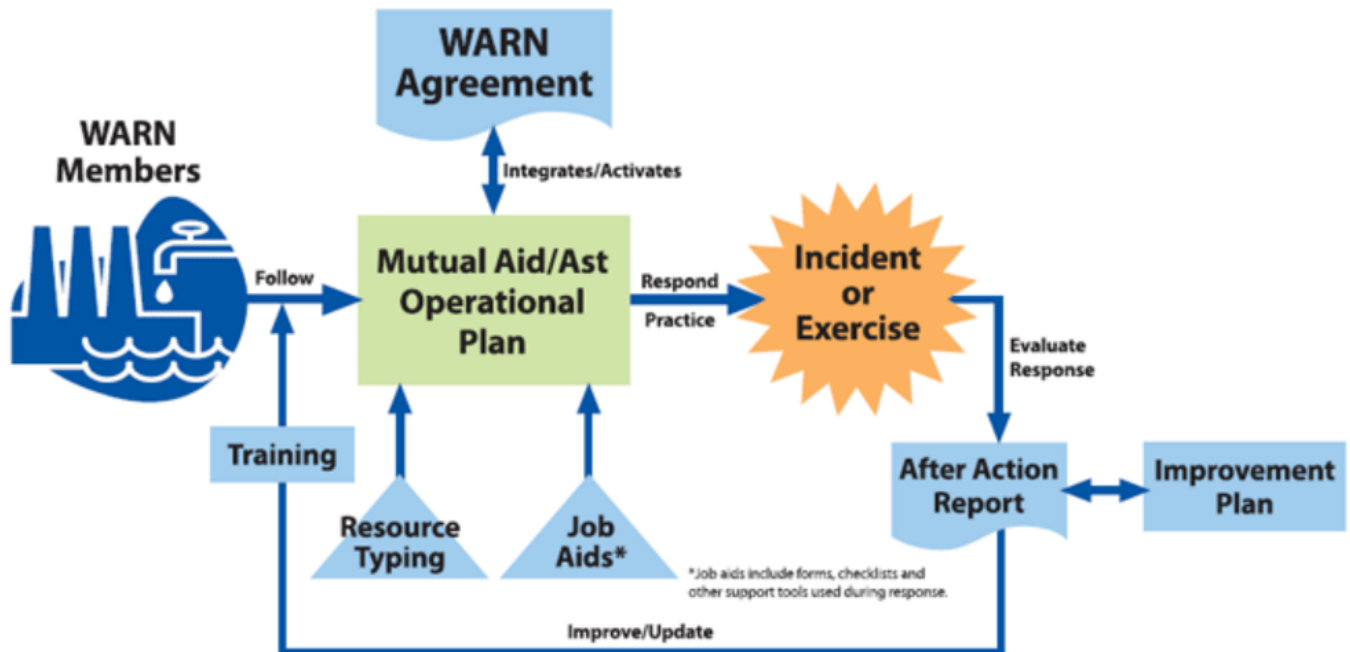




2015 WARN PROGRAM UPDATES AND ACCOMPLISHMENTS



July 2016

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WARN ABBREVIATIONS

AKWARN	Alaska	NCRWARN	National Capital Region
ALWARN	Alabama	NEWARN	Nebraska
ARWARN	Arkansas	NvWARN	Nevada
AZWARN	Arizona	NHPWMA	New Hampshire
CalWARN	California	NJWARN	New Jersey
CoWARN	Colorado	NMWARN	New Mexico
CtWARN	Connecticut	NYWARN	New York
DEWARN	Delaware	NCWaterWARN	North Carolina
FlaWARN	Florida	NDWARN	North Dakota
GAWARN	Georgia	OHWARN	Ohio
HIWARN	Hawaii	SoonerWARN	Oklahoma
IDWARN	Idaho	ORWARN	Oregon
ILWARN	Illinois	PaWARN	Pennsylvania
INWARN	Indiana	RIWARN	Rhode Island
IOWARN	Iowa	SCWARN	South Carolina
KSMAP	Kansas	SDWARN	South Dakota
KYWARN	Kentucky	TNWARN	Tennessee
LaWARN	Louisiana	TXWARN	Texas
MEWARN	Maine	UTWARN	Utah
MDWARN	Maryland	VTWARN	Vermont
MaWARN	Massachusetts	VA WARN	Virginia
MIWARN	Michigan	WAWARN	Washington
MnWARN	Minnesota	WVWARN	West Virginia
MoWARN	Missouri	WisWARN	Wisconsin
MTWARN	Montana	WYOWARN	Wyoming

