

Impacts of Disaster on Public Drinking Water Systems

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- Kootenai County Office of Emergency Management



Background & Terminology



- Disaster

“...the occurrence of a sudden or major misfortune which disrupts the basic fabric and normal functioning of a society or community.”



Background & Terminology



- Hazard

A condition or physical situation with a potential for an undesirable consequence, such as harm to life or limb.





- Risk

A measure of the probability that damage to life, property and/or the environment will occur as a result of a given hazard.



Types of Natural Disasters That occur in Idaho



- Flood
- Severe Weather
- Wildfire
- Drought
- Landslide
- Earthquake



WILDFIRE



- Cape Horn Fire – November 2015
- Loss of Power impacted Water Pumps and Fire Fighting Capabilities



Cape Horn on the north side of Bayview, ID consumed by fire.

Ted Curphey - 2015 

Severe Weather



- High Winds
- Damaging Hail
- Heavy Rain
- Dangerous Lightning
- Snow Storm
- Ice Storm



WINDSTORM



*November 2015 Windstorm called “historic”
leaving more people in the dark than
1996 Ice Storm*



ICE STORM



- Icing of Power Lines
- Possible rupture of water lines
- Personal safety issues



DROUGHT



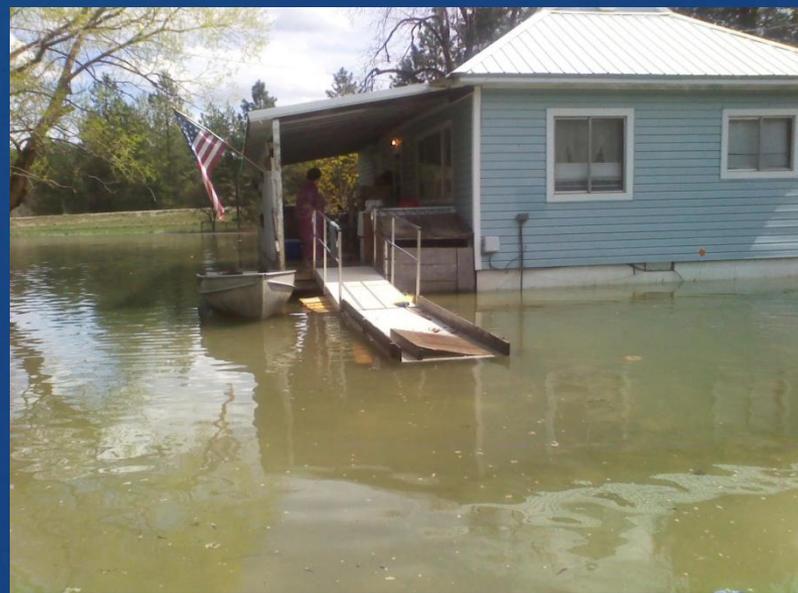
- Stresses source water supplies
- Stresses distribution system (high demand)
- Can lead to “rationing”
- Increased risk of fire hazards can impact fire fighting needs



FLOOD



- Floods can occur in just about any low lying area.
- Possible overflow can contaminate treated water or compromise plant operations



Man-Made Disaster



- Industrial Accidents /Train Derailment (2016 Mosier, OR)
- Chemical Spills
- Fires
- Intentional Damage



Are You Prepared?



- Do you have an Emergency Plan?
- Trained to Plan?
- Identified resources you may need in a disaster / shared this information?
- Have Memorandum's of Understanding or Mutual Aid Agreements in place?



Response



- Activate Plan
- Activate MOU's and MAA's
- Assess disaster impact
- Provide agencies (i.e., DEQ, OEM) with information essential to providing you assistance
- Document and track disaster costs!



Criteria for Public Assistance

- Applicant Eligibility
 - Special district established under State law
 - Private Nonprofit Organizations that owns or operates a facility that provides an eligible service
- Eligible Facility / Water Distribution System
 - Provides a critical services which is defined as utility / irrigation to provide water for drinking water supply, fire suppression, or electricity generation



Criteria for Public Assistance

- Minimum Work Eligibility Criteria
 - Be required as a result of the declared incident
 - Be located within the designated area
 - Be the legal responsibility of an eligible applicant



Criteria for Public Assistance

● Cost Eligibility

- Directly tied to the performance of eligible work
- Adequately documented!
- Reduced by all applicable credits, such as insurance proceeds and salvage values
- Authorized and not prohibited under government laws or regulations

Criteria for Public Assistance

● Cost Eligibility

- Consistent with the applicant's internal policies, regulations and procedures
- Necessary and reasonable to accomplish the work properly and efficiently
- Applicant Force Account Labor
 - Applicant's personnel



Eliminate or lessen impact:

- Identify Mitigation Actions
- Identify funding sources
- Identify project partners
- Participate in Mitigation Plan update



QUESTIONS?



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