

# Resilient Community Partnership (RCP)

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June 3, 2016



# Definition of Coastal Resiliency:

The ability of a community to *bounce back* after hazardous events like hurricanes and coastal storms.



# Resilient Community Partnership :

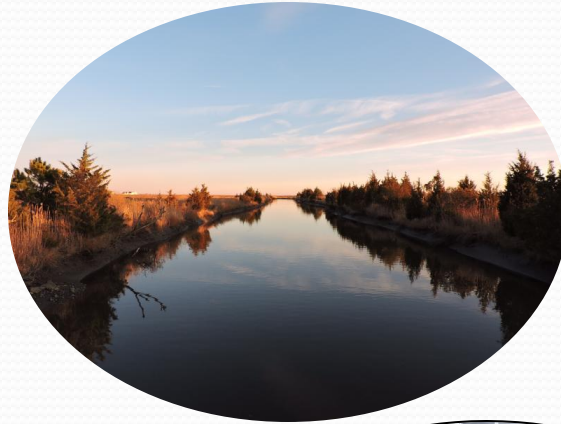
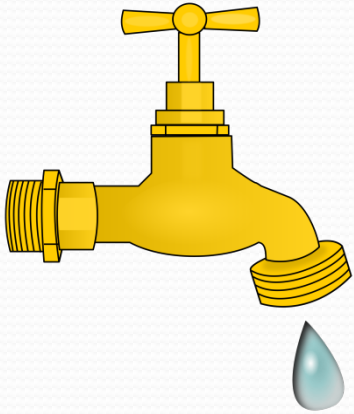
GOAL: To help communities undertake the necessary planning to enhance their capacity to become *resilient*

## DNREC Capabilities:

- Resilience planning and coastal management
- Coordination with federal and state partners
- Data analysis and other technical assistance
- GIS mapping
- Meeting facilitation
- Public education and outreach



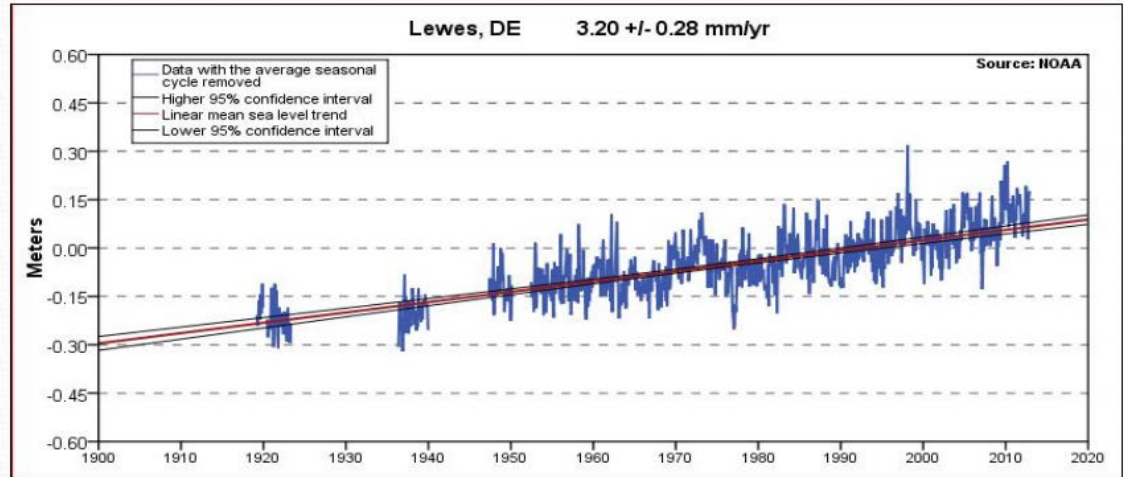
# Slaughter Beach Has An Abundance of Water





# Coastal Hazards That Cause Flooding

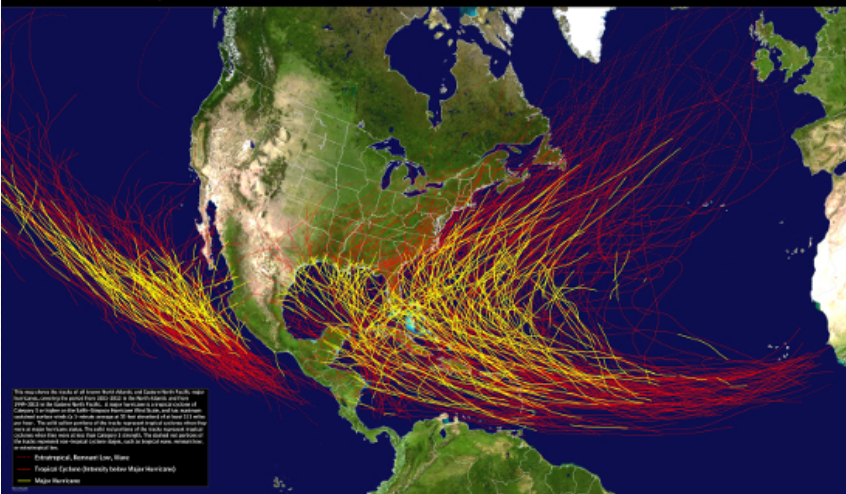
- Tropical Storms
- Nor'easters
- Heavy Precipitation
- Extreme Tides
- Sea Level Rise



