



WARN Overview: Water & Wastewater Agency Response Network

Utilities Helping Utilities

PNWS-AWWA Conference
Boise, ID
May 5, 2016

Shelley Roberts
Chair
Idaho WARN

Bill Carr
Boise Region Rep
Idaho WARN

Objectives

- 💧 What is a WARN? Why is WARN needed?
- 💧 How do WARN's work?
- 💧 Benefits of a WARN
- 💧 How do WARN's fit within Emergency Response and Recovery?
- 💧 How did WARNs get started?
- 💧 Status of WARN nationally
- 💧 Getting Involved Locally

What Is a WARN?

- 💧 Network of utilities helping utilities
 - 💧 Water/Wastewater Agency Response Network (WARN)
 - 💧 Not a corporation or a governmental unit
 - 💧 Both public and private utilities
- 💧 For emergency preparedness, response, and recovery activities
- 💧 United by a common enemy -
 - 💧 Natural disasters
 - 💧 Human-caused disaster
- 💧 **No cost to join - - - No obligation to respond!**

What Is a WARN?

- Utilities organized within a state
 - By agreement - Intrastate mutual aid agreement
 - Provides utility-to-utility sharing of resources: personnel, equipment, etc.
- May be activated with or without any type of disaster declaration
- Pre-established agreement. Once signed, ready anytime.
- Meets FEMA requirements for mutual aid
- Complies with NIMS (National Incident Management System) requirements

Because “stuff” happens utilities will need HELP!



Significant Disasters in the US

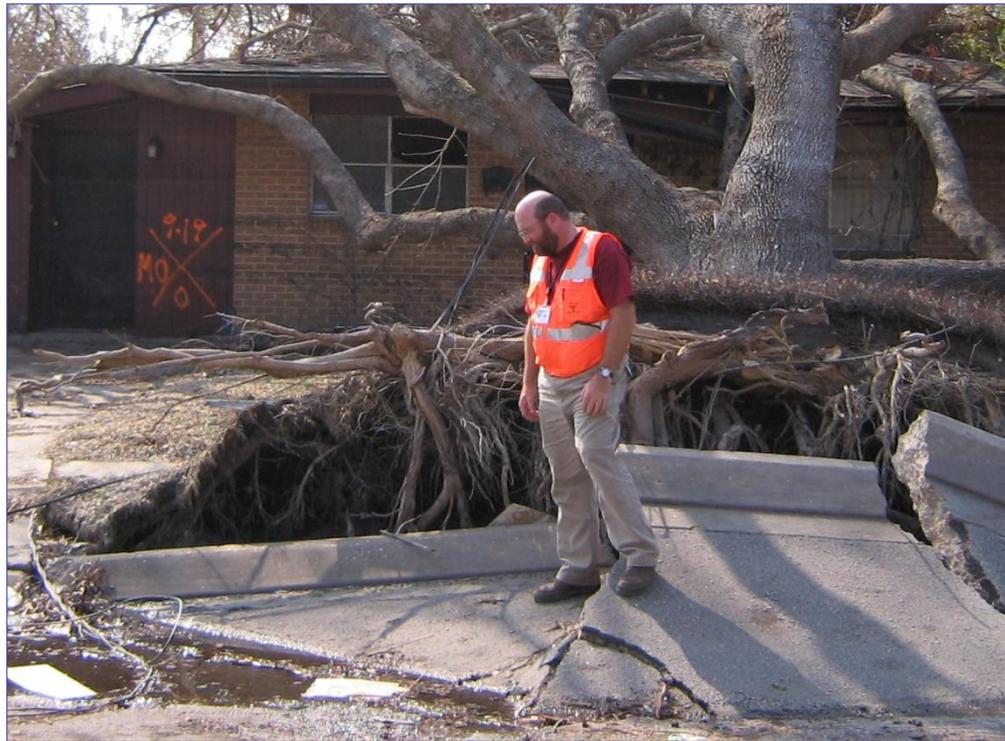
- December 7, 1941 Pearl Harbor
- April 19, 1995 Oklahoma City
- September 11, 2001 World Trade Center
- August 29, 2005 Hurricane Katrina
- November 2013 Super Storm Sandy

Regional Disasters 2006-2014

- 💧 Washington 44 declared disasters
 - 💧 Severe winter storm, flooding, landslides, record snow, fire, tidal surge
- 💧 Oregon 22 declared disasters
 - 💧 Severe winter storm, flooding, landslides, tsunami wave damage, fire
- 💧 Idaho 11 declared disasters
 - 💧 Flooding, landslides, fire, severe winter storm

New Orleans 2005 after Katrina

**500 utility vehicles
destroyed by flooding – No
way to do repairs**



**1000's of pipe breaks
and other severe
utility damage**

10.12.2005

Why WARN?

Lessons learned from Katrina

- 💧 Utilities are on their own until federal and state resources are mobilized (days to weeks)
 - 💧 FEMA is muscular, but not very agile
- 💧 Utility operations are specialized
 - 💧 Industry skill sets and certifications are only available in other utilities – FEMA and Army don't have
- 💧 Water restoration provides hope

Why WARN?

Lessons learned from Katrina

- ◆ Utilities need pre-disaster preparations
 - ◆ Emergency Response Plan
 - ◆ Staff trained in ICS/NIMS
 - ◆ Establish emergency contacts
 - ◆ Exercises to practice roles and scenarios
 - ◆ Business and operational continuity plan
 - ◆ Mutual Aid Agreements (MAA)

Water Sector Initiative: WARN Policy

- 💧 Joint policy statement, Feb 2006
 - 💧 8 major water organizations
 - 💧 Encourages the creation of intrastate mutual aid & assistance networks
 - 💧 Provides for greater water sector resiliency against natural or manmade incidents



Utilities Helping Utilities

Joint Policy Statement on Mutual Aid & Assistance Networks

The water sector is committed to a "Utilities Helping Utilities" concept and is taking steps to encourage utilities and local/state governments to establish intrastate mutual aid and assistance networks. The purpose of these networks is to provide a method whereby water/wastewater utilities that have sustained damages from natural or manmade events could obtain emergency assistance in the form of personnel, equipment, materials, and other associated services as necessary, from other water/wastewater utilities. The objective is to provide rapid, short-term deployment of emergency services to restore the critical operations of the affected water/wastewater utility.

