

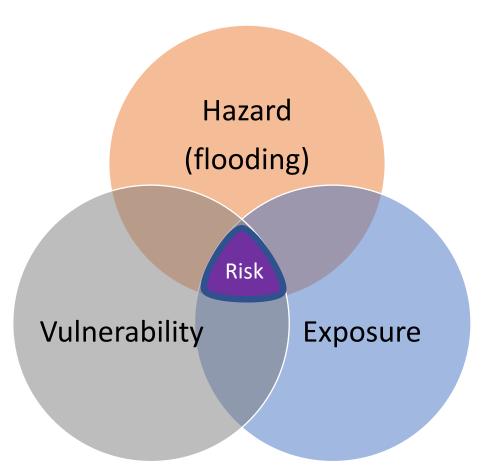


A Snapshot of the Presentation

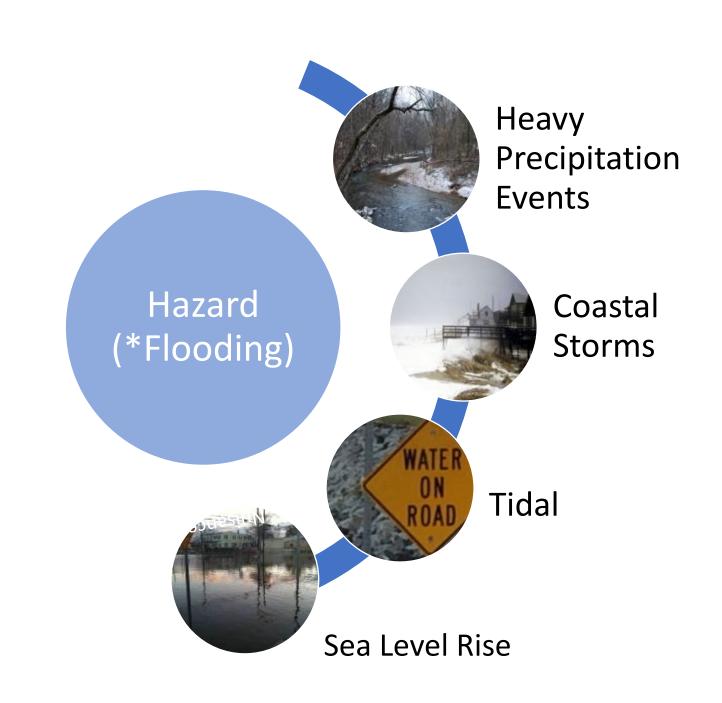
- Understanding flood risks and what it means to be resilient to them
- A brief overview of the FEMA floodplain
- Flood Insurance
- Emergency Preparedness Strategies

