Public Water System
Vulnerability Assessment & Resiliency Plan

Connecticut Department of Public Health
Drinking Water Section
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CIRCA Workshop April 6, 2018
Groton, CT
Significant Events
*Irene, Alfred and Sandy*

- Extreme Weather events of 2011 & 2012 effected hundreds of small public water systems –
  - 100s of Boil Water Advisories
  - Impossible or difficult communications
  - lack of capacity
  - lack of planning
  - lack of preparedness
  - over 50% of small systems negatively effected
  - Legislative concerns
Community Public Water Systems that were on Boil Water Advisories

Legend:
- Green: One Storm
- Orange: Two Storms
- Red: Three Storms
Significant Events

- Multiple Small Systems failing due to:
  - Absentee owners
  - Lack of responsible/knowledgeable owners
  - Certified Operators not responsive or lack of direct responsible charge
  - Lack of appropriate rates/no rates
  - Lack of financial oversight
  - Volunteers left to manage water system
  - General lack of understanding responsibility
Three Storm Strategy

- Assure sustained water supply for all CPWS
- Provide current and accurate large system status shared across WebEOC
- Work to develop mechanisms to prioritize restoration of street power to CPWS and priority facilities
- Assure that small community public water systems are prepared to proactively address emergency situations
- Assure system capacity
- Assure adequate certified operator oversight
- Work toward more resilient CPWS through enhanced water supply planning
Preparedness

- Emergency plans and emergency power capacity required
- DWSRF Small System Generator loans subsidized up to 45% - over 50 generators funded
- Require Asset Management & Fiscal Plans
- Develop Resiliency Planning
Planning

- Vulnerability Assessment and Resiliency Plan Proposal to Dept of Housing
- Contract with CIRCA
- Plan development
Thank You