



# WY WARN

Wyoming Water and Wastewater Agency Response Network

Presented at

by





# WYOWARN

Wyoming Water and Wastewater Agency Response Network

## What is WYOWARN?

A network of Wyoming water and wastewater utilities that cooperatively prepare for the next natural or man-made disaster by bridging political and jurisdictional boundaries through a common, statewide mutual aid and assistance agreement.

The common, statewide mutual aid and assistance agreement establishes protocols and responsibilities so that personnel, equipment and supplies may be readily shared.



# What kind of events do we face in Wyoming?



In the event of an emergency, what would it take to restore service?



# Lessons we can derive from experiences in other places

- Utility operations and repair require specialized personnel familiar with technologies, local regulatory requirements and accustomed to local weather challenges.
- Utilities must be self-sufficient and fill the gap between event onset and arrival of other governmental aid.
- Customers can live without power or phone, but conditions degrade rapidly without water and wastewater.
- Emergency response efforts typically rely on water and wastewater services and is more efficient when resources are restored.
- Restoring water and wastewater service restores hope to a community struggling in the aftermath of a disaster.

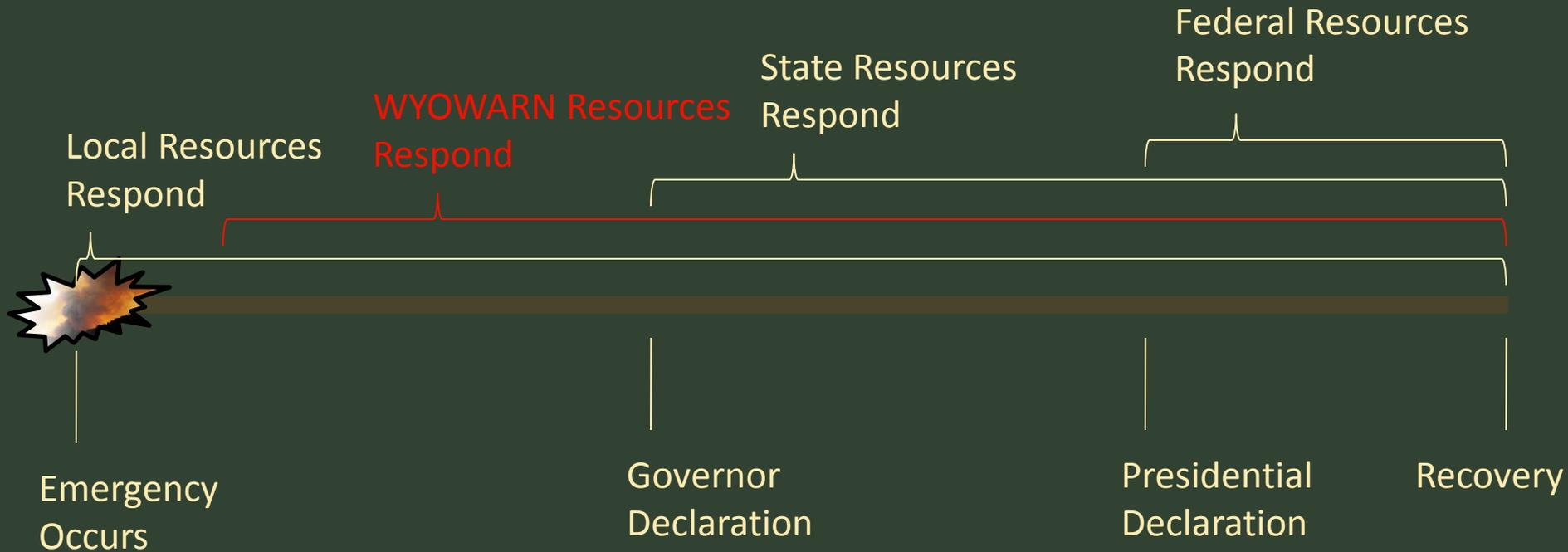


# WYOWARN offers Utilities

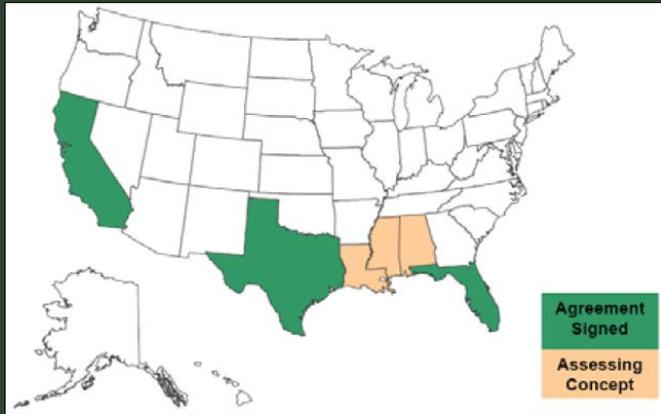
- Common, statewide mutual aid and assistance agreement.
- A forum for developing and maintaining emergency contacts, relationships and training.
- Emergency access to Wyoming utility operators familiar with Wyoming water quality rules and regulations, water and sewer systems found in Wyoming and prepared for Wyoming's climate.
- Resources to respond and recover quickly from natural and man-made events.
- A mutual aid and assistance program consistent with other statewide programs and consistent with the National Incident Management System.



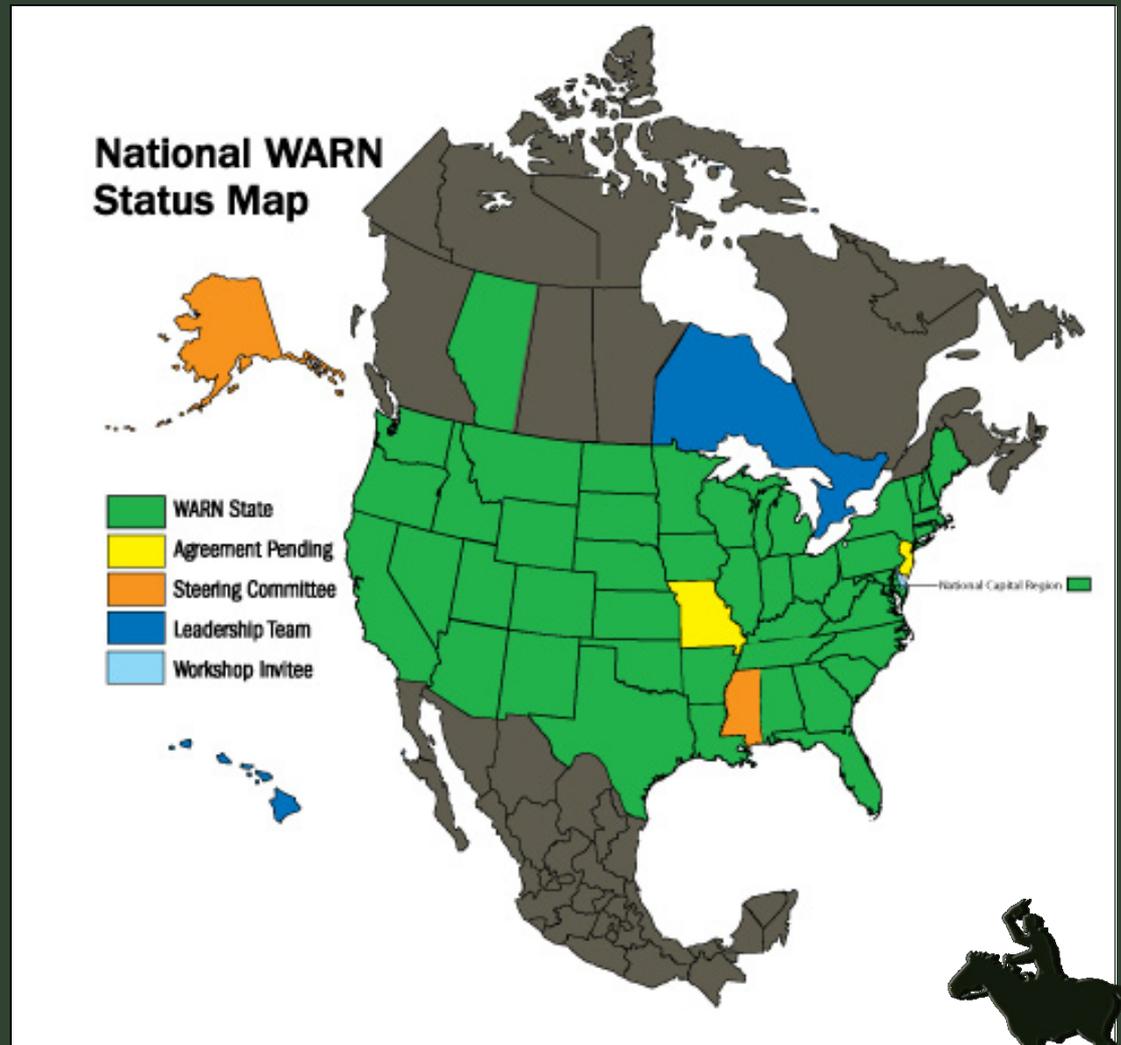
# How does WYOWARN work?



