

Flood Hazard Assessment-Rehoboth Beach, DE

Coastal Communities Enhancement Initiative

The coastal region of the Delmarva Peninsula is growing rapidly, with the new population dominated by retirees. This area risks serious flooding from Nor'easter's and other events. The Ash Wednesday Storm of 1962 brought 40' waves to Rehoboth Beach, destroying the boardwalk and beach front homes.

Many senior citizens do not recognize the risk, become confused or disoriented, seek comfort of home, move more slowly, need medicines special medical attention, and need to stop frequently. The first step in preparing for evacuating is assessing the demand; estimating the number of senior citizens at risk in various storm events.

The analysis uses CommunityViz and Google Earth to assess the at-risk population in specific storm events. The methodology includes:

- Assigning flood risk for each building
- Calculating retirees per household
- Summarizing results in charts
- Varying the storm intensity with slider bars
- Visualize the impacts in Google Earth