Understanding Risk

Risk = Hazard + Exposure + Vulnerability



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



Heavy Precipitation Events

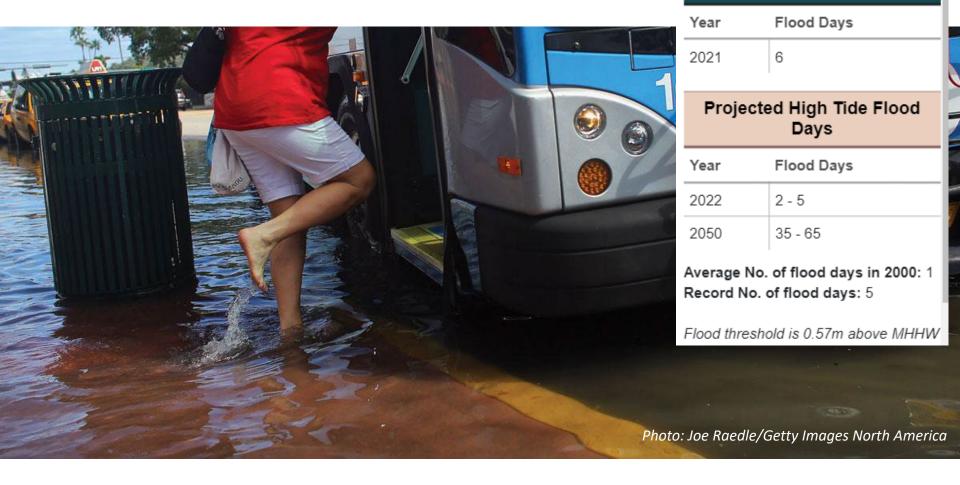


Coastal Storms



Tropical Storm Fay, 2020

Tidal Flooding



*Source: NOAA State of High Tide Flooding and 2022 Outlook

https://tidesandcurrents.noaa.gov/HighTide Flooding_AnnualOutlook.html

Reedy Point, DE

Sea Level Rise



Source: Massachusetts Audubon Center

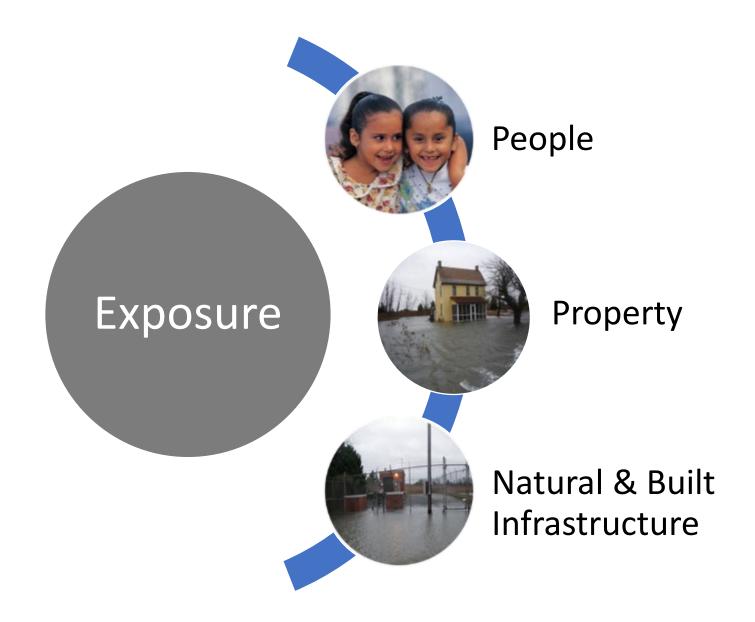
Appears as an increase in average tide height over time



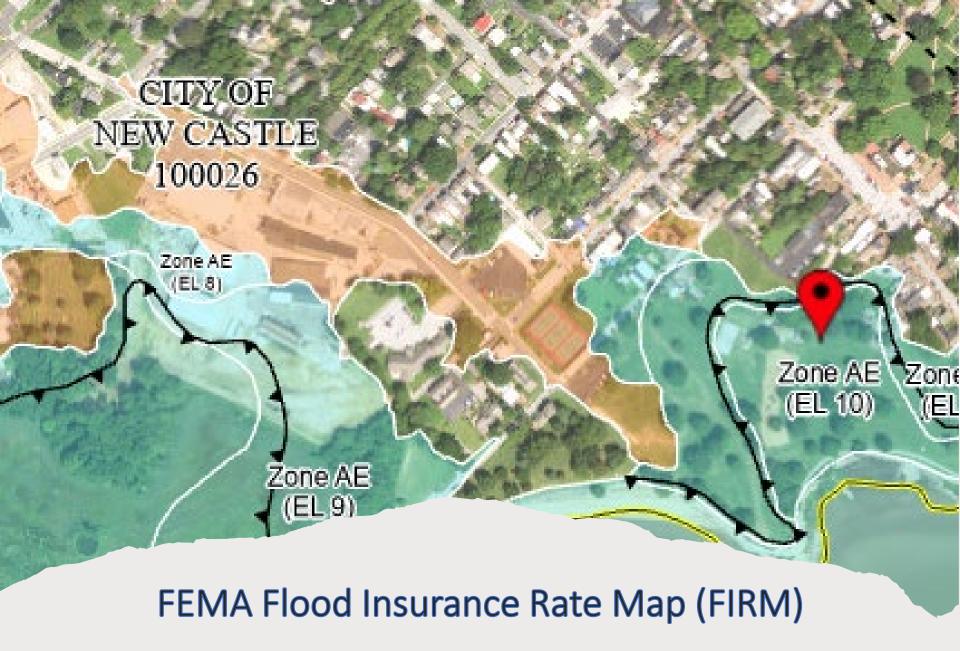
On average, the U.S. will see as much sea level rise by 2050 as seen in the last century