ACRONYMS AND ABBREVIATIONS

AAR	After Action Report
AWWA	American Water Works Association
CDL	Commercial Driver's License
DEM	Division of Emergency Management
EMA	Emergency Management Agency
EMAC	Emergency Management Assistance Compact
EOC	Emergency Operations Center
EPA	United States Environmental Protection Agency
ESF	Emergency Support Function
FAQ	Frequently Asked Questions
FE	Functional Exercise
FEMA	Federal Emergency Management Agency
GEMA	Georgia Emergency Management Agency
IMT	Incident Management Team
IP	Improvement Planning
MAA	Mutual Aid and Assistance
MRP	Mission Ready Packages
NGO	Non-Governmental Organization
RWAU	Rural Water Association of Utah
SDWIS	Safe Drinking Water Information System
SERCAP	Southeast Rural Community Assistance Project
TTX	Tabletop Exercise
WARN	Water and Wastewater Agency Response Network
WiseRT	Wise Solutions, LLC Resource Typing

INTRODUCTION

Currently, there are 49 state Water/Wastewater Agency Response Networks (WARNs) and one regional WARN in the National Capital Region (NCRWARN) that includes the District of Columbia and a number of systems from Maryland and Virginia. This report tracks key WARN metrics for 2015, including two new metrics:

- WARNs with a state primacy agency representative on the Steering Committee
- Form of WARN representation in the state Emergency Operations Center (EOC)

Table 1 below shows all updated 2015 metrics, current through calendar year 2015.

Table 1. Summary of WARN Metrics through December 2015

Metric	Result
Membership	3 (HIWARN) to 1,250 (TXWARN)
Percent population covered ¹	18% (AKWARN) to 95% (CoWARN)
WARNs with websites	48 (96%)
WARNs with operational plans/procedures	48 (96%)
WARNs with response experience	45 (90%)
WARNs with state primacy agency on Steering Committee	33 (66%)
WARN State EOC representation	32 (64%): Through Primacy Agency Only 14 (28%): Physical Seat 4 (8%): Virtual

Additional information regarding individual state WARN metrics can be found in Appendices A and B.

This report documents the progress, successes and challenges of the WARNs during 2015 and is the third annual report in a series. These reports describe WARNs from their inception in 2006 through the end of calendar year 2015.

The WARN chairs are encouraged to continue to share their successes, challenges and lessons learned, which will be included in future annual updates to this WARN report.

¹ Percent population covered was provided by a WARN representative or was calculated using utility population served data and information gathered from databases including the Safe Drinking Water Information System (SDWIS).

SECTION 1: WARN “YEAR IN REVIEW”

This section highlights 2015 WARN successes, specifically utility and associate memberships, website news, partnerships and a selection of 2015 WARN facilitated responses.

UTILITY MEMBERSHIPS

The majority of WARNs continue to add members and increase the percentage of the state’s population served by member utilities. For example, MoWARN gained all the Missouri-American Water Company systems as members, which increased utility membership by 39 percent. In addition, because some of the systems added served large populations, the MoWARN percent population covered increased significantly from 2 to 23 percent in 2015. Several other WARNs also increased their membership size, though population covered did not change due to the sizes of the systems added:

- CoWARN (63 to 90, 42 percent member increase)
- MnWARN (327 to 365, 12 percent member increase)
- PaWARN (84 to 93, 11 percent member increase)

WARNs continue to explore new ways to increase utility membership:

- MnWARN is producing a YouTube video to market themselves and spearhead a new recruitment drive. The video will include interviews with people about the value of WARN and draw on the experiences of those who have used MnWARN during an incident response. Testimonials from emergency management agencies will also be included.
- TXWARN experienced success in signing up new members after the state primacy agency wrote a letter to all water utilities within the state explaining the benefits of WARN. TXWARN now sends this letter out each year.
- Both NCWaterWARN and VA WARN are partnering with their state American Water Works Association (AWWA) sections and the Southeast Rural Community Assistance Project (SERCAP) to conduct regional training events focused on small water systems. The importance of joining WARN is a topic during these events.

