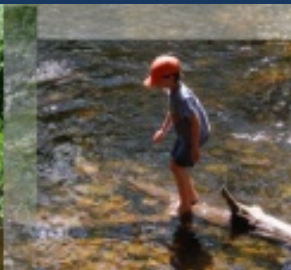
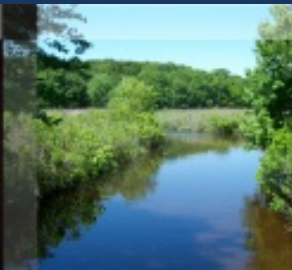




# Connecticut Department of Energy and Environmental Protection



Connecticut Department of  
**ENERGY &  
ENVIRONMENTAL  
PROTECTION**

# Flood Management Program & Public Act 18-82

## **DEEP, Land & Water Resources Division**

Jeff Caiola, Supervising Civil Engineer

[jeff.caiola@ct.gov](mailto:jeff.caiola@ct.gov)

*October 2018*



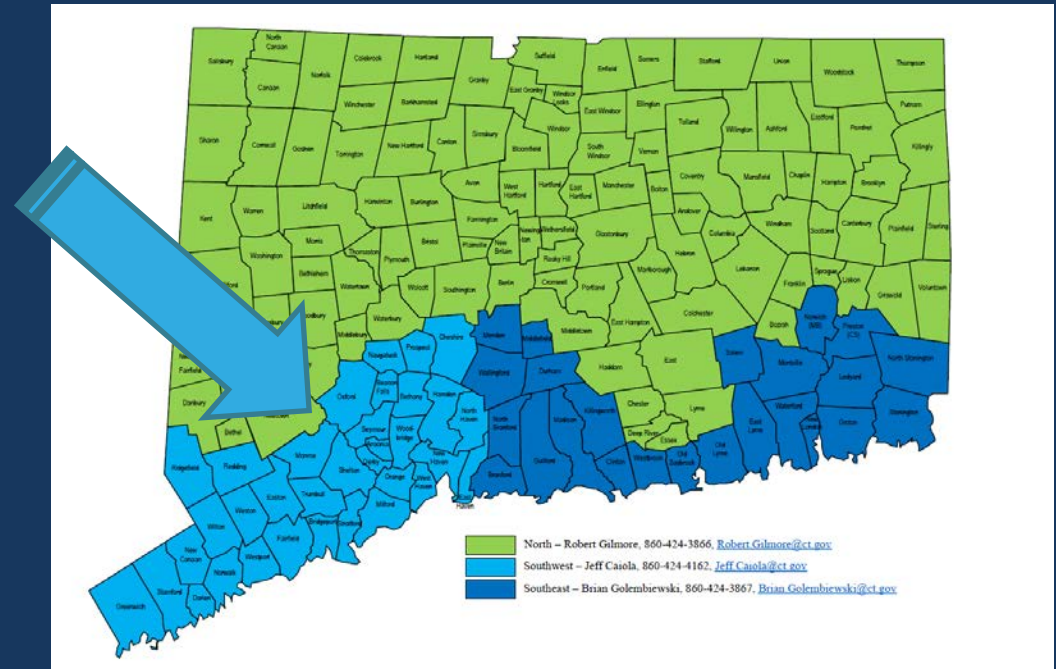
Connecticut Department of Energy and Environmental Protection

# Land and Water Resources Division

LWRD - 3 Regulatory Regions  
North, Southeast & Southwest

## Southwest Regulatory Region

- Site Specific Decisions for all LWRD programs
- Administration of the Flood Management Program
- Resiliency
- NFIP Coordinator
- Dredging Program



# A Reminder of Why Flood Management ?



**Hurricane 1938**



**Sandy 2012**





# A Reminder of Why Flood Management?



September 2018

The National Weather Service recorded 7.3 inches of rain in some areas of the state which yields just over a 500 year storm for a 6 hour duration



Connecticut Department of Energy and Environmental Protection

# A Reminder of Why Flood Management?

October 2, 2018  
Bridgeport South End



Connecticut Department of Energy and Environmental Protection

# Resiliency Integrated into our Programs



# Flood Management & Resiliency

- Foundation of the Flood Management Program
- What am I Certifying to?
- Highlight of Public Act 18-82
- Flood Management & Public Act 18-82