By 2050, "moderate" (typically damaging) flooding is expected to occur, on average, more than 10 times as often as it does today, and can be intensified by local factors. – 2022 Sea Level Rise Technical Report

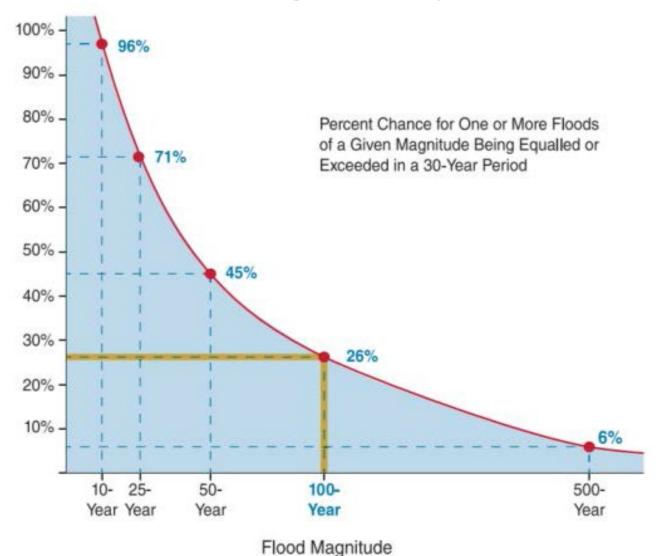


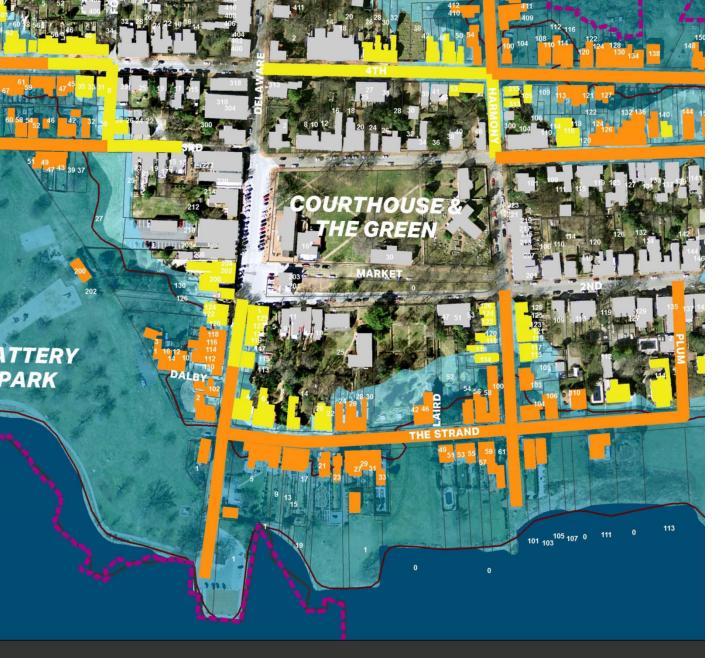
Adapted from FEMA, IS-393.A Introduction to Hazard Mitigation



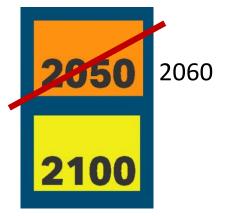
FEMA Flood Map Service Center: https://msc.fema.gov/portal/home