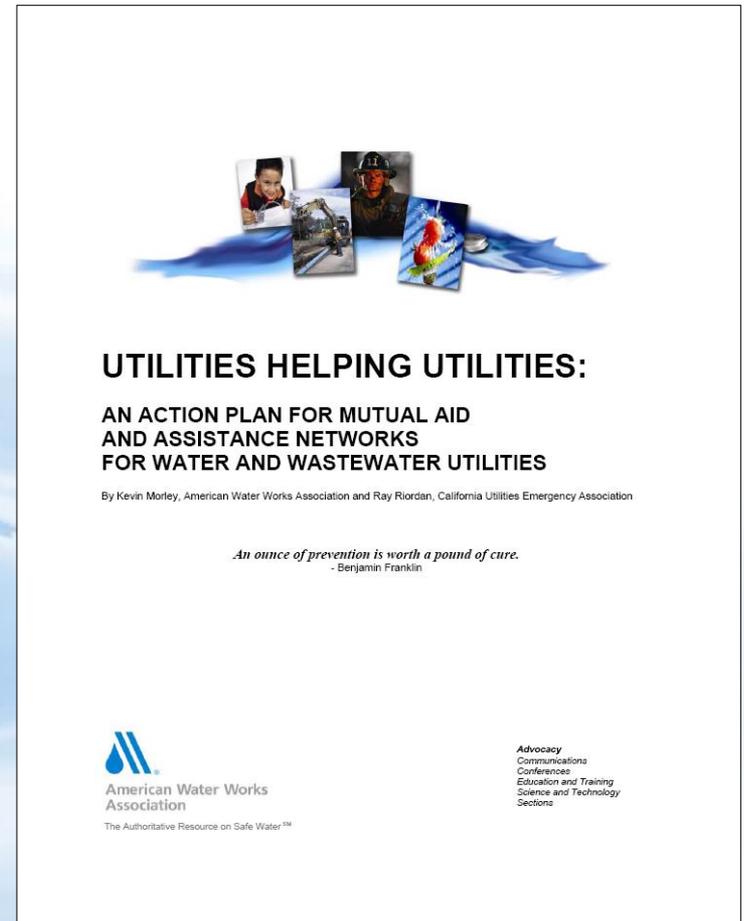
A pre-established agreement among a network of utilities can complement and enhance local capabilities to prepare for and respond to a broad range of threats, both natural and man-made. The establishment of such intrastate mutual aid and assistance networks is a core principle of the National Preparedness Goal developed by the Department of Homeland Security.

Formalizing the existing capability to provide mutual aid and assistance provides the water/wastewater sector with a degree of resiliency against natural or manmade disaster to ensure continuity of service to our sector's customers.

It is essential that all partners in the water and wastewater community work together to support this concept. We encourage our members to discuss this concept with peers and take the steps necessary to establish an intrastate mutual aid and assistance network.

Water Sector Initiatives: WARN Action Plan

- 💧 Utilities Helping Utilities,
March 2006
 - 💧 Outlines 10 key steps in the formation of a WARN
 - 💧 Includes sample agreement that satisfies NIMS and has been recognized by DHS NIMS Integration Center as a model agreement



National Preparedness Goal

- Purpose is to help entities at all levels of government develop and maintain the capabilities to prevent, respond to, and recover from major events or incidents of national significance.
 - Key Priority: Expand regional collaboration through mutual aid agreements and assistance compacts

National Incident Management System (NIMS)

- Full compliance with NIMS is an eligibility condition for all federal preparedness assistance grants for state, territorial, tribal, & local entities.
 - These criteria include formalizing mutual aid agreements with surrounding communities and states for the purposes of sharing equipment, personnel, and facilities during emergencies.



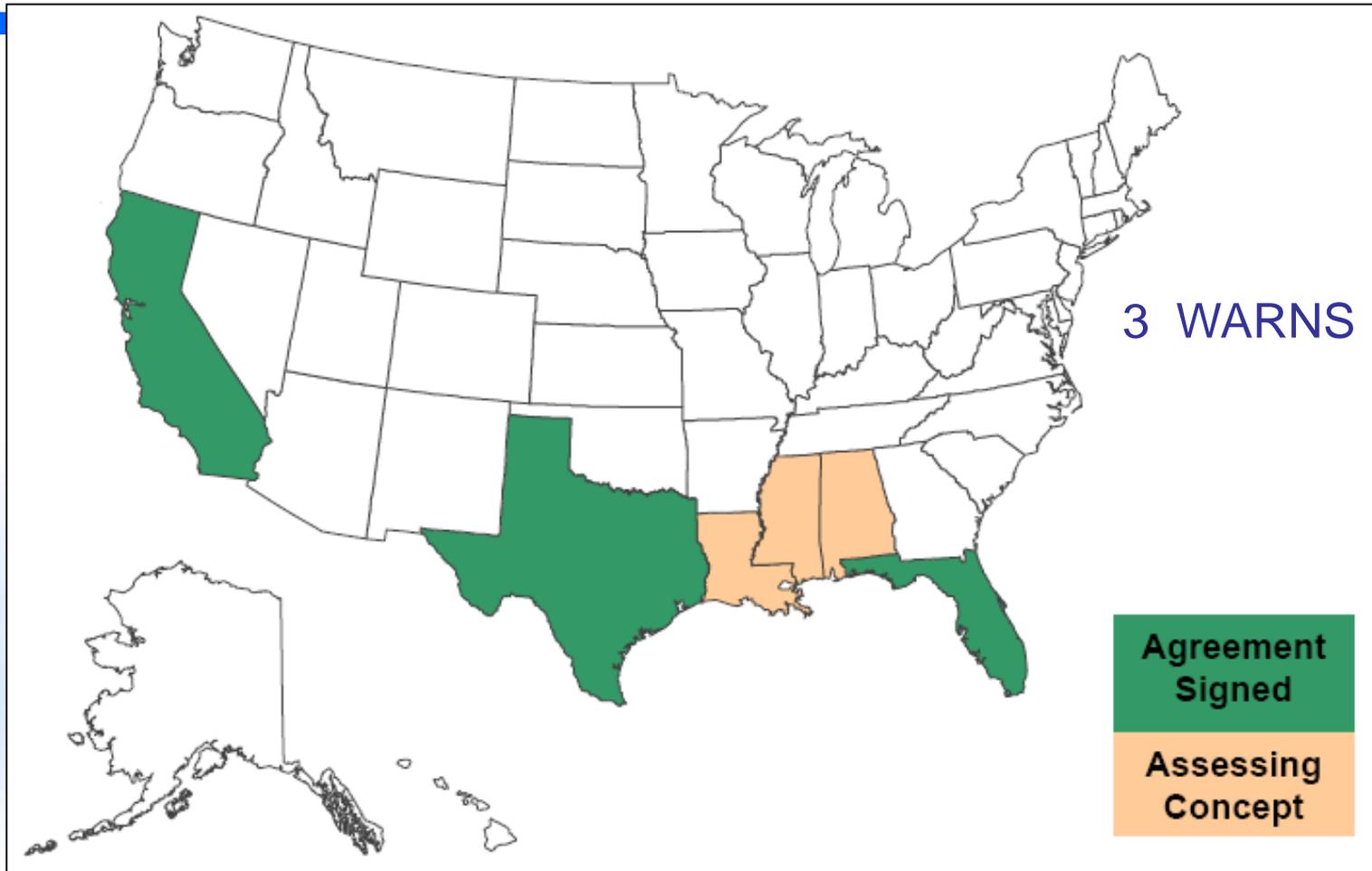
WATER /WASTEWATER AGENCY RESPONSE NETWORK

A large, light blue, semi-transparent graphic of a water splash with ripples, serving as a background for the date and title text.

