

# Intersections of Flood Events and the Built Environment: A Pennsylvania Perspective

Center for Community & Housing Development

**September 10, 2025**



# Historical Events

- Hurricane Agnes (1972)
- Ice Jam (1996)
- Hurricane Ivan (2004)
- Tropical Storm Lee (2011)
- Flash Flooding (2018)
- Hurricane Ida (2021)
- Tropical Storm Debby (2024)



# Built Environment

- Housing Stock
- Infrastructure
- Impervious Surfaces
- Stormwater Systems
- Public Facilities



# Policy

- National Flood Insurance Program (NFIP)
- Federal Emergency Management Agency Flood Insurance Rate Maps (FEMA FIRMs)
- Federal Flood Risk Management Standards (FFRMS)
- Pennsylvania Acts
  - 167 (Stormwater Management Act of 1978)
  - 166 (Flood Plain Management Act of 1978)
- Local Municipal Floodplain Ordinance

# Policy and Planning Responses

Commonwealth Hazard Mitigation Plan

County Hazard Mitigation Plan

FEMA Flood Maps & National Flood Insurance Program (NFIP)

Federal Flood Risk Management Standards (FFRMS)

Disaster Risk Reduction Areas (DRRA)

Flood Acquisition/Demolitions (Buyouts)

Structural Elevations

Community Rating System (CRS)

Community Development Block Grant – Disaster Recovery (CDBG-DR)

Hazard Mitigation Grant Program (HMGP)

Small Business Administration (SBA)

Other Considerations

# Built Environment Challenges

- Pre-FIRM properties
  - High risk
- Aging Infrastructure
- Land use patterns
- Commonwealth of Pennsylvania
  - 2,560 municipalities



**QUESTIONS?**



Pennsylvania

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