUS has increased in the area, in addition to the interest of using the software by emergency managers and GIS professionals
- The coordination position for WAHUG was officially turned over in November with the request to weigh the possibility of reorganizing the group.

HAZUS-MH Software Information

HAZUS-MH Models

	Earthquake Ground Motion Ground Failure	Flood Frequency Depth Discharge Velocity	Hurricane Winds Pressure Missile Rain
Direct Damage			
General Building Stock	■	■	■
Essential Facilities	■	■	■
High Potential Loss Facilities	■		
Transportation Facilities	■	■	
Lifelines	■	■	
Induced Damage			
Fire Following	■		
Hazardous Materials Sites	■		
Debris Generation	■	■	■
Direct Losses			
Cost of Repairs/Replacement	■	■	■
Income Loss	■	■	■
Crop Damage		■	
Casualties	■	Generic Output	
Shelter and Recovery Needs	■	■	■
Indirect Losses			
Supply Shortages	■	■	
Sales Decline	■	■	
Opportunity Costs	■	■	
Economic Loss	■	■	

PC Requirements

Requirements for HAZUS-MH MR3

Please Note: HAZUS-MH MR3 is now certified for use with ESRI's ArcGIS and Service Pack 5. Service Pack 5 is recommended to run along with ArcGIS software when running Patch2. At a minimum, Service Pack 4 is required.

	MINIMAL	MODERATE	PREFERRED
HARDWARE	Pentium® III 1 GHz core speed 512 MB RAM <i>Note:</i> <i>Allows moderately fast analysis of small communities only.</i>	Pentium® IV 2 GHz core speed 1 GB RAM <i>Note:</i> <i>Allows fast analysis of medium-sized communities or real-time analysis for small communities.</i>	Pentium® IV 3 GHz (or better) core speed 2 GB RAM <i>Note:</i> <i>Allows fast analysis of large urban areas and real-time analysis for all communities.</i>
COMPUTER STORAGE: FREE HARD DISK SPACE	10 GB Allows installation of HAZUS-MH and storage of three scenarios for a medium-sized community.	40 GB Allows installation of HAZUS-MH and storage of three scenarios for large urban areas.	120 GB Allows installation of HAZUS-MH and storage of 25 or more scenarios for large urban areas.
HARDWARE ACCESSORIES	DVD-ROM reader with 12x minimum read speed Graphics Card with 1024 x 768 minimum resolution Mouse, Keyboard and 19" Monitor		
SUPPORTING SOFTWARE	Microsoft Windows 2000 SP2, SP3, and SP4 Microsoft Windows XP SP1 and SP2 (U.S. English Version) ArcGIS 9.2 SP5 ArcGIS Spatial Analyst extension required for Flood Model <i>Note: Will not run on Windows Vista 64 bit. HAZUS-MH running on Windows Vista is not yet supported.</i>		

- HAZUS-MH is now certified for use with ESRI's ArcGIS 9.2 with Service Pack 5
- Service Pack 5 is recommended to run along with HAZUS-MH patch 2

ArcGIS Desktop Requirements

- HAZUS-MH must run along with ArcGIS Desktop 9.2.
- ArcGIS Spatial Analyst Extension is required to run the flood model in HAZUS
- Single Use license of ArcView & Spatial Analyst Extension is ~\$2,500.
- Check ESRI for specific PC requirements for ArcGIS Desktop according to your operating system.

CDMS — Comprehensive Data Management System

- CDMS provides users with the capability to update and manage statewide and HAZUS datasets, which are used to support analysis in the HAZUS-MH models.
- CDMS functions as a single user or shared desktop application.
- CDMS Release 2.0 is now available.
- CDMS 2.0 replaces the Building Inventory Tool (BIT) and Inventory Collection and Survey Tool (InCast) currently available on the HAZUS-MH DVD.
- It will not work on PCs that have ArcGIS 9.3 installed



- CDMS 2.0 is available for download on the FEMA website.

