



US Army Corps of Engineers

Institute for Water Resources

BUILDING STRONG®

Flood Damage Data Collection (2010)

Status: **Project Manager:**

In Progress [Stuart Davis](#)

Purpose: The purpose of the Flood Damage Data Collection Program (FDDC) is to provide economists and other analyst with tools to more accurately and efficiently estimate the economic impacts of flooding by collecting primary data, providing analysis, and supplying analytical tools as determined by soliciting information from Corps of Engineer economists.

Objective: The FDDC is intended to provide information and tools to analysts for evaluating flood risks to property and for estimating the economic benefits of flood damage reduction. The FDDC is designed compile generic damage relationships, estimation models, and data collection tools for organizing floodplain inventory data.

Benefits: This program will enable Corps of Engineer districts and communities applying for FEMA Hazard Mitigation grants to more accurately and efficiently estimate the economic consequences of flooding. Field analysts will not have to collect their own basic data, make their own detailed analyses of damage relationships, or invent their own tools for collecting and managing data.

Progress: Over 1,500 residential flood victims and several hundred nonresidential businesses have been surveyed to obtain information needed for computing residential and nonresidential structure and content damage functions. Residential damage functions have been published in economic guidance memorandums. A floodplain inventory tool has been released, with a training completed. A damage estimation model has been estimated for flood damage to roads, along with a background report on the costs of road repair. Work has been initiated on a design document for estimating flood damage to roads. Damage relationships have been computed cleanup costs, and damage to vehicles. An EGM has been published for Flood Damage to Vehicles.

Products:

- *velopment of preliminary relationships for nonresidential flood damage, temporary relocation for residents, and damage to vehicles.*
- *Flood Damage to Vehicles EGM*
- *Nonresidential Flood Damage (interim)*
- *A report on the current state of practice on estimating damage to roads and source information on road damage repair, and a report documenting a model for*

estimating road damage.

- [Generic Damage Functions for Structures Without Basements](#)
- *Development of the IWR Geospatial Floodplain Inventory Tool (IWR-GeoFIT).*
- *Generic residential depth-damage functions for structures with and without basements.*

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