



# House Select Committee on Disaster Relief

April 16, 2018

*Coastal Management*  
ENVIRONMENTAL QUALITY



## **NC Coastal Area Management Act (1974)**

- Permitting, planning, research, conservation, and public access programs in 20 coastal counties

### ***Regulatory***

- Shoreline & water development activities

### ***Policy and Planning***

- Rule development w/ Coastal Res. Comm.
- Land use planning and assistance
- Public Waterfront Access Grants

### ***Coastal Reserve Program***

- 10 Reserve sites, > 40K acres
- Cooperative research, training programs





# Coastal Storms and Flooding

- **Hurricanes of the 1990's**
  - *Bertha, Fran, Bonnie, Dennis, Floyd*
- **Hurricane Floyd (1999)**
  - 9-10 ft. storm surge & heavy rains
  - >\$6B economic losses
  - Up to 11,000 homes destroyed
- **Hurricane Isabel (2003)**
  - \$450M economic losses in NC
  - 2000' wide inlet on Hatteras Island

*Division of Coastal Management*





## **Beach and Shoreline Erosion**

- CRC rules address oceanfront building setbacks, inlet hazards, and emergency permitting
- Beach & Inlet Management Guidance Document
- DCM Living Shorelines Strategy

## **Coastal Storms and Flooding**

- Hyde County Agricultural Drainage Study and Permitting Guidance
- Local workshops & training on coastal stormwater/flooding
- Coastal Resilience Needs Assessment and Guidance Document
- Pilot Resilience Project Mini-Grants (2017)
- Local Planning Grants program

## Community Resilience Mini-Grants

- **Oriental** Raccoon Creek Flood Abatement Study - \$16,950  
Engineering study to determine mitigation measures for reduction of frequency and level of flooding within the Raccoon Creek Drainage Basin
- **Edenton** Old Hertford Rd/N. Broad Culverts & Drainage Analysis - \$18,000  
Analysis of drainage and ditch culverts that drain farm and industrial land
- **Duck** Living Shoreline Stabilization Study - \$22,500  
Surveys, engineered plans, and project specifications necessary for the restoration of marshland along Town property abutting Currituck Sound
- **Pine Knoll Shores** Coastal Resiliency Drainage Study - \$16,950  
Flood and drainage engineering study  
Research into innovative right-of-way road drainage enhancements  
Outreach to build community resiliency awareness





## CRC Revised Grant Program (15A NCAC 07L)

- Less emphasis on land use plan development & data acquisition
- CRC determines priority areas for funding

Funding for 2017-18 grant cycle prioritized for **Natural Hazards** and **Storm Recovery** projects:

- \$17,500 for Elizabeth City to create a plan to mitigate flooding
  - \$17,500 for Carolina Shores to produce flood mitigation manual
  - \$15,000 for Caswell Beach for study to identify & alleviate flooding
  - \$15,000 for Hyde County for watershed restoration planning
  - \$7,500 for Pender County to update policies on natural hazards
  - \$7,500 for Swansboro to update policies on natural hazards and storm recovery
- *Up to 25% local match*







### Morehead City Flood Mitigation Plan and Repetitive Loss Area Analysis – \$15,000 (2016)

- **Community Rating System (CRS)** recognizes floodplain management activities that exceed the minimum National Flood Insurance Program standards
- Depending upon level of participation by local government, flood insurance premiums for policyholders can be reduced up to 45%
- Morehead City Flood Management Plan originally scored 361 points
- 140 estimated points for the DCM-funded analysis (RLAA)
- Combined 501 points equivalent to a Class 8 (currently class 9), should provide additional 5% premium discount
- Community-wide, total estimated premium discounts are \$39,761



**Coastal Resilience Working Group** – DEQ recently convened a working group with staff from DEQ, Dept. of Public Safety, academia, and environmental nonprofit community

- Focus on coastal storms and flooding; built (grey) and natural (green) infrastructure needs
  - Improve coordination of financial and technical support across organizations
  - DCM is coordinating on behalf of DEQ







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