WARNs continue to be successful in building partnerships with non-governmental organizations (NGOs) in their states, such as the Council of Mayors, League of Municipalities and city clerk associations, in order to increase membership. The decision makers (e.g., mayors, council members) in many communities tend to be NGO members, so outreach to these organizations is a good way to market WARN to these individuals who may ultimately sign the WARN mutual aid and assistance (MAA) agreement.

WEBSITE NEWS

Two WARNs overhauled their existing websites in 2015:

- NYWARN – updated their website (www.nywarn.org) to include a map of member utilities, the ability to send alerts to other members, information about relevant training courses and a video that shows users how to navigate all portions of the website. The website is mobile-friendly and designed to work on smartphones and tablets.
- PaWARN – updated their website (www.pawarn.org) to include a map of member utilities, an incident dashboard that allows a member to see requested resources and the aid offered in response to those requests, and a message board for electronic conversations. The website also operates on smartphones and tablets. It is very similar to the NCRWARN website (www.ncrwarn.org) developed in 2014.

Key Metric: WARN Websites

As of December 2015, 48 of 50 WARNs (96 percent) maintain active websites. This is the same number as in 2014.

ASSOCIATE MEMBERSHIPS

WARNs across the country continue to add associate members, which include contractors, vendors, NGOs and county emergency management agencies (EMAs). Examples of 2015 progress include:

- CtWARN – continues to recruit associate members. For a \$150 yearly membership fee, an associate member can have both their company logo and website hyperlink on the CtWARN website (<http://www.ctwarn.org/AssocMembers.htm>).
- OHWARN – continues to add local EMAs as associate members. At the end of 2015, more than 25 percent of all Ohio county EMAs were classified as “non-utility” OHWARN members. OHWARN works with their state primacy agency to improve coordination with county EMA directors. This effort also assists in recruiting smaller utilities.
- NYWARN – lists a number of companies on the website (www.nywarn.org) as “sponsors.” The small fee that each sponsor pays helps cover the cost of website renewal and maintenance.

EMERGENCY MANAGEMENT COORDINATION

WARNs across the country have made it a priority to gain representation in their state EOC when it is activated. Nearly all WARNs are represented by their state primacy agency. In addition, the following WARNs have worked with their state EMAs to gain either physical or virtual EOC access:

- FlaWARN can receive resource requests through Emergency Support Function (ESF) #10 in the state EOC if needed during a declared disaster.

Key Metric: WARN Websites

As of December 2015, WARN representation in the state EOC included:

- Through primacy agency only; 32 (64 percent)
- WARN representative in EOC: 14 (28 percent):
- Virtual: 4 (8 percent)

- ORWARN is represented at the state Emergency Coordination Center by a representative in the Oregon Department of Transportation, Department Operations Center.
- NCWaterWARN representatives have a seat at the state EOC during activations.
- NYWARN participates in the state EOC as part of the logistics section. Members of the Steering Committee are in the process of undergoing training for this role.
- RIWARN is represented at the state EOC virtually via WebEOC, an online situational awareness and crisis management system.
- TXWARN is represented at the state EOC and in addition, Mike Howe (TXWARN Manager) has been appointed as the State Department of Homeland Security Private Sector Advisory Council water sector representative. The Private Sector Advisory Council is a permanent special advisory committee created to advise the governor or the governor's designee on homeland security issues relevant to the private sector.

WARN-FACILITATED RESPONSES

This section includes examples of WARN-facilitated responses in 2015, ranging from local incidents to regional natural disasters.

