

## Emergency Preparedness Strategy & Connecticut's Public Drinking Water Systems

Lori Mathieu, Public Health Section Chief Drinking Water Section Connecticut Department of Public Health EPA Region 1 Hurricane Summit & EMAC Workshop, Boston, MA June 5, 2013 Drinking Water Section

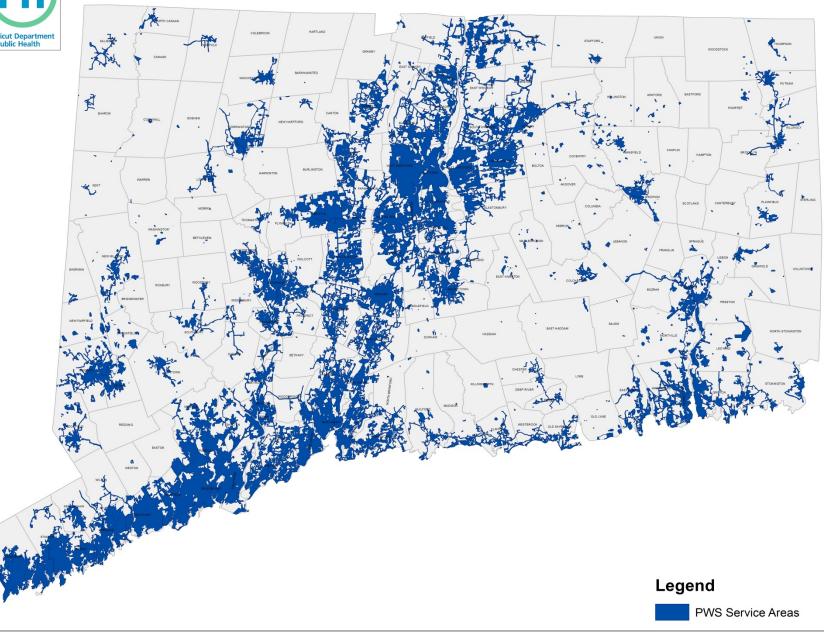


## CT DPH Drinking Water Section Responsibilities

- Regulate over 2,500 Public Water Systems with 4,400 sources
- 2.9 million CT residents served 3.5 million total population
- 96 systems serve over 1,000 people
- 461 systems serve under 1,000 people small community systems
- 2,028 non-community systems



#### Public Water Supply Service Area





**Emergency Preparedness CT's Public Water Systems** 

Storm Effects

#### ♦ Lessons Learned – After Actions

Preparedness & Communications



## **Storm Irene August 2011**

- 137 small community public water systems (cpws) on Boil Water Advisory (30% of small cpws)
- ♦ 16,624 people affected
- 99% of CT Residents retained their community public water
- Majority of large cpws on shoreline lost street power, however operations not affected due to emergency power capacity, street power restored in a few days, flooding had little effect