100 Year Floods, or 1% Floods Have a 26% Chance of Occurring In Any 30 Year Period



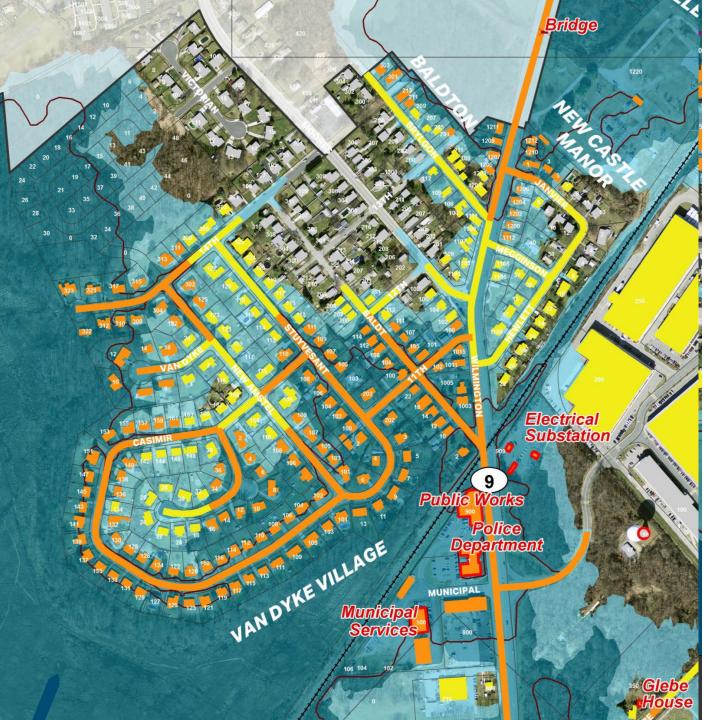


Buildings and roads exposed to inundation at high tide due to sea level rise



2 DOWNTOWN | BULL HILL

Source: Vulnerability Assessment and Adaptation Plan, 2018



Buildings and roads exposed to inundation at high tide due to sea level rise



Source: Vulnerability Assessment and Adaptation Plan, 2018



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

Sensitivity



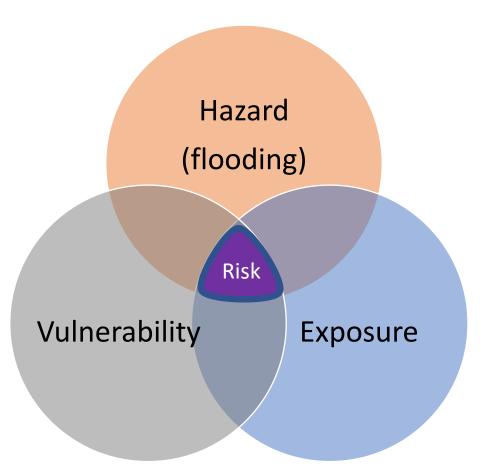


Adaptive Capacity





Use These Factors To Assess Your Risks



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

Resilience:

The ability to bounce back after disruptive events



Remnants of Hurricane Ida, Wilmington, DE 2021

How long before life returns to "normal?"

Emergency Preparedness Strategies



"Winging It" is NOT a good plan!

Emergency Notification Systems





- •WDEL AM 1150 / FM 101.7
- •WTMC AM 1380 (DelDOT Traffic Advisory Station)
- •WILM AM1450
- •WSTW FM 93.7
- •WWTX-AM 1290
- •WJBR FM 99.5

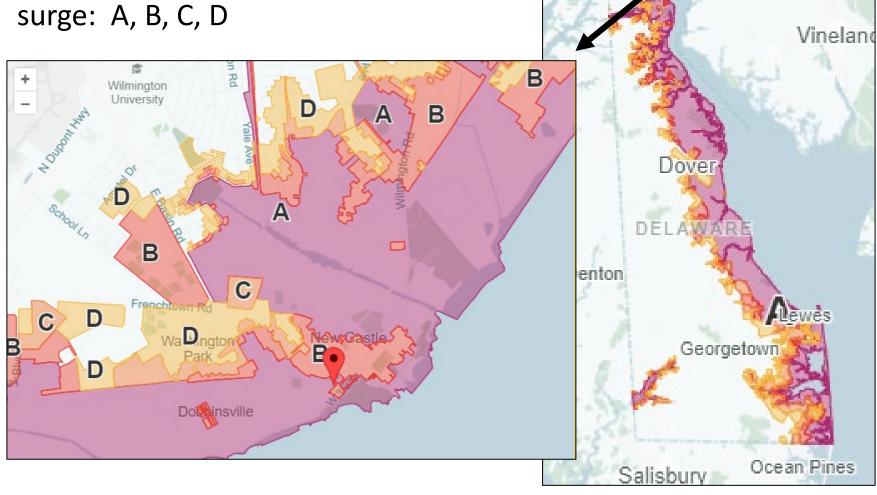


Delaware Emergency Notification System (DENS)

https://preparede.org/stay-informed/

Know Your Zone:

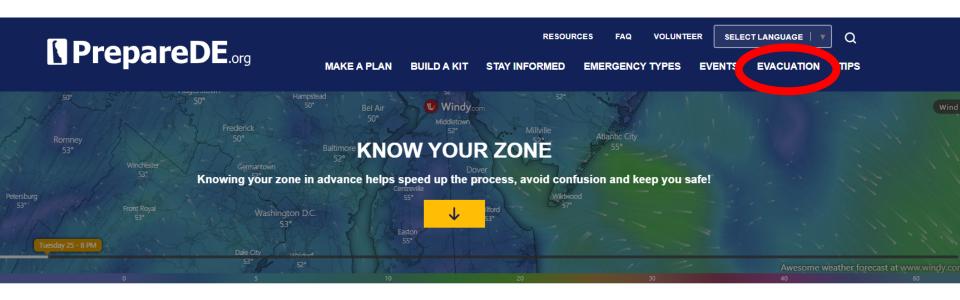
Evacuation zones are low-lying areas that are prone to flooding & storm surge: A, B, C, D



Chester

Wilmington

Know Your Zone: https://preparede.org/know-your-zone/









Evacuation Procedures and Shelters



Shelter, Hurricane Irene 2011

- Make a plan for how you will leave and where you will go
- Take an emergency supply kit
- Head evacuation instructions
- Keep full tank of gas
- Use shelters as a last resort
- Bring ID and proof of address

Household Communications Plan

- Write down phone numbers and email addresses of household members
- Become familiar with the emergency response plans of schools, daycare and workplaces
- Identify an out-of-town individual that each member calls to report location and condition
- Designate emergency meeting places
- Make copies of the plan for each member to carry

Emergency Supply Kits

- Create At-Home and Evacuation Kits
- Have Basic Necessities of Food, Water, Medicine,
 Sanitary Items for At Least 3 Days



Pets and Service Animals

- Create a pet emergency supply kit
 - 3 days supply of food, medications, water, blanket
 - Photo of you and your pet together
 - Pet adoption and vaccine records
 - Leash and traveling crate
- Pet should wear collar with rabies tag and ID tag
- Create a buddy system to help with your pet







Health and Mobility Needs

- Obtain early refills of prescriptions
- Keep medication in water-tight bags or containers
- Store single use ice paks for refrigerated medications
- Have back ups for assistive devices if necessary
- Identify plan B for life-sustaining treatment
- Write down medications, doctors, allergies, etc.







Create a Support Network

- Who Are Your "Preparedness Buddies?"
- Periodically Touch Base and Update Them



Share:

- Communications Plan
- Copies of Keys
- Medical Information
- Instructions On the Use of Medical Equipment



Sheltering in Place

- Safeguard important paperwork
- Know how to turn off your electric and gas
- Do not operate generators indoors
- Secure outside furniture, lawn ornaments
- Place containers of frozen water in refrigerator
- Fill laundry machine with water



Protect Your Property

- Elevate utilities or install barriers
- Install back flow valves
- Trim tree branches and shrubs
- Clear gutters, drainage ditches
- Seal basements and crawlspaces
- Install a flood alert system









Invest in Flood Insurance

- Renters and homeowner's policies typically do not cover flooding
- Federal assistance to the non-insured is limited
- More than 20% of flood claims come from outside of high risk flood zones
- Insurance policies take 30 days to go into effect
- Visit FloodSmart.gov for more information



COMMUNITY EMERGENCY RESPONSE TEAM



Invest in Community Preparedness, Response and Recovery

- Support the expansion of social services in your area
 - Particularly to vulnerable populations
- Volunteer in networks
- Organize a Community Emergency Response Team (CERT)
- Support investments in flood mitigation and community resilience





Community Resiliency Begins With YOU: Know Your Risks Plan for the future Act NOW