HAZUS-MH Training

- HAZUS-MH training allows you to harness the power of HAZUS-MH to produce a quantifiable and geospatial view of the potential risks that your community may face.
- Training Options:
 - ESRI Virtual Campus Courses
 - EMI Training, Emmitsburg, MD

ESRI – Virtual Campus

- HAZUS-MH training classes available online through ESRI's Virtual Campus
- These on-line courses compliment the classroom training held throughout the year at the Emergency Management Institute (EMI).
- 7 HAZUS-MH class are available
- First 2 classes, Overview & Installation and HAZUS-MH for Decision Makers, are FREE
- Other 5 classes (see handout) are available for \$29/per class. Persons with .edu e-mail addresses can receive 40% off of this price.

HAZUS-MH Training – EMI

- Regularly scheduled HAZUS training classes are held at FEMA's Emergency Management Institute (EMI) located on the National Emergency Training Center campus in Emmitsburg, Maryland, 75 miles north of Washington, DC.
- Courses provide instruction in all steps of the loss estimation process, from inventory verification and improvement to running a loss analysis; how to use HAZUS results for mitigation, as well as for comprehensive planning, response, and recovery activities; data management; and useful GIS concepts. Emergency managers, GIS specialists, geologists, state and local planners, consultants, and all those involved in risk assessment activities benefit from HAZUS training.

EMI- HAZUS Courses

- Introduction to ArcGIS (3 ½ days)
- HAZUS-MH for Hurricane (3 ½ days)
- HAZUS-MH for Flood (3 ½ days)
- HAZUS-MH for Earthquake (3 ½ days)
- Application of HAZUS-MH for Disaster Operations (3 ½ days)
- Application of HAZUS-MH for Mitigation Planning (3 days)
- Comprehensive Data Management (CDMS) (4 days)
- Basic HAZUS-MH (4 days)

NOTE: Some of the above courses have prerequisites or prior experience required.

EMI HAZUS Training Schedule

- HAZUS-MH for Flood (E172) -- July 27-30
 - HAZUS-MH for Earthquake (E174) – April 27-30
 - Application of HAZUS-MH for Risk Assessment – August 3-6
 - Basic HAZUS-MH, April 6-9 & July 13-16
 - Comprehensive Data Management (CDMS), Sept 14-17
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- Applications for courses vacancies must be received at least 6 weeks before the start date of the course for the applicant to be considered. Vacancies within 6 weeks of the course start date will only be filled by the established waiting list for the course
 - EMI Application information and instructions are available at <http://training.fema.gov>

HAZUS-MH Credentialing Program

- In 2009, FEMA launched a new initiative that recognizes emergency managers, GIS professionals, and other who complete a structured HAZUS-MH curriculum that has two tracks: HAZUS-MH Trained Professional or HAZUS-MH Practitioner
- **HAZUS-MH Trained Professional** – provides a foundation of basic HAZUS-MH skills plus focused instruction on at least one hazard
- **HAZUS-MH Practitioner** – expands on the HAZUS-MH Trained Professional Track by incorporating specialized training.



HAZUS-MH Trained Professional Requirements

- E190 ArcGIS for Emergency Managers (prior GIS experience may substitute)
- E313 Basic HAZUS-MH
- E317 Comprehensive Data Management
- Minimum of ONE of the following: E170 HAZUS-MH for Hurricanes; E172 HAZUS-MH for Floods; or E174 HAZUS-MH for Earthquakes

- Once the requirements are completed, individuals receive a certificate, lapel pin, and a listing on FEMA's website recognizing their achievement



HAZUS-MH Practitioner Requirements

- E190 ArcGIS for Emergency Managers (prior GIS experience may substitute)
 - E313 Basic HAZUS-MH
 - E296 Application of HAZUS-MH for Risk Assessment
 - E179 Application of HAZUS-MH for Disaster Operations
 - E317 Comprehensive Data Management
 - Minimum of ONE of the following: E170 HAZUS-MH for Hurricanes; E172 HAZUS-MH for Floods; or E174 HAZUS-MH for Earthquakes
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- Once the requirements are completed, individuals receive a certificate, lapel pin, and a listing on FEMA's website recognizing their achievement

WAHUG Organization

- WAHUG Charter
- Membership Structure
 - Meeting preferences
 - Location, times, etc.
 - Online presence – www.usehazus.com/wahug
- Electing of Officers
- Other Business ??

Questions & Answers