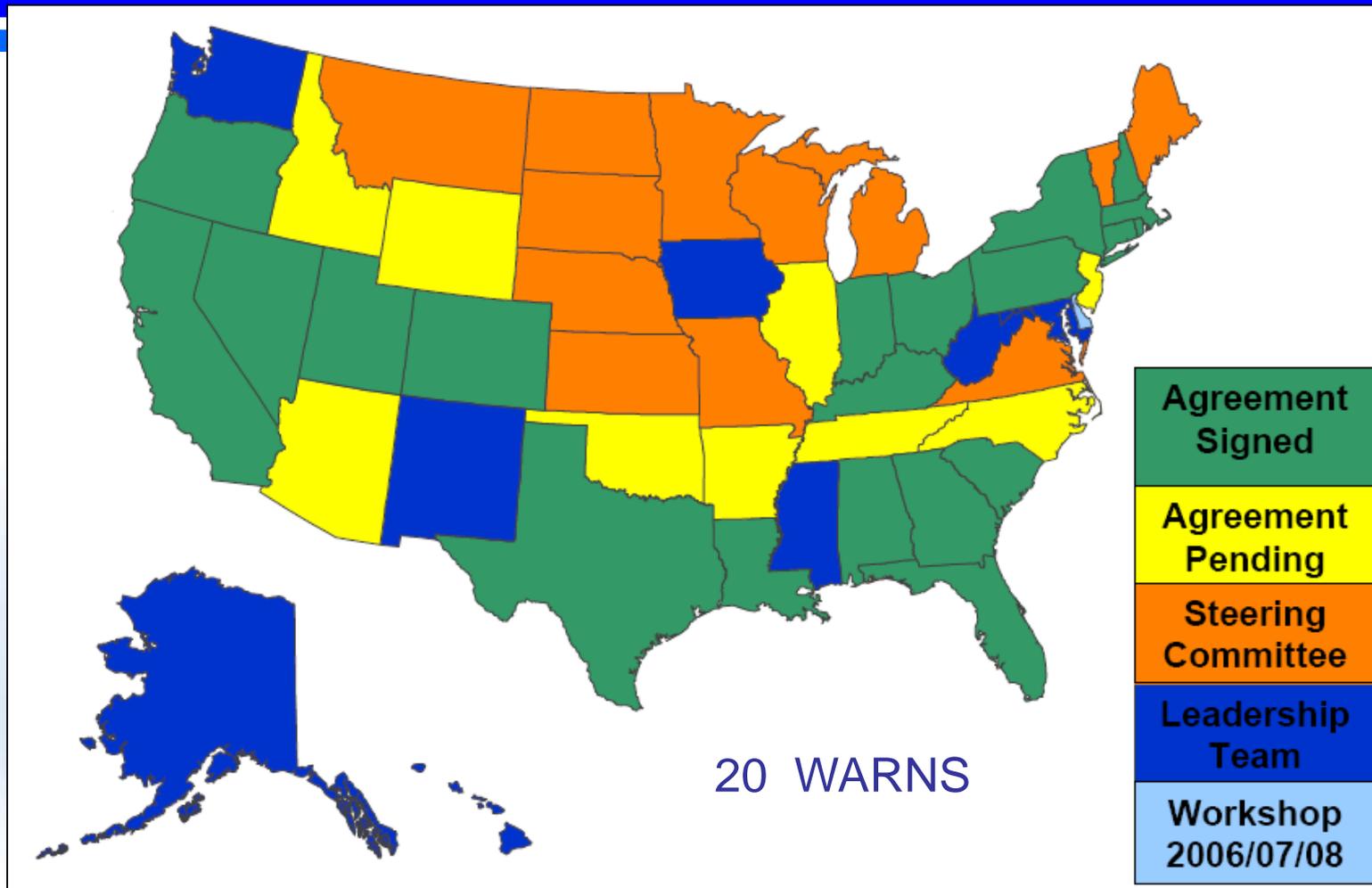
May 27, 2015

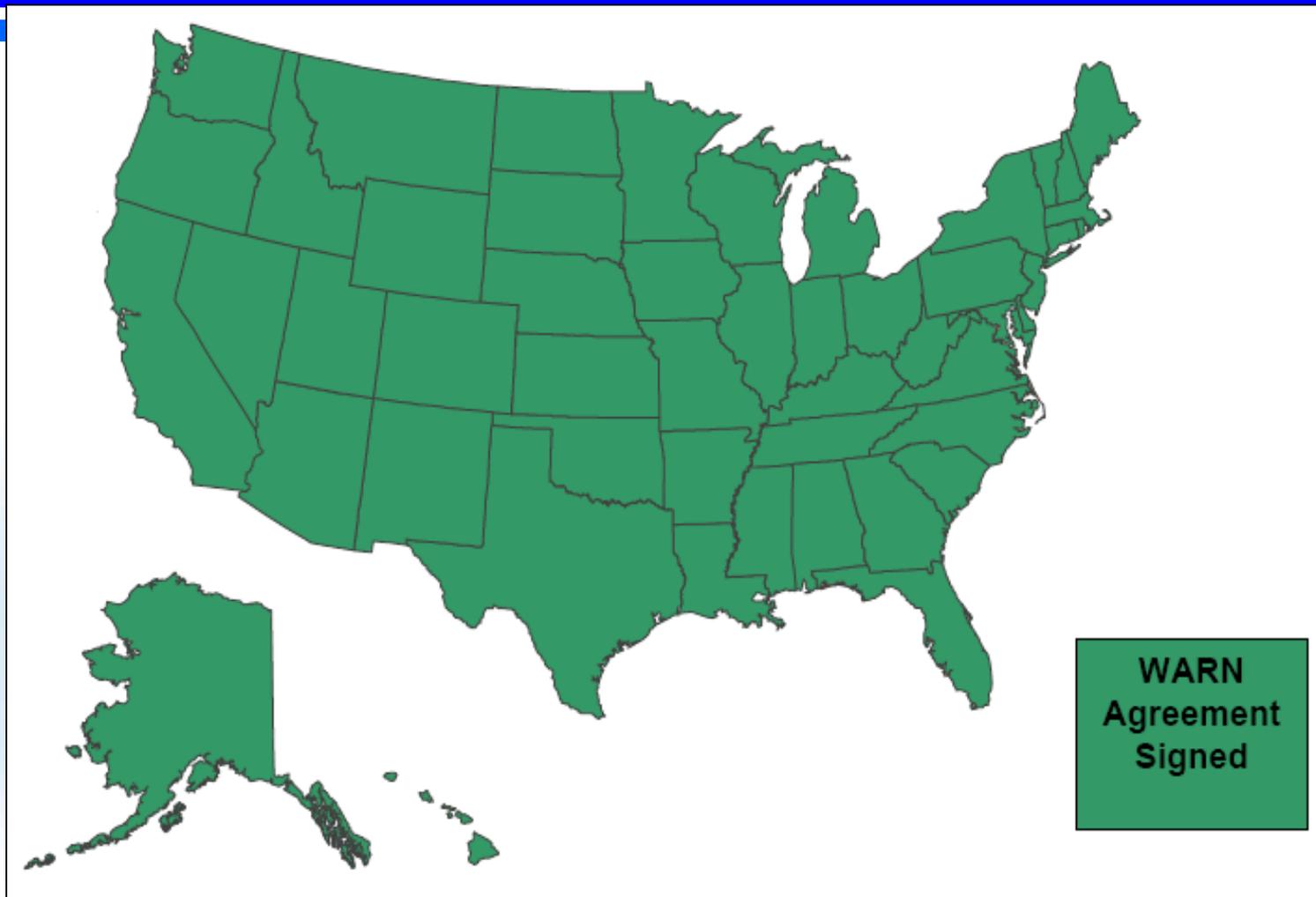
Progress Review

April 2006



January 2008



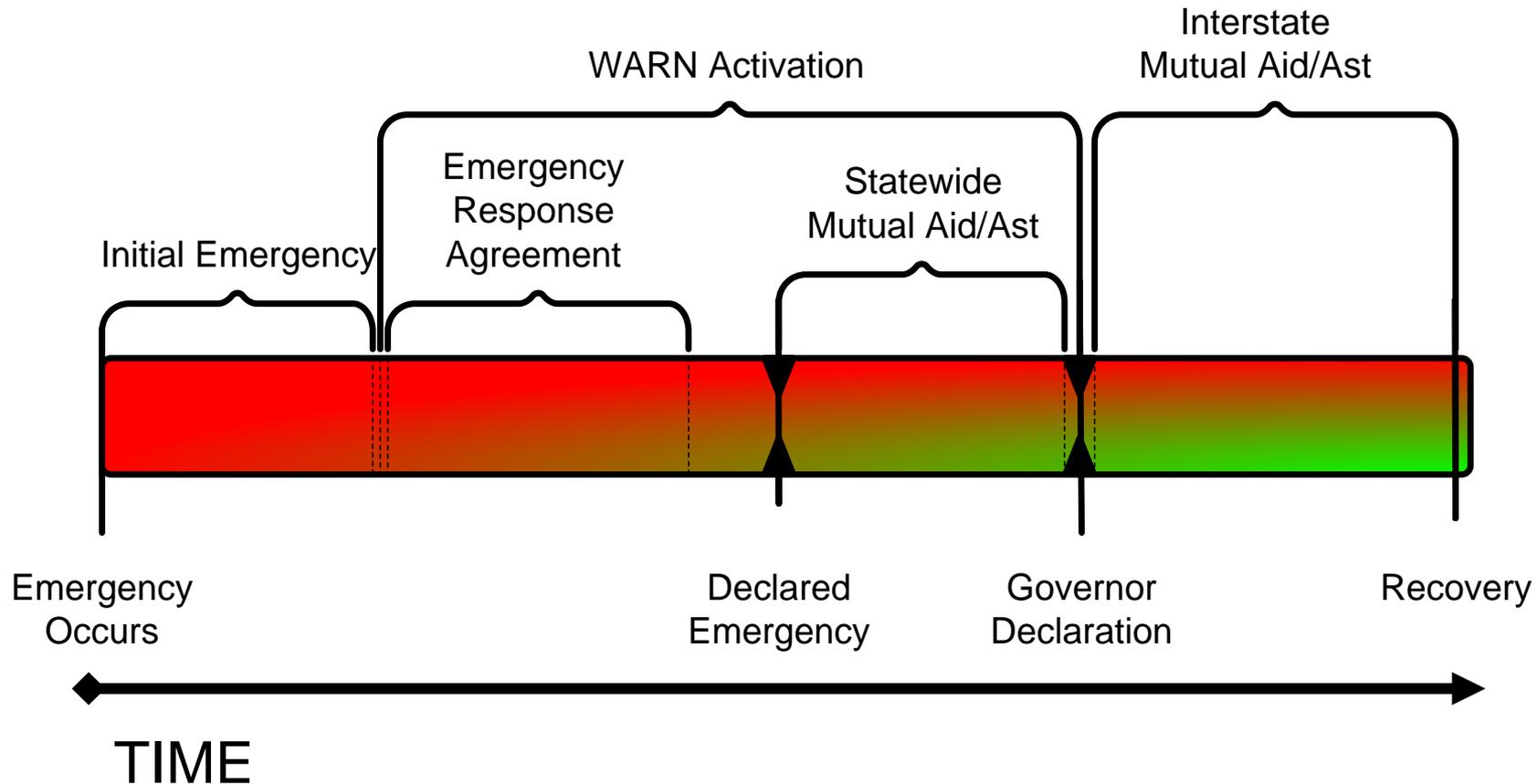


Who's Involved?

- 💧 Utility owner/operators
- 💧 Professional association representation
 - 💧 (AWWA, NRWA, WEF, sanitation association, etc.)
- 💧 State water and wastewater primacy agencies
 - 💧 (State health, environmental protection, etc.)
- 💧 State emergency management and/or homeland security agency
 - 💧 (State EMAC coordinator)
- 💧 County EOCs – coordination of response with fire, police, etc.
- 💧 US EPA region representation

Why it Works – Bridges the Gap

WARN does not require state or federal declaration and includes private utility resources.



Benefits of Having a WARN Agreement

- 💧 Increases planning & coordination
- 💧 Provides an emergency contact list & communication tool
- 💧 Enhances access to specialized resources
- 💧 Expedites arrival of aid
 - 💧 Again: FEMA is muscular and provides support, but is not agile
- 💧 Reduces administrative conflict
 - 💧 Signed agreement in place
 - 💧 Workman's comp, indemnification, etc. identified
- 💧 Increases community and customer hope
 - 💧 The right resources with the right skills are available

Mutual Aid Agreement (MAA)

- Links all statewide utilities together
- Addresses member indemnification, workers comp, insurance and reimbursement
- Deploy only resources you have available – never obligated to respond
- Member systems may recall resources as necessary
- Meets federal reimbursement requirements

Myths about Mutual Aid Agreements

- The process is long and complicated
- The type of aid is limited to heavy equipment
- All mutual aid agreements require the State to declare an emergency before aid may be arranged
- Your utility is obligated to provide resources (i.e. equipment, personnel and supplies) to others that request assistance

WARN Response

California

- Northridge Earthquake, 1994
- El Nino Storms, 1998
- Sonora Fires, 2001
- Hurricane Katrina, 2005
- So California Fires, 2007
- S. Napa Earthquake, 2014

