OpenHazus: the Future of FEMA Loss Estimation

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What is Hazus?

Welcome to Hazus.
In order to use Hazus, you need to define the study region to be used in the analysis.

Please select the desired option below, and a wizard will guide you through the necessary steps.

- Create a new region
- Open a region
- Delete a region
- Duplicate a region
- Export/Backup a region
- Import a region

OK

Exit
Supported Hazards

- Hurricane Wind and Storm Surge
- Riverine and Coastal Flooding
- Earthquake
- Tsunami
- Tornado (Under Production)
What is Hazus?

Flood Depth + Structures → Damage → Loss
What is Hazus?

Flood Depth + Structures = Damage → Loss

FEMA
FEMA Flood Strategy is Changing
OpenHazus

Flood Data

OpenHazus

DFIRM PFRA

Nationwide Structures Risk Analysis Tools Hazus Loss Library

Increasing Resilience Together
Local Attributes vs. Statistical Assumptions

**Foundation Type**

- **Hazus**
- **Local**

**First Floor Elevation**

- **Hazus**
- **Local**
Flood Loss Utility

Preliminary FIRM 100-Year Flood - Direct Economic Loss (Buildings): New York City

Fields named similar to defaults are searched for.
* indicates required field.
Red fields are required and must be mapped.
Yellow fields have not been mapped, but are not required.
Green fields have been mapped successfully.

Execute Browse to Inventory Input (.csv) Quit

Data Source: HAZUS and Department of Finance
HIFLD Integration

Automated data updates:

- Hospitals
- Schools
- Police stations
- Fire stations
- EOCs
Hazus for U.S. Territories

Territory-specific modeling:

- Inventory
- Damage functions
FEMA’s Hazus Program is now managed by the Natural Hazards Risk Assessment Program under FIMA’s Risk Management Directorate.

For any questions or comments regarding OpenHazus please feel free to contact FEMA-NHRAP@fema.dhs.gov.

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