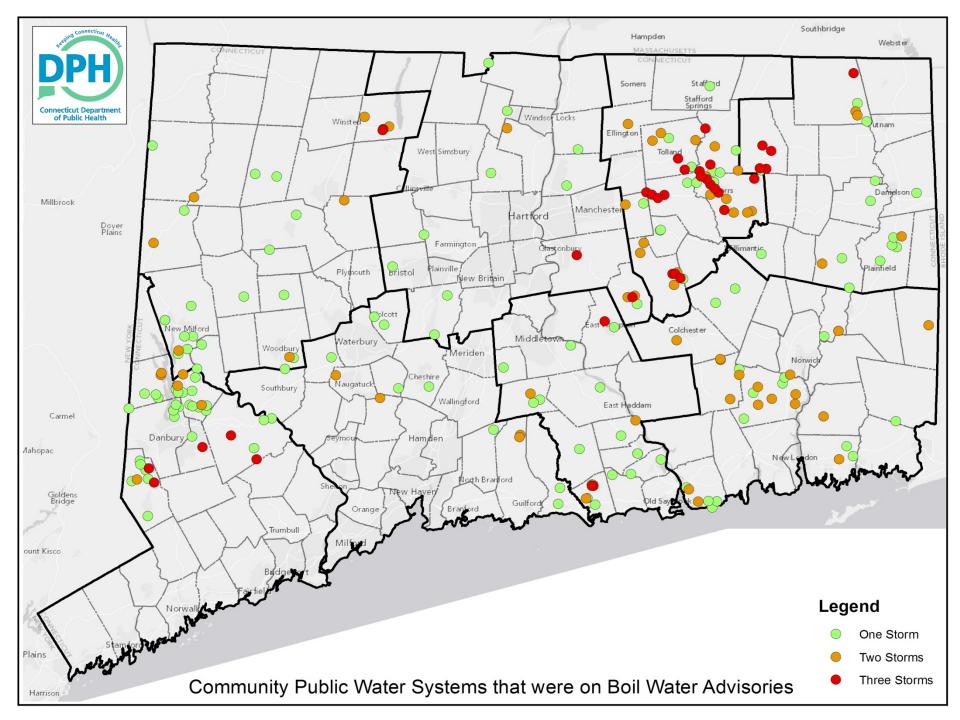


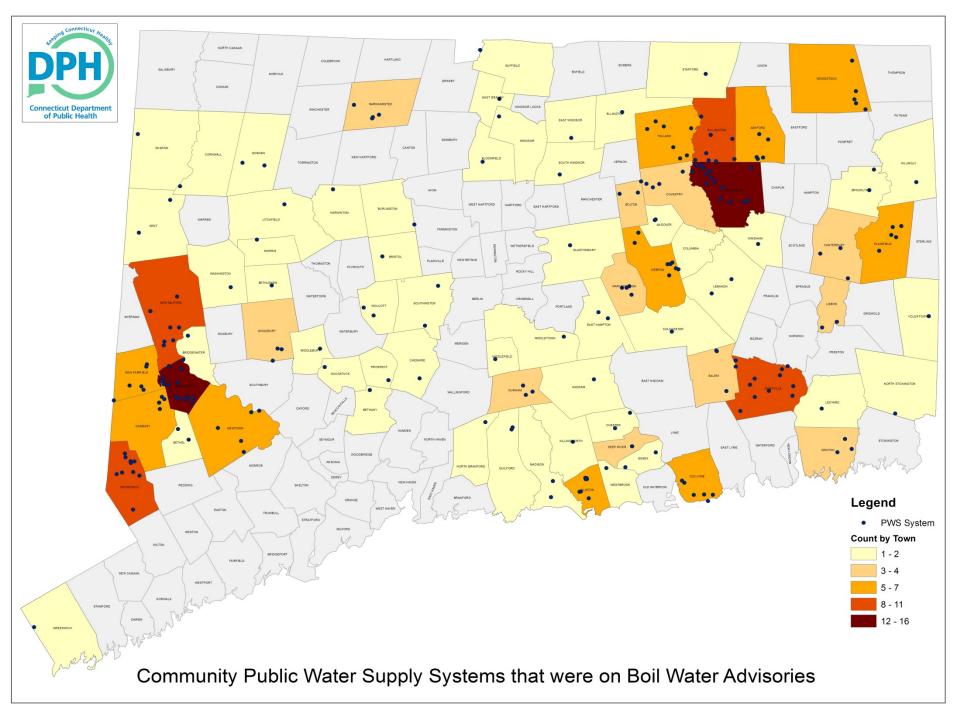
## **Storm Alfred October 2011**

- 121 small community public water systems (cpws) on boil water advisory
- ♦ 20,212 people affected
- 98% of CT Residents retained their community public water
- Majority of large cpws along and north of I-84 lost street power, however operations not affected due to emergency power capacity, street power restored slowly some large cpws without street power for 8 to 9 days

# Storm Sandy October 2012

- 109 small community public water systems (cpws) on boil water advisory
- ♦ 14,740 people affected
- >99% of CT Residents retained their community public water
- Boil Water Advisory 36 small cpws issued for all three storms; Most large cpws operations not affected due to emergency power capacity
- Large shoreline cpws on generators for 8 to 9 days, priority street power restoration a concern







## Storm Effect Community PWS

- Community Public Water System population effected by three storms 4,766 (36 systems)
- Small systems lack of responsiveness, difficulty with communications (weekend and office closure), lack of planning and preparedness
- Large systems stable through storms, systems on extended generator power, lack of priority status for power restoration, communication coordination was labor intensive



## Lessons Learned - After Actions Plan, Prevent, & Partner

#### Public Health Risk Reduction – Proactive Focus

♦ Preparedness

Communications



#### **Preparedness** Small Community PWS

- Develop new regulations require emergency plans and emergency power capacity, and asset management planning
- Created DWSRF Focus Point Small system generator funding – initiated 11/2011
- Develop Training program small system owners initiated 6/2013



Communications Community PWS

- Develop new regulation concerning proper notification to the state DPH
- Create new WebEOC templates system status updates

Promote collaborative continuous training with State Emergency Managers, power companies, local health, and EMDs – include CT Section AWWA Committees and CTWARN



## Timeline

#### Regulations – drafted & moving forward by end of 2013

Training - continuous and ongoing

 DWSRF - Focus Point continuous for generator purchase

 Future Initiatives – analyze policies for system sustainability, consolidation, & ownership transfer



#### **Thank You**

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