Florida

- Hurricane Katrina, 2006
- Tornadoes, 2007

Iowa

- Floods, 2008

Texas

- Rain Bomb and Hurricane Humberto, 2007

Oregon

- Detroit Blizzard, 2008

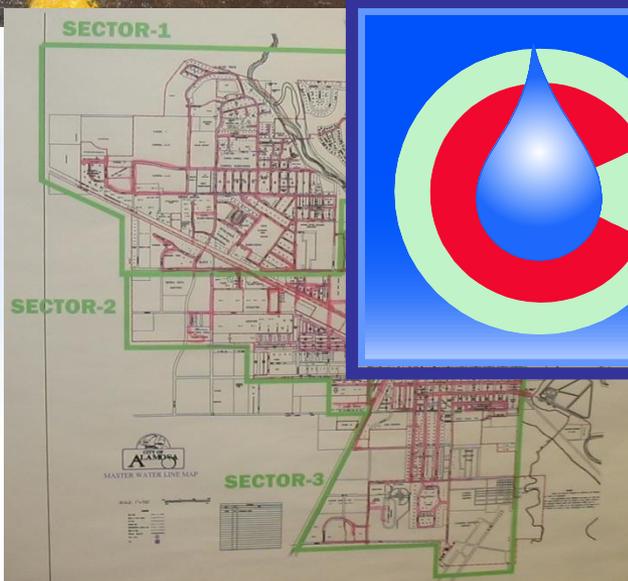
Colorado

- Alamosa, 2008

How to Activate WARN

- 💧 Utility identifies the needed resources
- 💧 Utility contacts other WARN members for assistance
- 💧 There is no obligation to respond
 - 💧 Deployed resources can be recalled at any time for any reason
- 💧 Requesting utility may reimburse the responder at FEMA rates

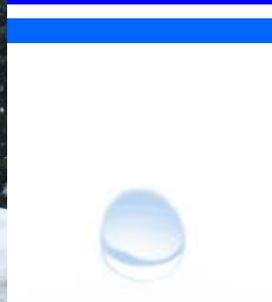
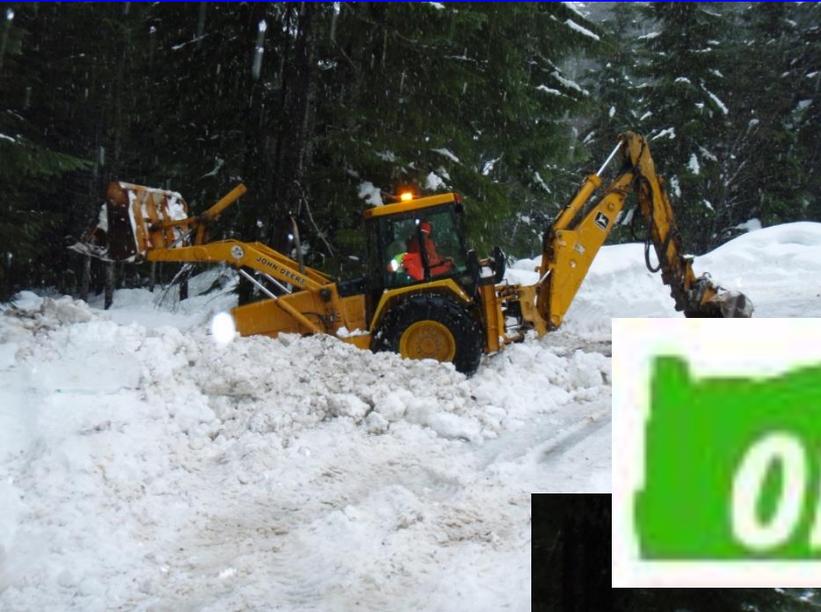
Contamination Incident – Alamosa 2008



CoWARN

Utilities Helping Utilities

Blizzard – Detroit, OR 2008



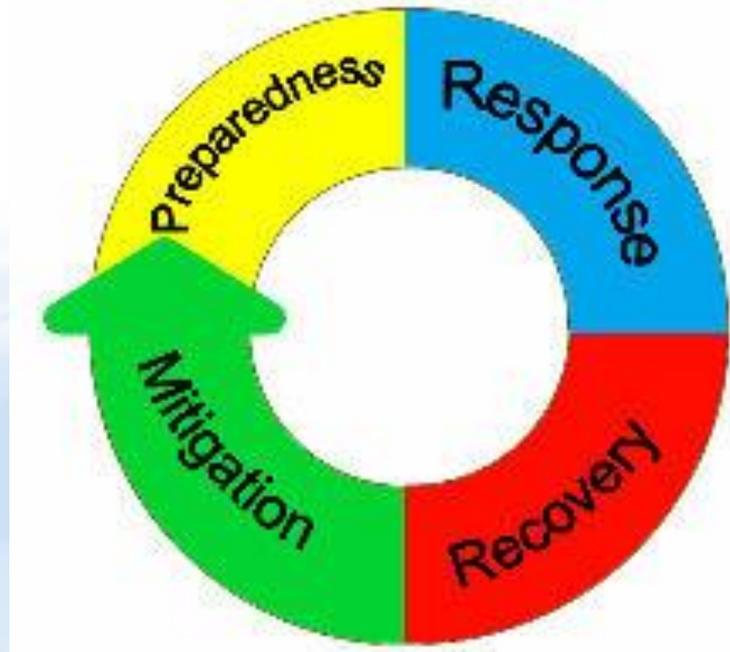
Flood Incident – Iowa 2008



Earthquake – California 2014



WARN in Action Video



<http://water.epa.gov/infrastructure/watersecurity/mutualaid/index.cfm>

Next Steps on National Scale

- Learn from success/challenges of existing programs
- Develop interstate aid networks
 - Tri-state WARN
- International WARN agreements (i.e. Canada)
- WARN representatives at state and federal EOC
- Develop a national aid network
 - Incorporation of WARNs into a national preparedness system
 - Facilitate development of resource typing for the Water Sector (both drinking water and wastewater)
 - AWWA is working with Emergency Management Assistance Compact (EMAC) Advisory Council to facilitate interstate aid and assistance

National WARN

Kevin Morley

Security & Preparedness Program Manager

AWWA – Government Affairs

1300 Eye Street, NW Suite 701W

Washington, DC 20005

202-326-6124 or kmorley@awwa.org

water.epa.gov/infrastructure/watersecurity/mutualaid

The Bottom Line - Resiliency

- All emergencies are local and require a local response capability.
- A signed mutual aid agreement will enhance local utility's preparedness and overall resiliency against any disaster.
- In its most basic form, a mutual aid and assistance agreement is a low or no-cost action that helps ensure the continuity of operations of the water infrastructure vital to the well-being of every community.