- PaWARN (February 2015) – A 24-inch main break drained the entire distribution system in Bradford, Pennsylvania. The closest utility to Bradford with the ability to help was in New York, but that utility could not deploy resources under the Emergency Management Assistance Compact (EMAC) since no state disaster declaration had been made. The Pennsylvania Emergency Management Agency asked PaWARN to provide assistance, and PaWARN successfully deployed resources to Bradford. Although not a member at the time of the incident, Bradford became a member afterwards. More information about the incident is available at http://www.oleantimesherald.com/article_e5a20cee-bc57-11e4-b966-ffeabae17a2.html
- UTWARN (April 2015) – A farm vehicle overturned and spilled diesel fuel that contaminated Nibley City's (pop. 6,000) surface water (spring) source. Taste and odor complaints led to the discovery of the spill by utility staff. UTWARN helped arrange for bottled water to be brought into the community and both UTWARN and the Rural Water Association of Utah (RWAU) served as information conduits for the state primacy agency. To resolve the incident, staff from the utility, UTWARN and RWAU isolated the spring and flushed the system. UTWARN developed detailed residential tap flushing procedures during the incident response. More information about the incident is available at <http://dem.utah.gov/wp-content/uploads/sites/18/2015/04/DEM-Situation-Report-4.23.2015.pdf>.
- CtWARN (June 2015) – On June 23, a hydropneumatic tank in North Stonington exploded and destroyed a pump station. This shut down water service to over 200 customers. The Connecticut Water Company provided assistance in the form of personnel and equipment, and designed and established a temporary water system and

Key Metric: WARN Responses

As of December 2015, at least 45 of 50 WARNs (90 percent) had responded to an incident. This is an increase of two WARNs from 2014.

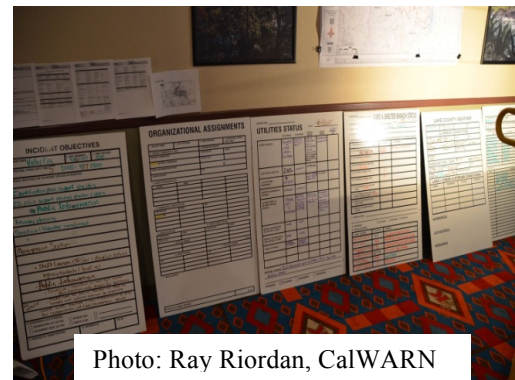
source. It initially included two 10,000-gallon tankers but was subsequently reduced to one 6,000-gallon tanker after demand stabilized. A request was also placed through CtWARN for drivers with commercial driver's licenses (CDLs) to assist in hauling water during the incident. More information about the incident is available at <http://foxct.com/2015/06/23/hundreds-of-people-without-water-in-north-stonington/>.

- WYOWARN (June 2015) – The town of Lusk received six inches of rain in four hours resulting in flooding that damaged at least twenty-nine homes and isolated the town. Multiple city vehicles were also destroyed and public works facilities were heavily damaged. The Cheyenne Board of Public Utilities provided sewer vacuum trucks and cameras to assist in the response to the incident. More information about the incident is available at



- <http://www.weather.com/news/news/lusk-wyoming-heavy-rain-damage>.
- NvWARN (August 2015) – The owner of a Mobile Home Park in Verdi, Nevada contacted a NvWARN representative after *Escherichia coli* (*E. coli*) was discovered in the drinking water during a routine water test. A WARN alert was sent to members in the event that the *E. coli* was not limited to the mobile home park. The contamination did not spread to the public water system, but the alert format worked well in notifying all members. More information about the incident is available at <http://www.kolotv.com/home/headlines/No-Use-Water-Order-in-Verdi-Mobile-Home-Park-323277681.html>