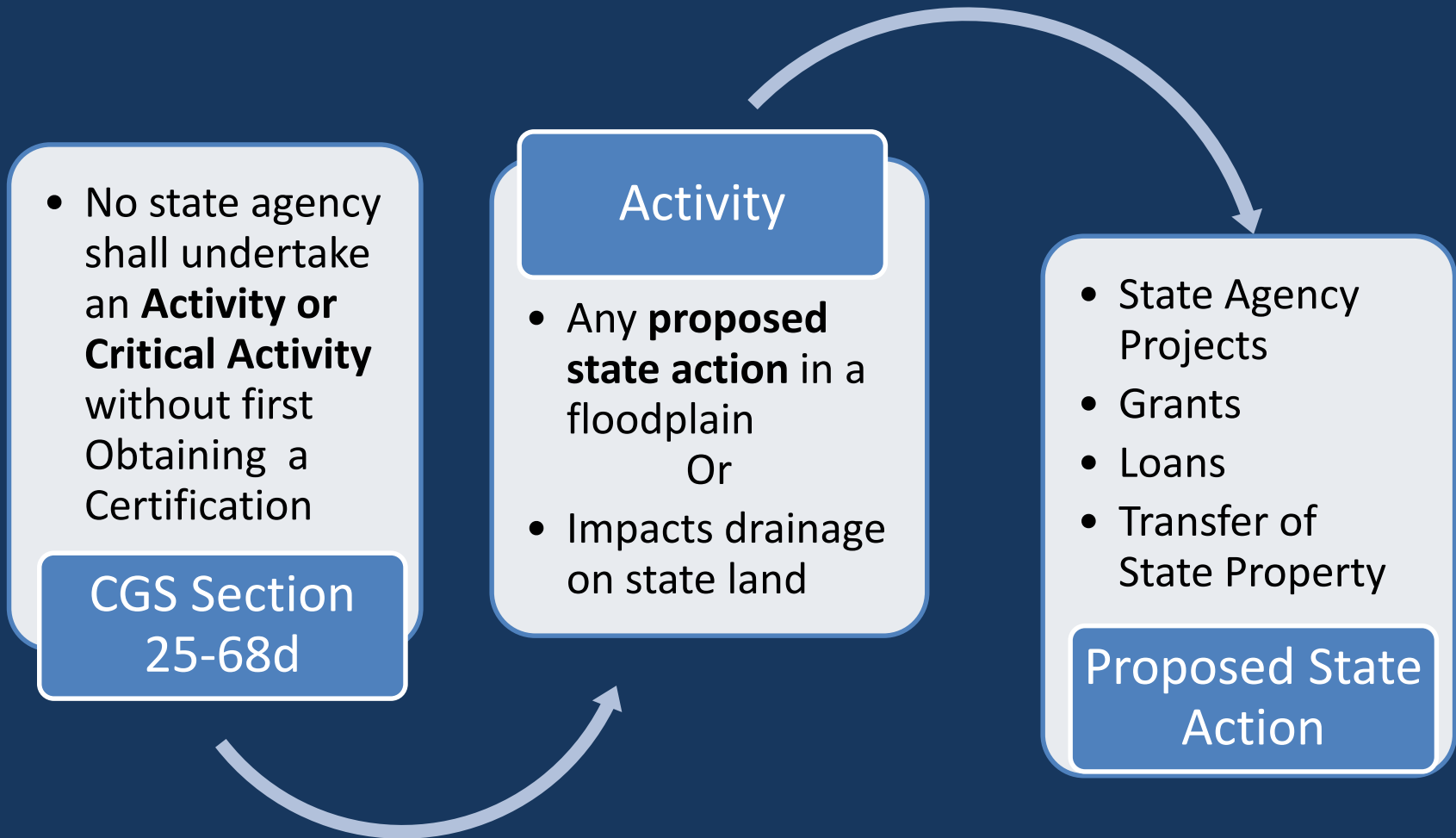
# Foundation of the Flood Management Program

## Executive Order 18 - Gov. Ella Grasso (June 1977)

- Lessen the risk of flood losses in connection with state lands and installations and state financed or supported improvements
- All state agencies responsible for the administration of grant or loan programs .....  
Shall preclude the uneconomic, hazardous, or unnecessary use of floodplains
- ALL state agencies with programs that affect land use planning shall encourage land use appropriate to the degree of hazard



# When Do I need a Flood Management Certificate?



# Certification Process

## What must An agency certify to?

1.
  - Will not obstruct flood flows or result in an adverse increase in flood elevations,
  - Significantly affect the storage or flood control value of the floodplains,
  - Cause adverse flooding upon upstream or downstream properties,
  - Pose a hazard to human life, health or property in the event.....  
..... of a base flood or base flood for a critical activity.