Regional WARN Milestones

ORWARN

- No. 8, March 2007
- 119 Utility Members
- 70% state population

IDWARN

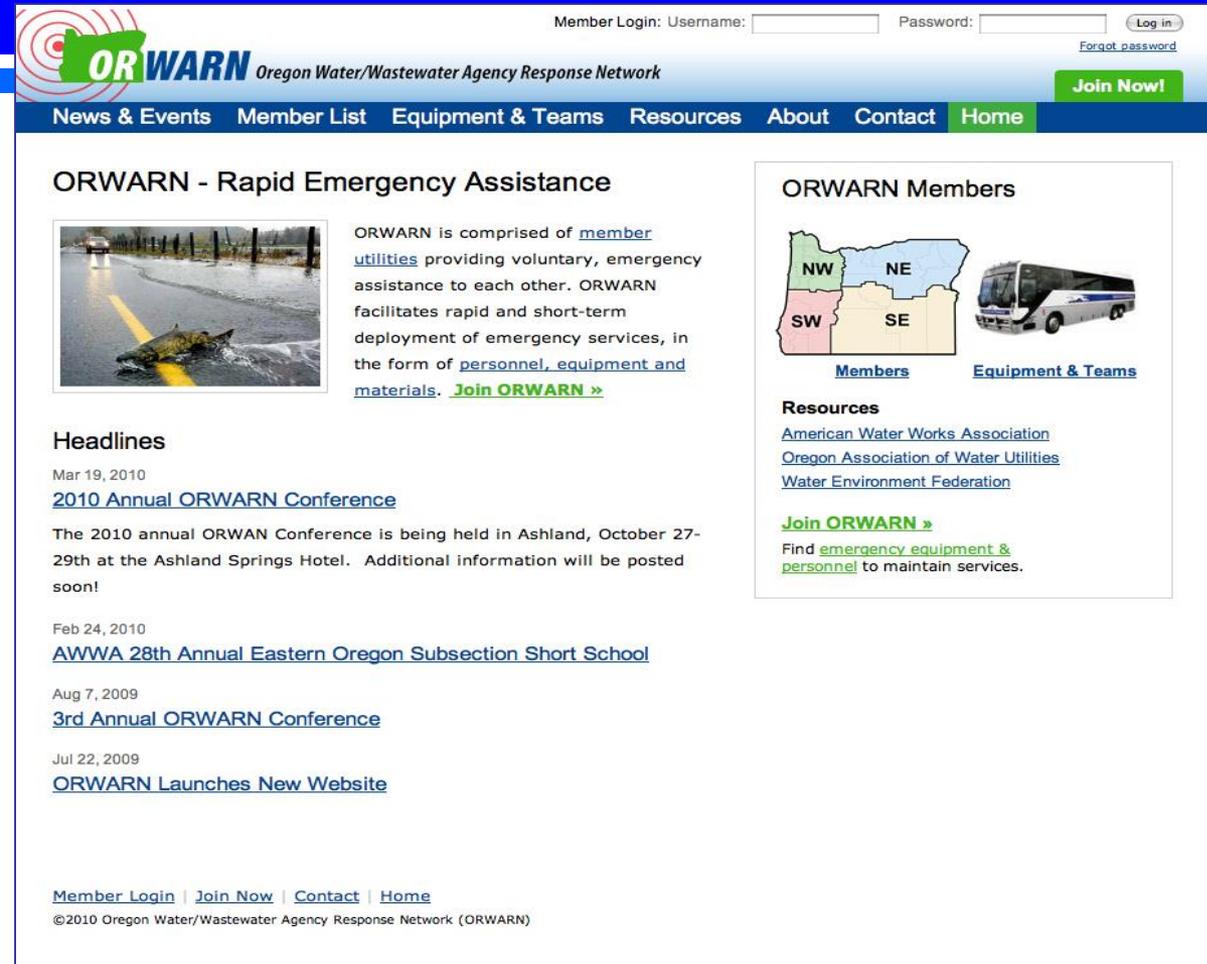
- No. 31, August 2008
- 27 Utility Members
- 33% state population

WAWARN

- No. 43, July 2009
- 89 Utility Members
- 75% state population

ORWARN PARTICIPATION

- The ORWARN website is at www.orwarn.org
- Public and members-only sections
- How to join
- Member resource and contact information
- Protocols/forms



The screenshot shows the ORWARN website homepage. At the top left is the ORWARN logo with the tagline "Oregon Water/Wastewater Agency Response Network". To the right of the logo is a member login section with fields for "Username:" and "Password:", a "Log in" button, and a "Forgot password" link. Below the login section is a green "Join Now!" button. A navigation menu contains links for "News & Events", "Member List", "Equipment & Teams", "Resources", "About", "Contact", and "Home". The main content area is divided into two columns. The left column is titled "ORWARN - Rapid Emergency Assistance" and features a photo of a flooded road with a car. Below the photo is a paragraph explaining that ORWARN is a network of member utilities providing voluntary emergency assistance, and it facilitates the deployment of personnel, equipment, and materials. A "Join ORWARN" link is provided. Below this is a "Headlines" section with three entries: "2010 Annual ORWARN Conference" (Mar 19, 2010), "AWWA 28th Annual Eastern Oregon Subsection Short School" (Feb 24, 2010), and "3rd Annual ORWARN Conference" (Aug 7, 2009). The right column is titled "ORWARN Members" and features a map of Oregon divided into four quadrants (NW, NE, SW, SE). Below the map are links for "Members" and "Equipment & Teams". A "Resources" section lists the "American Water Works Association", "Oregon Association of Water Utilities", and "Water Environment Federation". A "Join ORWARN" link is also present, along with a link to find emergency equipment and personnel.

Member Login: Username: Password: [Forgot password](#)

ORWARN Oregon Water/Wastewater Agency Response Network

[News & Events](#) [Member List](#) [Equipment & Teams](#) [Resources](#) [About](#) [Contact](#) [Home](#)

ORWARN - Rapid Emergency Assistance



ORWARN is comprised of [member utilities](#) providing voluntary, emergency assistance to each other. ORWARN facilitates rapid and short-term deployment of emergency services, in the form of [personnel, equipment and materials](#). [Join ORWARN >](#)

Headlines

Mar 19, 2010
[2010 Annual ORWARN Conference](#)

The 2010 annual ORWAN Conference is being held in Ashland, October 27-29th at the Ashland Springs Hotel. Additional information will be posted soon!

Feb 24, 2010
[AWWA 28th Annual Eastern Oregon Subsection Short School](#)

Aug 7, 2009
[3rd Annual ORWARN Conference](#)

Jul 22, 2009
[ORWARN Launches New Website](#)

[Member Login](#) | [Join Now](#) | [Contact](#) | [Home](#)

©2010 Oregon Water/Wastewater Agency Response Network (ORWARN)

ORWARN Members



[Members](#) [Equipment & Teams](#)

Resources

[American Water Works Association](#)
[Oregon Association of Water Utilities](#)
[Water Environment Federation](#)

[Join ORWARN >](#)

Find [emergency equipment & personnel](#) to maintain services.