Global rate = 1.7 mm/yr

## Major Hurricane History

Data from 1949 in the Pacific, from 1851 in the Atlantic



Nuisance Flood



## Other Coastal Hazards

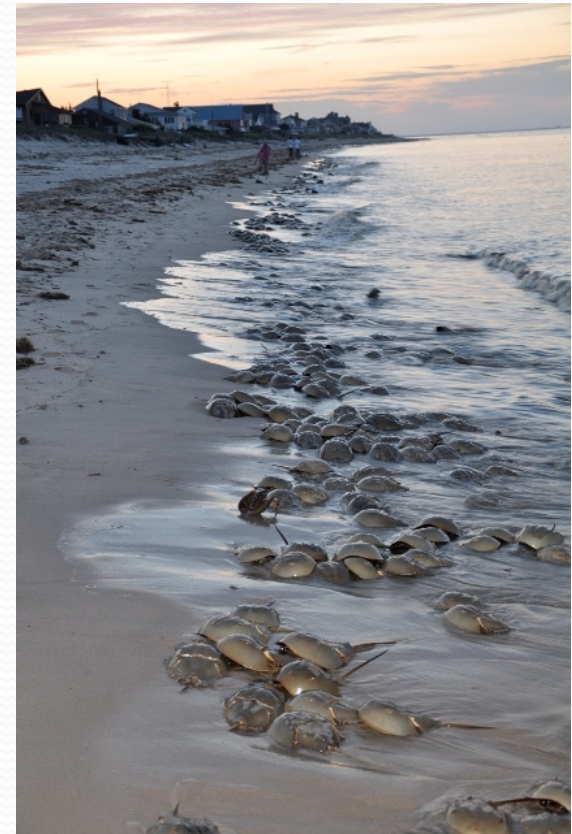
- Extreme Heat
- Wildfires





# Step 1 of Our Project – Community Inventory of Assets and Values

- What makes the community a special place to live in, and why?  
→ Values Survey
- What infrastructure and assets are critical to the continuity of Town operations and/or quality of life?
- Identify location and elevation of infrastructure like roads and propane tanks



## Step 2 – Vulnerability Assessment

- Identify and characterize existing *and future* hazards
  - Past history: FEMA Floodplain maps, Town's experience with actual events
  - Future: DNREC sea level rise scenarios, climate trends for heat
- Document potential impacts of each hazard on assets and prioritize the hazards



# Exposure



People



Property



Systems

Adapted from FEMA, IS-393.A  
Introduction to Hazard Mitigation

# Vulnerability



Building Elevations



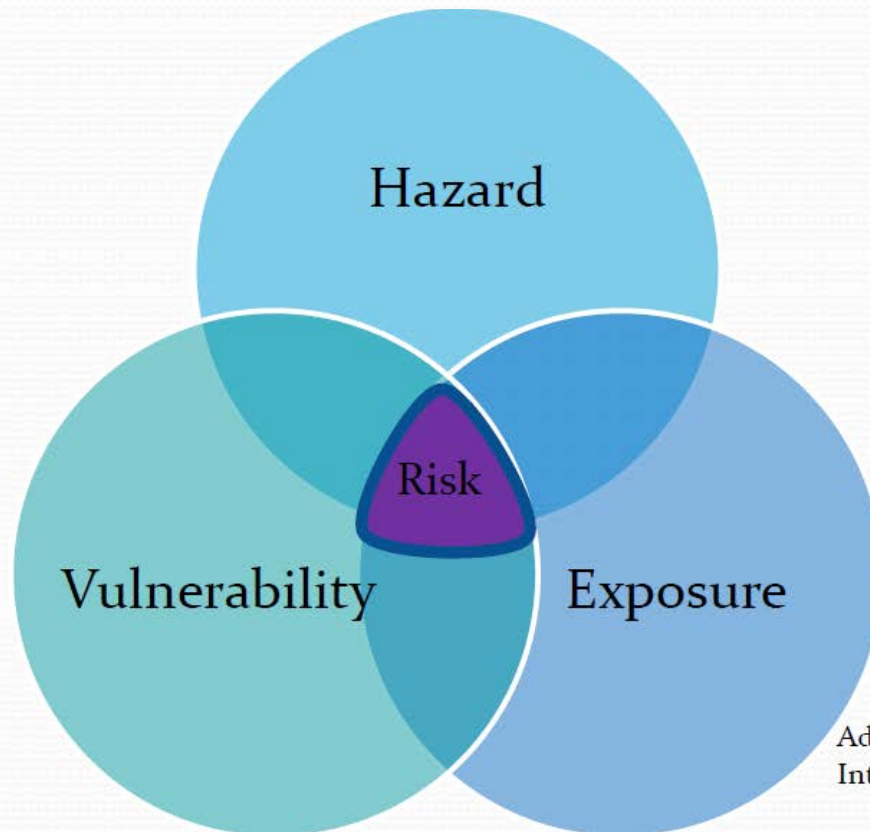
At-risk populations



Stormwater Management

Adapted from FEMA, IS-393.A  
Introduction to Hazard Mitigation

# Risk = Hazard + Exposure + Vulnerability



Adapted from FEMA, IS-393.A  
Introduction to Hazard Mitigation



# Step 3 – Adaptation and Mitigation



Protect



Accommodate

Avoid

# **THANK YOU!**

## **Please visit our Stations to Lend Your Voice to the Process**

### **Community Values Survey**

- See the results of the community values survey
- Tell us your thoughts about the proposed Town Vision Statement

### **Town Maps**

- Mark the maps and fill out comment cards to tell us about how past floods and wildfires have impacted the community

### **Extreme Heat Table**

- Provide comments to DNREC Division of Energy and Climate about past impacts from extreme heat on the community

### **Floodplain Map Table**

- Speak with DNREC about FEMA's floodplain maps and federal flood insurance

### **University of Delaware Water Sensor Table**

- Learn about an Nuisance Flood project that will be installing water sensors in Town