- CalWARN (September 2015) – On Saturday, September 12, a fire started in the mountainous, rural area of Lake County, California. With drought conditions and light winds, the fire exploded from a few hundred acres to more than 10,000 acres overnight. The county requested CalWARN's assistance through the California Office of Emergency Services to help monitor the fire and identify assets that could be sent to affected utilities. By day three, it was clear that at least four small water systems would need assistance. The small systems had already been helping each other relocate generators, restore well service, and keep the distribution systems operational. One of the biggest challenges the county faced was damage to their wastewater treatment plant and a generator for the plant. There was also an effluent issue because under normal conditions, the plant pipes treated wastewater to a steam generation power plant in another county. That power plant also sustained damage and could not accept the wastewater discharge so Lake County had to truck its effluent elsewhere. CalWARN representatives helped staff the county Incident Management Team (IMT) and worked in the county EOC. CalWARN also assisted by arranging for and providing generators, and by performing damage assessments and documentation services. More information about



this incident is available at <http://www.ncpa.com/wp-content/uploads/2015/10/NCPA-Press-Release-Community-Unites-to-Repair-Damage-from-the-Valley-Fire-100215.pdf>.

- SCWARN (October 2015) – The historic 1,000-year flood in South Carolina left hundreds of people without shelter and tens of thousands of people without power. The storm dumped up to 24 inches of rain in parts of South Carolina, resulting in widespread flooding. Consequently, a number of drinking water and wastewater treatment plants were inundated and most of downtown Columbia was without drinking water for several days. The city of Columbia made at least three requests through the SCWARN website for the following resources: generators, water operators, pickup trucks, electricians, mechanics and ductile iron pipe. The resource requests were filled by eight different utilities and communities throughout the state. A SCWARN representative worked in the state EOC during the incident. SCWARN also located operators for several deployed reverse osmosis units. More information about this incident can be found at <http://observer.com/2015/10/south-carolina-flooding-is-sixth-1000-year-rainfall-in-the-u-s-since-2010/>.
- IDWARN (November 2015) – On Tuesday, November 17, a severe storm with winds in excess of 70 miles per hour caused extensive power outages throughout the northwestern part of the state. The city of Plummer water system, facing several days without power, was expected to run out of water by 8:00 a.m. Thursday morning. The city requested three generators and the cities of Coeur d'Alene, Lewiston and Moscow all delivered generators to assist Plummer.

Key Metric: WARN

Operational Procedures

As of October 2015, 48 of the 50 WARNs (96 percent) have an operational plan or established response procedures. This is the same as 2014.

SECTION 2: NATIONAL WARN-RELATED INITIATIVES

This section describes current initiatives and areas for growth to further strengthen WARNs.

IMPROVEMENT PLANNING

In 2015, the U.S. EPA sponsored six one-day WARN training events that consisted of relevant presentations and a tabletop exercise (TTX). As in previous years, the WARNs were further assisted through facilitated follow-up improvement planning (IP). IP consists of follow-up conference calls to discuss progress implementing the improvements and recommendations listed in the WARN's TTX after action report (AAR). This process continues to highlight the following common WARN action items:

1. Increase the number of utilities that are WARN members.
2. Promote the benefits of membership to underrepresented WARN member “categories” (e.g., rural utilities, wastewater utilities).
3. Strengthen relationships with water sector response partners (e.g., emergency management, primacy agency, associations, municipal leagues).
4. Increase WARN representation at state EOCs.
5. Promote partial or associate memberships for water sector response partners (e.g., emergency management agencies, primacy agencies, associations, contractors, vendors).
6. Fill vacant positions on the WARN Steering Committee and other committees.
7. Determine future WARN-sponsored training events or other events in which the WARN should participate.
8. Revise and update the WARN website.
9. Review and revise, if needed, the MAA agreement, operational plan and other documents.
10. Create Frequently Asked Question (FAQ) documents or factsheets.
11. Identify how to raise WARN funds (e.g., sponsored training events, coordination with the state primacy agency).

As WARNs accomplish these action items, their lessons learned are shared with other WARNs to make the IP process better and more efficient for all.

INTERSTATE MUTUAL AID AND ASSISTANCE

A number of WARN-related interstate events and updates occurred in 2015.