ORWARN MEMBERS LIST



Oregon Water/Wastewater Agency Response Network

[Account](#) [Log Out](#)

[News & Events](#) [Member List](#) [Equipment & Teams](#) [Resources](#) [About](#) [Contact](#) [Home](#)



[Members](#)

Member List

1 | 2 | [next >](#) | [last »](#)

Member ▲	Emergency phone	City	County
Boring Water District No. 24	503-663-4594	Boring	Clackamas
City of Albany	541-917-7608	Albany	Linn
City of Ashland	541-552-2325	Ashland	Jackson

[City of Baker City](#)

[City of Bandon](#)

[City of Banks](#)

[City of Bay City](#)

[City of Beaverton](#)

[City of Bend](#)

[City of Central Point](#)

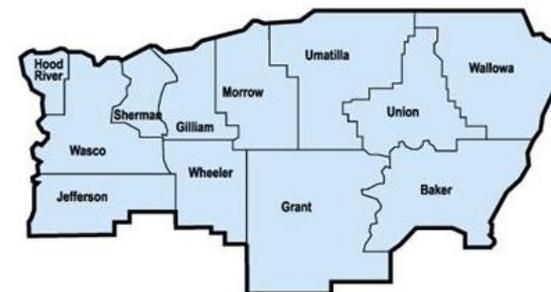
To view a full list of members, select the Members List tab.

Or select a specific region to see members in your area.



[Members](#)

Member List: Northeast Region



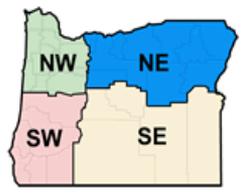
Member ▲	Emergency phone	City	County
City of Pendleton	541-966-0241	Pendleton	Umatilla
City of The Dalles	541-506-2008	The Dalles	Wasco

ORWARN EQUIPMENT & TEAMS



[Account](#) [Log Out](#)

- [News & Events](#)
- [Member List](#)**
- [Equipment & Teams](#)
- [Resources](#)
- [About](#)
- [Contact](#)
- [Home](#)



[Members](#)

Member List

1 | 2 | [next >](#) | [last >>](#)

Member ▲	Emergency phone	City	County
Boring Water District No. 24	503-663-4594	Boring	Clackamas
City of Albany	541-917-7608	Albany	Linn
City of Ashland	541-552-2325	Ashland	Jackson
City of Baker City			
City of Bandon			
City of Banks			
City of Bay City			
City of Beaverton			
City of Bend			
City of Central Point			

To view a full list of members, select the Members List tab.

Or select a specific region to see members in your area.



[Members](#)

Member List: Northeast Region



Member ▲	Emergency phone	City	County
City of Pendleton	541-966-0241	Pendleton	Umatilla
City of The Dalles	541-506-2008	The Dalles	Wasco

ORWARN PUBLIC INFORMATION



ORWARN Oregon Water/Wastewater Agency Response Network

[Account](#) [Log Out](#)

[News & Events](#) [Member List](#) [Equipment & Teams](#) [Resources](#) [About](#) [Contact](#) [Home](#)

News & Events

- [News Archive](#)
- [Monthly Meeting](#)
- [Annual Meeting](#)
- [Training](#)

Annual Meeting

2010 Conference

- [Agenda](#) PDF, 53 KB
- [Presentations](#)
- [Photos](#)

2009 Conference

- [Agenda](#) PDF, 19 KB
- [Minutes/Attendees](#) PDF, 139 KB
- [Presentations](#)
- [Photos](#)

2008 Conference



ORWARN Oregon Water/Wastewater Agency Response Network

[Account](#) [Log Out](#)

[News & Events](#) [Member List](#) [Equipment & Teams](#) [Resources](#) [About](#) [Contact](#) [Home](#)

Resources

ORWARN

- [2010 Annual Report](#)
- [Bylaws](#)
- [Current ORWARN Members](#)
- [Open Letter to potential members](#)
- [ORWARN Works: Testimonial by City of Detroit](#)

AWWA

- [An Action Plan for Mutual Aid and Assistance Networks](#)

Resource Typing

- [FEMA Typed Resource Definitions - Public Works Resources](#)
- [AWWA Water & Wastewater Mutual Aid & Assistance Resource Typing Manual](#)
- [Equipment Reimbursement Types](#)

ORWARN TABLETOP EXERCISES



ORWARN FULL SCALE EXERCISES



Population Served by IDWARN Member Utilities

As of April 22, 2016

Total Utility Members (signed WARN Agreement)	27
Total Population Served	540,286
% of State Population	33%

State Population 2014 Census 1,634,464

(see Population Finder at <http://www.census.gov/>)



IDWARN Tools for You

- 💧 Mutual Aid Agreement
- 💧 WebEOC (communication network)
- 💧 Training
- 💧 Tabletop Exercises
- 💧 Full Scale Exercises (goal)

IDWARN and Web EOC

- 💧 Crisis Information Management System
- 💧 Communication tool for members only
- 💧 Maintained by BHS at no charge to WARN
- 💧 Emergency contact list
- 💧 Asset/resource listing

Web EOC = Situational Awareness

- ◆ Effective and timely decision-making is critical in emergency and crisis management
- ◆ To be effective, decision-making requires that the best possible information is gathered, assessed and analyzed to provide an understanding of what is happening
- ◆ Information management is one of the most critical decision support functions for emergency managers

Who's Involved

- 💧 You ultimately choose who to notify...could include:
 - 💧 Federal Partners
 - 💧 All State Agencies involved with emergency management
 - 💧 All 44 County and 5 Tribes
 - 💧 Public Health Districts
 - 💧 Private Companies and organizations
- 

Network Potential

record_date	username	description
2015/11/17 15:28:02	kdehart	Update on High Wind Event 1:10 pm
2015/11/18 10:27:58	kdehart	Due to a power outage in north Idaho is not restored by that time, the clo
2015/11/18 10:39:47	kdehart	Do to the extreme winds last night, county.Kingston North to the Pritch but have been unsuccessful at this t damage to the homes though. There at 10:39:47 on 11/18/2015
2015/11/18 12:00:13	kdehart	Kootenai Electric Cooperative is rep http://www.kec.com/content/power-outages-affecting-19,758-customers http://outagemap.myavista.com/ex restoration is 1530 and another 39 ir 12:00:13 on 11/18/2015
2015/11/18 12:05:24	kdehart	Idaho Transportation Department m northern Idaho. Trees were toppled ITD area maintenance crews worked Operations Manager Jason Minzgho "Situations like last night just reinforce roads to a safe condition as soon as outlying maintenance sheds after b approximately 150,000 people in the
2015/11/18 12:34:44	kdehart	Power has been restored to the Idaho ID IDHW - at 12:34:44 on 11/18/2015
2015/11/18 13:05:36	kdehart	Contact with Benewah Community I however Avista is working on restoration monitoring local resource. Advised 13:05:36 on 11/18/2015

