FEMA Hazus Export Tool

The Hazus Export Tool quickly and easily extracts Hazus results and puts them into readily usable data formats. It was created to aid in visualizing risk assessment results to support risk communication and a deeper analysis.

About Hazus

Hazus is a nationally standardized risk modeling methodology that combines expertise from many disciplines to create actionable risk information that increases community resilience. It is distributed as free GIS-based desktop software with a collection of inventory databases for every U.S. state and territory. Hazus identifies areas with high risk for natural hazards and estimates physical, economic, and social impacts of earthquakes, hurricanes, floods, and tsunamis.

The Hazus Program, managed by FEMA's Natural Hazards Risk Assessment Program (NHRAP), partners with other federal agencies, research institutions, and regional planning authorities to ensure Hazus resources incorporate the latest scientific and technological approaches and meet the emergency management community's needs.

The Hazus Export Tool

The Hazus Export Tool is an open source tool designed to provide users an easy way to access, analyze, and share Hazus risk assessment results. The tool extracts and summarizes results from any Hazus study on your computer and compiles them into a handful of digestible spreadsheets, shapefiles, and a one-page graphic report. The tool does not require the user to have any prior mapping or coding experience.

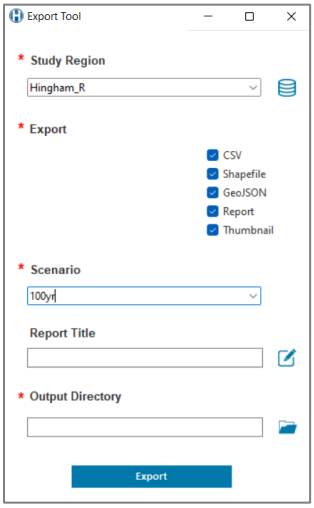


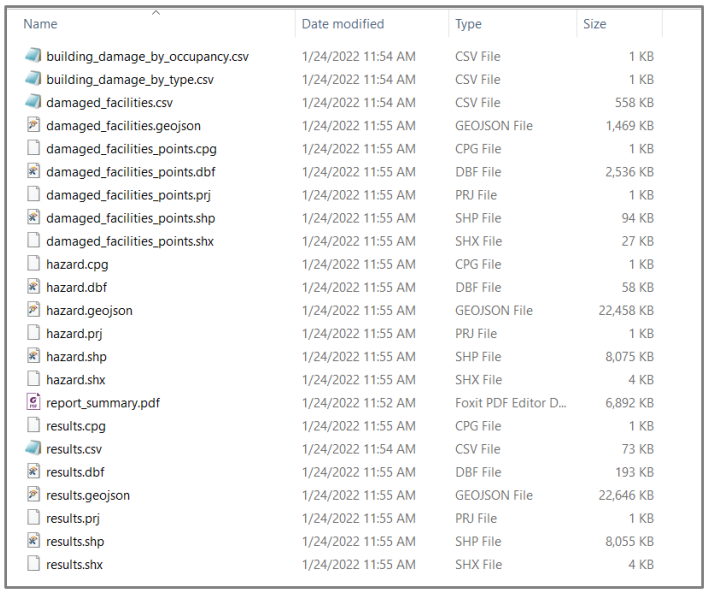
Figure 1. Hazus Export Tool interface for a 100-yr Flood Scenario.

FEMA

The Export Tool can be used to further explore any Hazus model results or send reports to stakeholders for quick and effective risk communication. Users can find detailed information about field names by exploring the data dictionaries folder inside the media download. The Hazus Team hopes to drive effective risk reduction strategies in all areas of emergency management by providing users with less complex Hazus results.

Getting Started with the Export Tool

- Visit FEMA's Map Service Center Hazus Page under the Hazus Program Updates and Open Source Tools tab to download the Export Tool and access documentation.
  Please Note: The Export Tool requires Hazus, ArcGIS Desktop, and the latest Hazus Open Source Tool Python Environment to be installed on your computer.
- Select a "Study Region" name from the drop-down list.
  Please Note: the tool automatically searches for Study Regions from your C:\HazusData\Regions folder.
- Select the outputs you would like to receive for your Hazus Study Region: CSVs, Shapefiles, GeoJSONS, and Report.
- Enter a report Title that best explains your risk assessment study.
- Select the folder destination for exported files.