SEPTEMBER 2014 EPA REGIONS 2 AND 3 INTERSTATE WORKSHOP UPDATE

EPA Regions 2 and 3 completed the improvement planning process from the 2014 Interstate MAA Workshop held in Philadelphia, Pennsylvania. EPA headquarters is staying in contact with the Federal Emergency Management Agency (FEMA) to learn more about that agency's efforts to draft legislation to allow the use of EMAC during non-declared disasters. AWWA, along with other national water sector organizations, would like to be involved in the process so they can advocate for any pending legislation.

SEPTEMBER 2015 EPA REGION 4 INTERSTATE WORKSHOP

EPA sponsored an Interstate MAA workshop on September 22-23, 2015, in Doraville, Georgia. Attendees representing the majority of WARNs in EPA Region 4 participated in the event. There were three event objectives:

- Review the EMAC, the Southeast's experience with EMAC, and how to make it work better for the water sector.
- Identify interstate MAA agreement mechanisms and models that may work without disaster declarations.
- Determine next steps (e.g., milestones, subcommittees) for furthering interstate assistance.

The following are examples of action items and lessons learned from the workshop:

- Further explore and understand the EMAC process including the:
 - EMAC resource tracking process – develop a better understanding of how to track resources once they are deployed.
 - State prioritization process – work with state counterparts to prioritize water sector needs during an incident.
- Determine how the water sector can plan and prepare to use EMAC:
 - Develop Mission Ready Packages (MRPs) before an incident occurs to help secure resources faster.
 - Expand WARN operational plans to include EMAC considerations.
 - Avoid or plan for resource request redundancies.
 - Establish an emergency contact protocol for contract operators.
- Determine how best to coordinate between the water sector and emergency services sector:
 - Develop relationships with local, county and state EMAs and invite EMA personnel to trainings, exercises and conferences to foster relationships.
 - Conduct cross sector regional exercises that include EMAC procedures.

A Region 4 Interstate MAA Workshop meeting summary is available from EPA.

NOVEMBER 2015 FLORIDA WATER SECTOR STATE FUNCTIONAL EXERCISE

EPA sponsored a two-day Workshop and Functional Exercise (FE) on November 4-5, 2015, at the Palm Beach County EOC in West Palm Beach, Florida. As part of the FE, EMAC was used to fulfill water sector resource requests. The requests were initially made to the Palm Beach County EOC and then escalated to the Florida Division of Emergency Management (DEM) via its web-based information management software, EM Constellation. The state EOC determined that the resource request should be filled through EMAC. The Florida DEM Mutual Aid Branch (EMAC Designated Contact) used request for assistance (REQ-A) forms to make three EMAC requests to Georgia:

- Resource Request #960-RR-4330 – Four Type III Water Distribution System Damage Assessment and Repair Teams
- Resource Request #960-RR-4331 – Two Type II and two Type III Wastewater Lift and Pump Station Damage Assessment, Repair and Start-up Teams
- Resource Request #960-RR-4332 – Four Type III Sewer Mains Damage Assessment and Repair Teams

The Georgia Emergency Management Agency (GEMA) responded to the request by developing MRPs, based on the requested resources listed above, using the Wise Solutions, LLC Resource Typing (WiseRT) application developed specifically for the water sector and based on the AWWA [Water and Wastewater Mutual Aid and Assistance Resource Typing Manual](#). This web application allows utilities to type their resources while managing assets and recognizing costs. The GEMA participants, working with Florida DEM and the exercise Simulation Cell, completed the EMAC process during the FE.

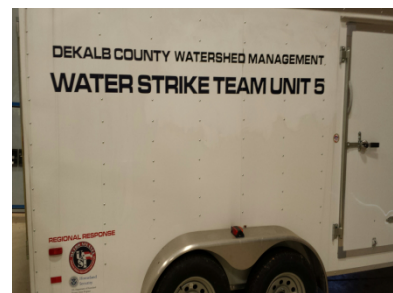
FUTURE PLANS

EPA plans to sponsor a 2016 Interstate MAA workshop to continue to discuss the challenges associated with sharing water sector resources across state lines. The workshop is tentatively scheduled for fall 2016 in EPA Region 10 (Pacific Northwest).