Kootenai County & IDHW Office Closed

Shoshone County lost power, 80% restored,
No critical infrastructure damaged

Kootenai Electric - no power 10,503
Avista - no power 19,758
Idaho Power - no power 408

ITD removing debris
All state roads open
Spokane - no power 150,000

IDHW Office opened

Benewah Hospital on generator power

Kootenai County, Benewah County, Shoshone County, Spokane City, IDHW, U.S. Army Corps, IBHS, Panhandle Health, IDWARN

Web EOC = Communication Tool

Event Log

Significant Events	
Incident: <input type="text" value="Current Incidents"/> <input type="button" value="New Record"/> <input type="button" value="Removed Records"/>	
Record #: 176	Idaho Power reports planned power outage for Maintenance. Area affected is Blaine County in the vicinity of St. Luke's Hospital, all of Ketchum and all of Sun Valley. IDEOC Plans Section - at 10:32:13 on 9/21/2011
Event Type: Utility Disruption	Power outage will occur from Midnight to 0600 on tuesday Sept. 27, 2011. IDEOC Plans Section - at 10:38:09 on 9/21/2011
Position: Critical Infrastructure Analyst	
Name: D. Jackson	
Phone: 208-422-3047	
Date: 09/21/2011 10:32:13	
Attachments:	
Map:	
Address/Location:	Medium Incident: Daily Ops Section Review:
<small>This information is not for public disclosure and is intended for authorized WebEOC users only.</small>	

Boards = Information Sharing

- 💧 Emergency Contact List
- 💧 Asset/Resource Listing
- 💧 Schedule Meetings, Training and Exercises
- 💧 Share Documents

IDWARN PARTICIPATION

If your emergency response organization, or your local water/wastewater utility are interested in participating in IDWARN, please forward your e-mail and contact information to:

Shelley Roberts, IRWA (208) 343-7001

sroberts@idahoruralwater.com

Kevin McLeod (208) 550-2651

kmcleod@idahoruralwater.com

This organization meets by phone conference quarterly.

WAWARN PARTICIPATION



www.wawarn.org

💧 89 members

💧 Covers 303 systems

WAWARN PARTICIPATION

WAWARN | The Washington State Water/Wastewater Agency Response Network - Windows Internet Explorer provided by City of Everett

http://www.wawarn.org/

File Edit View Favorites Tools Help Convert Select

WAWARN | The Washington State Water/Wastewater...

Home Mutual Aid Agreement Member List Committees Membership Application Resources Login

The Washington Water/Wastewater Agency Response Network

WAWARN: Utilities Helping Utilities

WAWARN is a Water/Wastewater Agency Response Network that allows water and wastewater systems to receive rapid mutual aid and assistance from other systems in an emergency. Utilities sign the WAWARN standard agreement which then allows them to share resources with any other system in Washington that has also signed the agreement.

[Announcing WAWARN mutual aid website service](#)

How to Join WAWARN

If your utility hasn't filled out the membership application:

1. Click on [Membership Application](#) to register your utility as a member and you will receive a confirming email.
2. After confirming your email, return to WAWARN, login and complete your full [Utility Profile](#).
3. Have your Mutual Aid Agreement signed either online or via paper copy. Submit paper copy to WAWARN, %Water/Irrigation, 2301 Fruitvale Blvd. Yakima, WA 98902.
4. Download the materials and attend local training provided by WAWARN on activation procedures.

For more information, please contact your regional or statewide chair (contact info on [Committees page](#))

[Mutual Aid Agreement - PDF](#)

[WAWARN Operational Plan](#)

[WAWARN Brochure](#)

About WAWARN

Based on other AWWA models, WAWARN is designed to provide a utility-to-utility response during an emergency.

The WAWARN Web site does this by providing its members with emergency planning, response, and recovery information before, during, and after an emergency. As the nationwide WAWARN system expands, it will become easier to provide mutual aid to other states as needed.

How does a utility get assistance during an emergency?

The WAWARN member who needs help identifies the resources needed to respond. The WAWARN member can either directly contact a fellow WAWARN member who has the necessary resources or use a state specific process of requesting aid.

Through the WAWARN Web site, a member can request emergency equipment (pumps, generators, chlorinators, evacuators, etc.) and trained personnel (e.g. treatment plant operators) that they may need in an emergency.

Done Internet 100%

WAWARN PARTICIPATION

WAWARN | The Washington State Water/Wastewater Agency Response Network - Windows Internet Explorer provided by City of Everett

http://www.wawarn.org/members.php

WAWARN
The Washington Water/Wastewater Agency Response Network

Home Mutual Aid Agreements **Member List** Committees Membership Applications Resources Login

Member Utilities

All WawARN member utilities, including utilities who have applied for membership but have not signed the MAA:

Utility Name	County	Region
Cedar River Water & Sewer District	King	Northwest
Chelan Co PUD #1	Chelan	Central
City of Bellevue Utilities Department	King	Northwest
City of College Place	Walla Walla	Eastern
City of Mercer Island	King	Northwest
City of Newport	Pend Oreille	Eastern
City of Riverside	Okanogan	Central
City of Yakima	Yakima	Central
City of Yakima	Yakima	Central
Clark Regional Wastewater District	Clark	Southwest
Coal Creek Utility District	King	Northwest
Covington Water District	King	Northwest
Cross Valley Water District	Snohomish	Northwest
East Wenatchee Water District	Douglas	Central
Everett Public Works	Snohomish	Northwest
Firgrove Mutual Water Company	Pierce	Northwest

WAWARN PARTICIPATION



[Home](#) [Mutual Aid Agreement](#) [Member List](#) [Committees](#) [Membership Application](#) [Resources](#) [Login](#)

Resources, Links and News

AWWA Resources

- [AWWA Resource Typing Manual](#)
- [AWWA Economic Benefits of WARN](#)
- [Water and Wastewater Agencies Response Network - AWWA](#)
- [Water and Wastewater Agency Response Networks - "Utilities Helping Utilities"](#)
- [How to Access WARN](#)

EPA Resources

[Water Health and Economic Analysis Tool \(WHEAT\)](#)

FEMA Resources

The information and templates below are provided as a suggested standard for WAWARN members to use to facilitate reimbursement

- [FEMA Public Assistance Program Information \(2MB PDF\)](#)
-  [FEMA Disaster Log templates \(166KB Excel\)](#)
-  [FEMA Equipment Reimbursement Rates \(69KB Excel\)](#)
- [FEMA Suspicious Activity Guide \(PDF\)](#)
- [Public Assistance Alternative Procedures](#)

Links

- [WAWARN Operational Plan](#)
- [FEMA Emergency Management Institute](#)
- [DHS National Response Framework](#)

Incident Command System Training for Utilities

- <http://www.horsleywitten.com/ICStraining/>

FEMA Independent Study Program Courses:

WAWARN PARTICIPATION



David Brown

City of Yakima

Water/Irrigation

509-575-6204

David.brown@yakimawa.gov