April 2006



Today



The WARN program has earned multiple emergency management recognitions for innovation and practicality in managing small, local and large disaster conditions:

- 2007, Emergency Management Assistance Compact (EMAC) Advisory Board Member, National Emergency Management Association
- 2007, Partners in Preparedness Award, International Emergency Managers Association
- 2006, Recognized as a Best Practice by National Incident Management System Integration Center

Responding WARNs have successfully assisted in:

- 2005 Hurricane Katrina, Rita and Wilma (FlaWARN)
- 2007 Southern California Wildfires (CalWARN)
- 2008 Detroit, Oregon Blizzard (ORWARN)
- 2008 Waterborne *Salmonella* outbreak Alamosa, CO (CoWARN)
- 2008 Hurricane Gustav (LaWARN)
- 2008 Hurricane Ike (TxWARN)
- 2009 Ice Storm (ARWARN, TNWARN, KYWARN)
- 2010 Baja California Earthquake (CalWARN)

# Items being addressed at a national level

- WARNs in all states
- Interstate mutual aid and assistance through EMAC – especially important in Wyoming where the nearest assistance may be in another state.
- Assisting state WARNs in developing Operational Plans
- Regional exercises





# WYOWARN

Wyoming Water and Wastewater Agency Response Network

## WYOWARN Member Utilities

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City of Casper

City of Cheyenne

City of Gillette

City of Riverton

City of Torrington

Shoshone Municipal Pipeline

South Cheyenne Water and Sewer District

Town of Baggs

Town of Bear River

Town of Burns

Town of Dixon

Town of Elk Mountain

Town of Hanna

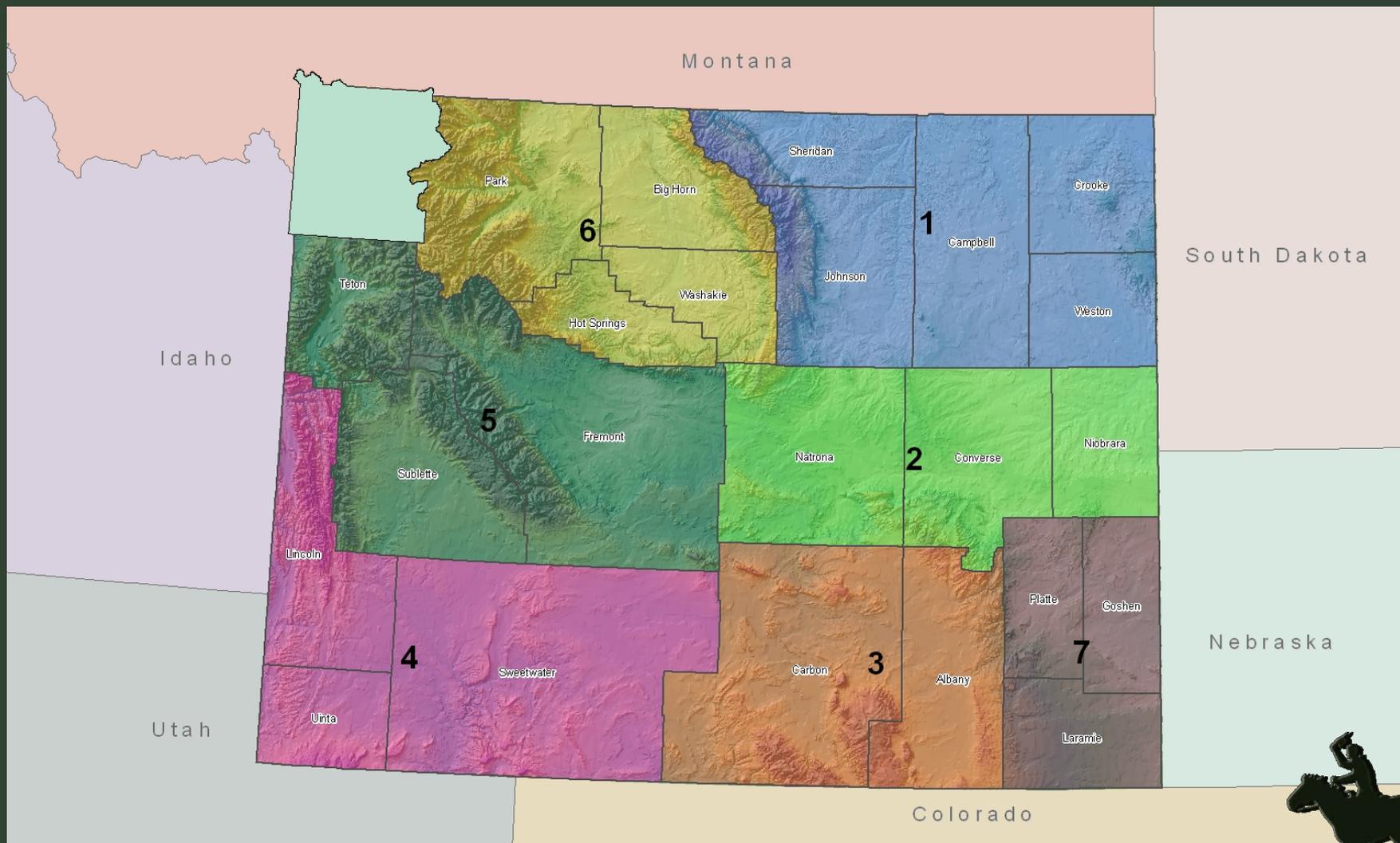
Town of Pine Bluffs

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# WYOWARN Regions

Regions match Wyoming OHS Regional Emergency Response Team Regions



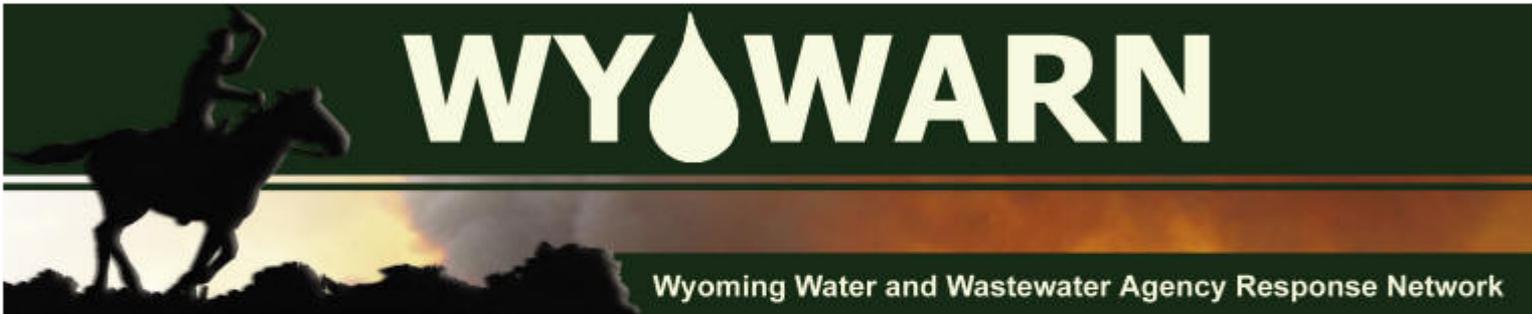
# Where can I learn more?