Name	Date modified	Type	Size
building_damage_by_occupancy.csv	1/24/2022 11:54 AM	CSV File	1 KB
building_damage_by_type.csv	1/24/2022 11:54 AM	CSV File	1 KB
damaged_facilities.csv	1/24/2022 11:54 AM	CSV File	558 KB
damaged_facilities.geojson	1/24/2022 11:55 AM	GEOJSON File	1,469 KB
damaged_facilities_points.cpg	1/24/2022 11:55 AM	CPG File	1 KB
damaged_facilities_points.dbf	1/24/2022 11:55 AM	DBF File	2,536 KB
damaged_facilities_points.prj	1/24/2022 11:55 AM	PRJ File	1 KB
damaged_facilities_points.shp	1/24/2022 11:55 AM	SHP File	94 KB
damaged_facilities_points.shx	1/24/2022 11:55 AM	SHX File	27 KB
hazard.cpg	1/24/2022 11:55 AM	CPG File	1 KB
hazard.dbf	1/24/2022 11:55 AM	DBF File	58 KB
hazard.geojson	1/24/2022 11:55 AM	GEOJSON File	22,458 KB
hazard.prj	1/24/2022 11:55 AM	PRJ File	1 KB
hazard.shp	1/24/2022 11:55 AM	SHP File	8,075 KB
hazard.shx	1/24/2022 11:55 AM	SHX File	4 KB
report_summary.pdf	1/24/2022 11:52 AM	Foxit PDF Editor D...	6,892 KB
results.cpg	1/24/2022 11:55 AM	CPG File	1 KB
results.csv	1/24/2022 11:54 AM	CSV File	73 KB
results.dbf	1/24/2022 11:55 AM	DBF File	193 KB
results.geojson	1/24/2022 11:55 AM	GEOJSON File	22,646 KB
results.prj	1/24/2022 11:55 AM	PRJ File	1 KB
results.shp	1/24/2022 11:55 AM	SHP File	8,055 KB
results.shx	1/24/2022 11:55 AM	SHX File	4 KB

Figure 2. Example of Hazus Export Tool file outputs.

Batch Export Tool

Enhancements made to the Export Tool now allows users to run a Batch Export. The Hazus Batch Export Tool is used to run the Hazus Export Tool on one or more Hazus Package Regions (HPRs) and generates metadata for each scenario. HPRs are the package files created by Hazus when you export a Study Region containing full data sets of

the built Study Region, the scenario data, and any analyses that have been run. These data sets will have a file extension of ".hpr". Unlike the Export Tool mentioned above, the Batch Export Tool does not require users to have Hazus installed if an HPR file is available.

The batch export functionality allows users working with many Hazus Study Regions to run the export tool quickly and efficiently for all Study Regions at once.

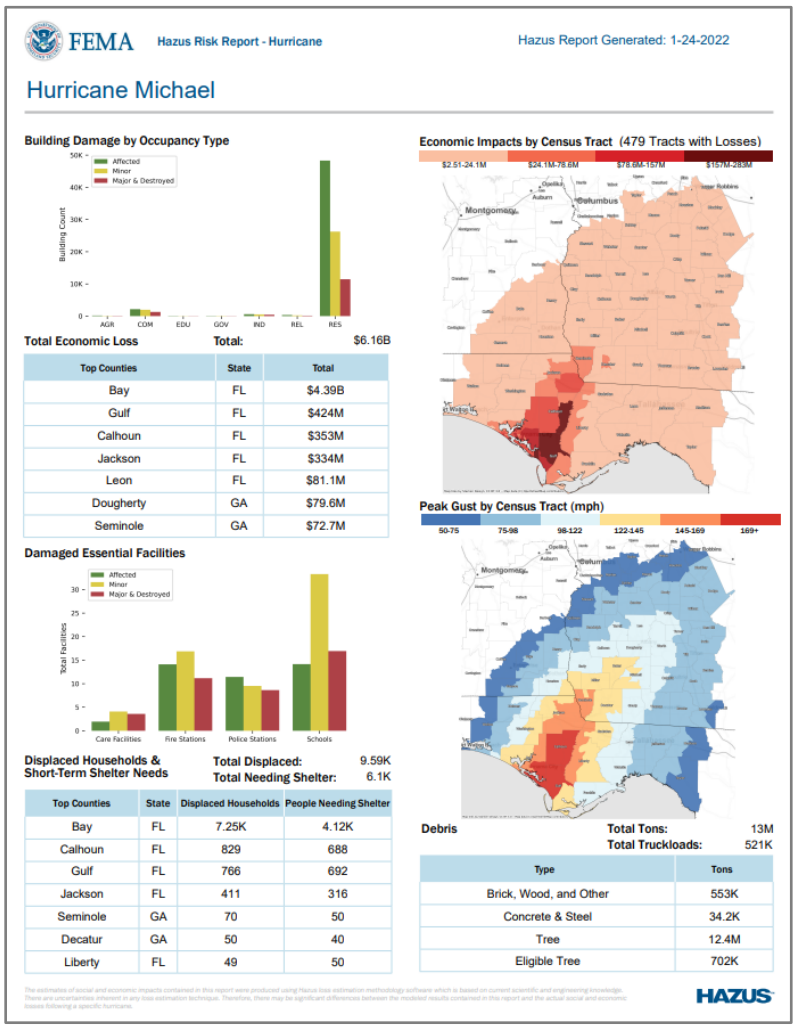


Figure 3. Example of the Hazus Export Tool one-page graphic report.

Learn More

- For more information on using the Batch Export Tool, please review the "ReadMe.txt" file with the tool media download from FEMA's Map Service Center Hazus Page under the Hazus Program Updates and Open Source Tools tab.

Hazus Resources

The Hazus Program offers technical guidance, training, and information about ongoing and recent projects to help stakeholders complete successful risk assessments. Please review the resources listed below for assistance using Hazus and reach out to the Hazus Team with questions.

- Self-Guided Course Materials
- YouTube Videos
- Sign up for Risk Assessment Guidance
- Visit the Hazus Loss Library
- User & Technical Manuals
- Contact the Hazus Team