# Certification Process

2. Complies with the provisions of the **National Flood Insurance Program (NFIP)**

3. Has acquired.... easements and property in floodplains when the base flood or base flood for critical activity is elevated above the increment authorized by the NFIP or loss of storage cause adverse increase in base flood flows



# Certification Process

4. Promotes long-term non-intensive floodplain uses and has utilities located to discourage floodplain development.





# Certification Process

5. Has considered and will use to the extent feasible flood-proofing techniques to protect new and existing structures



6. Has flood forecasting and warning capabilities consistent with the system maintained by the National Weather Service and has a flood preparedness plan.



# Public Act 18-82 – An Act Concerning Climate Change Planning And Resiliency

- Public Act 18-82 signed by the Governor on 6/6/2018
- DEEP held a public Hearing 10/2/18 concerning the update of a Sea Level Change Scenario



CIRCA's prediction for Sea Level Rise (SLR) is 50 centimeters or (20 inches) by 2050.



# Public Act 18-82 – An Act Concerning Climate Change Planning And Resiliency

- Within available resources and not less than once every ten years, the Marine Sciences Division of The University of Connecticut shall publish a sea level change scenario (most recent)
- Flood Management Act - Modified the definition of Flood-proofing to incorporate the latest sea level change scenario.
- Shall guide the following municipal and state planning documents:  
(coastal flooding and erosion)
  1. Municipal evacuation or hazard mitigation plans;
  2. The state's civil preparedness plan and program;
  3. Municipal plans of conservation and development; and
  4. Revisions to the state's plan of conservation and development.



# Public Act 18-82 & Flood Management

## Definitions Flood Management

**"Flood-proofing"** means any combination of structural or nonstructural additions, changes or adjustments which reduce or eliminate flood damage to real estate or improved real property, to water and sanitary facilities, and to structures and their contents, including, but not limited to, for properties within the coastal boundary, as established pursuant to subsection (b) of section 22a-94, not less than an additional two feet of freeboard above base flood and any additional freeboard necessary to account for the most recent sea level change scenario updated pursuant to subsection (b) of section 25-68o, as amended by this act;

def·i·ni·tion  
defə<sup>1</sup>niSH(ə)n

noun

a statement of the exact meaning of a word, especially in a dictionary.



# Public Act 18-82 & Flood Management

## Definitions Flood Management

**Base Flood** - means that flood which has a one per cent (activity) or .2 percent (critical activity) chance of being equaled or exceeded in any year, as defined in regulations of the **National Flood Insurance Program** (44 CFR 59 et seq.)

def·i·ni·tion

defə<sup>1</sup>niSH(ə)n

noun

a statement of the exact meaning of a word, especially in a dictionary.





# Flood Management Program

## Section 25-68h-2. Floodplain Management Standards

(a) All state activities shall conform to the Federal Emergency Management Agency National Flood Insurance Program requirements, specifically Part 60 – Criteria For Land Management and Use, Subpart A Sections 60.3, 60.4, and 60.5



(b) The following restrictions shall pertain to all new and substantially improved structures located within the floodplain.

(1) Structures shall not be designed for human habitation unless elevated with the lowest floor one foot above the level or base flood.

**+2 FT**

A white arrow with a blue outline points from the text '+2 FT' to the word 'one foot' in the text below. This indicates a correction or update to the standard.

# Public Act 18-82 – An Act Concerning Climate Change Planning And Resiliency

<https://circa.uconn.edu/2018/03/27/sea-level-rise-projections-for-the-state-of-connecticut-webinar-recording-available/#>

## **PUBLIC ACT 18-82**

<https://www.cga.ct.gov/2018/act/pa/pdf/2018PA-00082-R00SB-00007-PA.pdf>



# Flood Management Program

## Questions?



**DEEP, Land & Water Resources Division**  
Jeff Caiola, Supervising Civil Engineer  
jeff.caiola@ct.gov  
*October 2018*



Connecticut Department of Energy and Environmental Protection