WYOWARN Home - Windows Internet Explorer

http://www.wyowarn.org/index.htm

File Edit View Favorites Tools Help

WYOWARN Home



# WYOWARN

Wyoming Water and Wastewater Agency Response Network

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[Join WYOWARN](#)

[Request Assistance](#)

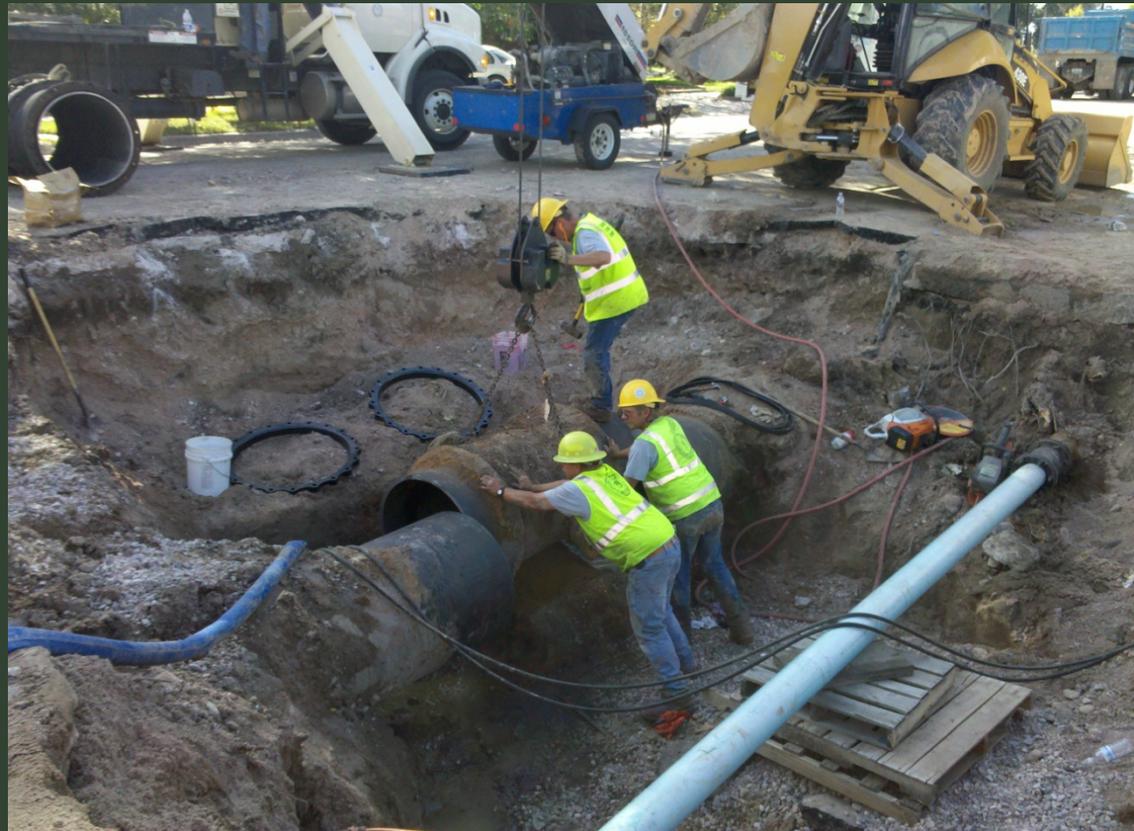
Tornado in Wright, WY, 2005



# How to: Request Assistance

## 1. Determine what you need

Example: Need assistance with a 30" water main break.



