New Risk Data from FEMA's Hazus Program

FEMA

Updated risk assessment data for the U.S. Territories and for nationwide infrastructure are now available from the FEMA Hazus Team.
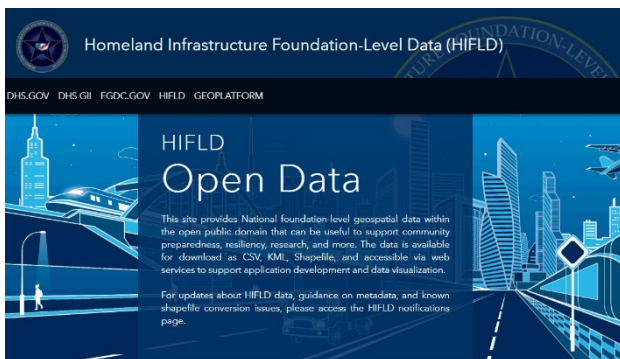
Building counts, values, and square footages were aggregated for every census block in Puerto Rico and the U.S. Virgin Islands (USVI) using best available footprint data and expert methods for estimating risk-related building attributes. Nationwide point and segment locations for infrastructure layers were updated in partnership with the Homeland Infrastructure Foundation Level Data (HIFLD) program. Building and infrastructure inventories are fundamental inputs for any risk analysis project, and these updates will substantially improve the accuracy of risk and exposure metrics across the U.S.
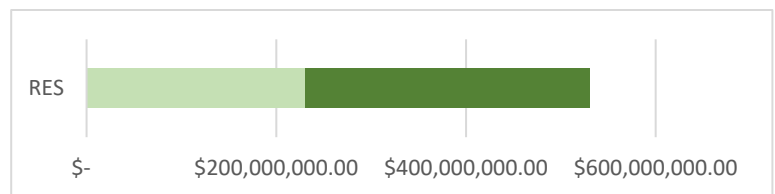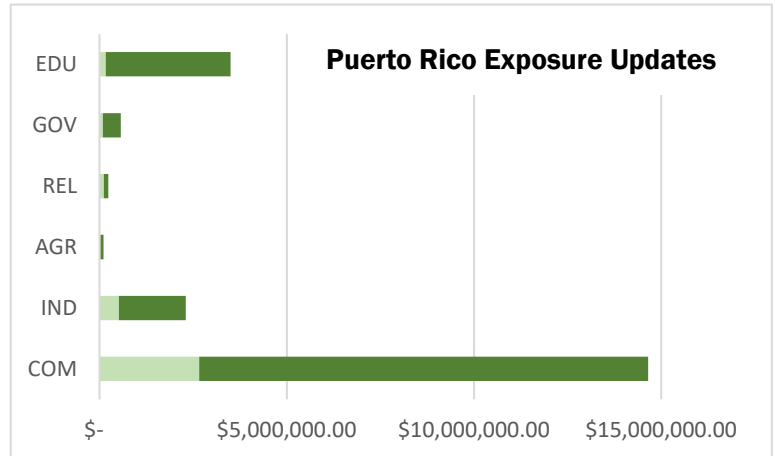
U.S. Territories

Inventory data updates enable flood, tsunami, and earthquake risk assessments for Puerto Rico and USVI. Hurricane-related building data will be developed for these U.S. Territories in 2020.

- Building data (including height and area) based on LiDAR-derived footprints
- Building valuations updated using replacement cost data adjusted for 2018 (Puerto Rico) and 2019 (USVI) prices
- Risk-related attributes estimated using best available data including tax assessor parcels and FEMA program information
- Detailed summaries of our data creation process are available for USVI and Puerto Rico.

✓ Public Data ✓ Open Methodology

⬇ Download New Data!

Building values exposed to natural hazards in Puerto Rico by census occupancy type according to previous (light green) Hazus data and updated (dark green) data. Check out detailed exposure changes here!

Infrastructure

- The Hazus Program partners with HIFLD to provide up-to-date infrastructure layers across the U.S.
- Data for American Samoa, Guam, and Northern Marianas Islands were not updated due to data gaps
- Detailed update methodology available here.
- Up-to-date layers in Hazus include:

  - Schools
  - Hospitals
  - Fire stations
  - Police stations
  - Emergency operation centers
  - Highway bridges & tunnels
  - Railway bridges & segments
  - Light rail facilities & segments
  - Port facilities
  - Bus facilities
  - Airport facilities & runways
  - Wastewater facilities
  - Natural gas facilities & pipelines
  - Electric power facilities