# Use the AWWA Resource Typing Manual

- Categorizes response resources such as personnel, teams, facilities, supplies and major equipment items so everyone is quickly talking about the same thing.
- Download copy at [www.wyowarn.org](http://www.wyowarn.org)
- Types resources
  - Type I is largest and most comprehensive (Think complete teams and all equipment.)
  - Type IV is smaller (Think partial team or limited equipment.)

# Example

**RESOURCE: WATER DISTRIBUTION SYSTEM DAMAGE ASSESSMENT AND REPAIR TEAM**  
**AWWA April 2008**

**Category: Public Works and Engineering (ESF 3) Subcategory: Water and Wastewater Kind: X Team**

Component	Metric	Type I	Type II	Type III	Type IV
Capability	Diameter (in.) of mains repaired	24"+	10"-22"	2" - 8", including services and small meters	Portion of Type I – III Teams
Ideal Team Size	Total persons	6 - 8	5 - 7	4 - 5	1 - 3
Team Composition	Team member capabilities for assessments and repairs indicated	1 Team leader 1 Backhoe-loader operator 1 - 2 Tandem dump truck drivers 1 Lead repair technician 1 - 2 Utility workers 1 Welder if steel mains indicated	1 Team leader 1 Backhoe operator 1 - 2 Dump truck drivers 1 Lead repair technician 1 - 2 Utility workers 1 Welder if steel mains	1 Team leader 1 Backhoe operator 1 Dump truck driver 1 - 2 Utility workers 1 Welder (if steel)	Any portion of Type III that can be provided
Vehicles and Heavy Equipment	Number and type of vehicles and heavy equipment	1 Medium track excavator 1 Backhoe-loader 1 - 2 Tandem Dump trucks 1 Team / equipment tk. w/ boom	1 Medium track excavator 1 Backhoe-loader 1 - 2 Tandem Dump trucks 1 Team / equip. tk. w/ boom	1 Backhoe-loader 1 - 2 Tandem Dump trucks 1 Team / equip. tk.	Any portion of Type III that can be provided
Other Equipment	Other specific equipment	Air compressor, mud pump, welder (if steel) and necessary pneumatic, small power tools and hand tools for repairs indicated	Air compressor, mud pump, welder (if steel) and necessary pneumatic, small power tools and hand tools for repairs indicated	Air cmprsr., mud pump, welder (if steel) and needed pneumatic, small power tools and hand tools for repairs	Any portion of Type III that can be provided
Materials	As needed for repairs indicated	Repair couplings, sleeves and associated materials and expendable supplies for 60 assorted main repairs	Repair couplings, sleeves and associated materials and expendable supplies for 60 assorted main repairs	Repair couplings, sleeves and asstd. mtrls. & expendable supplies for 60 assorted main repairs	NA

# How to: Decide to respond

- Must be able to meet all of the following:
  1. Have the resources requested or can team with another utility to provide resources.
  2. Can respond.
    - In regional events, like storms or earthquakes, a utility may be busy with their own challenges and can not respond.
  3. Willing to respond
    - In a flu epidemic, operators may not want to leave family or be exposed in a high flu area.
- Discretion Clause – signing agreement does not create duty to respond.

# WYOWARN also provides

- Basic Emergency Response Plan
- WYOWARN emergency operations plan.
- Contact names and numbers of WYOWARN members
- AWWA resource typing manual
- Network of water professionals to ask questions and help generate ideas to challenges.

# Is there a cost to participate?

- No, WYOWARN is coordinated by fellow operators and staff at neighbor utilities. There are no fees, dues or other similar costs.
- May have some travel costs if utilities choose to participate in training, meetings, etc. But these are limited.
- Communicate and share information mostly through phone, e-mail and website.

# FEMA Recommended Training

- IS 100 (PWA) – Introduction to Incident Command System (ICS)
- IS 200 – ICS for Single Resources and Initial Action Events
- IS 700 – National Incident Management System, An Introduction
- IS 800 – National Response Framework, An Introduction

# Training continued

- CEU's and college credit available
- Can be completed at work or home at

Visit <http://training.fema.gov>