DEVELOPMENT OF WARN TEAMS

Some WARNs are continuing to develop pre-designated teams (e.g., equipment and personnel) that could be deployed during incidents within the state, or potentially across state lines through EMAC. The following are examples of 2015 initiatives:

- Several GAWARN utilities, along with their local EMAs, partnered with the GEMA to purchase ten Water Strike Team trailers.
- IOWARN and the Iowa Rural Water Association partnered with the Johnson County EMA to improve Iowa’s ability to respond to drinking water emergencies within the state. The Johnson County EMA acquired several portable 3,000 gallons per hour military surplus water purifiers, but needed trained personnel to operate the equipment. IOWARN recruited operators from around the state and held two training sessions that taught 45 operators how to operate the equipment. There are plans to conduct additional training in 2016.



WATER SECTOR AND EMERGENCY MANAGEMENT COORDINATION

It is important that water and wastewater utilities build strong relationships with their local EMAs and WARNs develop a similar relationship with their state EMAs. As described in Section 1, WARNs continue to list engaging EMAs as a top priority.

In addition, EPA will be scheduling four training workshops in 2016 to discuss the interdependencies of the water sector and emergency services sector. One objective of the workshops is to increase the coordination and communication between the sectors in the communities represented at the workshops. Another objective is to increase the prioritization of the water sector's incident needs within the emergency services sector. During the workshop series, EPA will collect information about best practices and procedures to improve communication between the sectors. Results will be incorporated into sector outreach products.

WARN CHAIRS MEETING

WARN Chairs from across the country met on October 16, 2015, in Bethesda, Maryland. The following objectives were identified for the meeting:

1. Discuss current initiatives and the potential impact on WARN members.
2. Identify potential future capabilities of the WARNs and the resources needed to accomplish them.
3. Identify emerging issues and potential solutions.

The WARN representatives in attendance based their discussion on these objectives and identified several action items:

WARNs should:

- Let EPA know if interested in conducting a future EPA-funded tabletop exercise and improvement planning event or EMAC Interstate MAA Workshop.
- Provide feedback about the possibility of replacing some of the EPA-sponsored WARN TTXs held each year with WARN functional exercises.
- Share innovative procedures with other WARNs.
- Suggest updates to AWWAs "[WARN FAQ document](#)".
- Review and comment on FEMA's new damage assessment guidance at <https://www.fema.gov/media-library/assets/documents/109040>.

AWWA should:

- Update the "[WARN FAQ document](#)" with input from WARNs.
- Review current stats on membership numbers and estimate percent population served nationally. This information is available as part of this annual WARN Program Update report (Appendix A).

EPA should:

- Investigate EPA or AWWA reward and recognition programs for WARN notable achievements.
- Produce new WARN marketing videos and update existing WARN marketing presentations.

- Discuss interest and feasibility in developing a centralized WARN website, funded and managed by EPA or AWWA, which would include a separate section for each state WARN.

A WARN Chairs meeting summary is available from EPA.

SECTION 3: LOOKING FORWARD

WARNs continue to focus their efforts on increasing membership and enhancing the value they can offer to their members. In addition, emerging areas of interest, such as interstate MAA, are being actively pursued by the WARNs, AWWA, EPA and others. Some major accomplishments of WARNs include, but are not limited to, the following:

- 90 percent of WARNs have responded to an incident. This is a four percent increase since the 2014 report.
- 96 percent of WARNs have created an operational plan or established response procedures. This is the same as in the 2014 report.
- 96 percent of WARNs have active websites. This is the same as in the 2014 report.
- 66 percent of WARNs have primacy agency representation on their Steering Committee. This is a new metric since the 2014 report.

In addition, all WARNs are represented directly or indirectly at their state EOC:

- 64 percent of WARNs are represented at the state EOC by their state primacy agency.
- 28 percent of WARNs have a representative at the state EOC.
- 8 percent of WARNs have a virtual presence (e.g., WebEOC) at the state EOC.

The summary table (Appendix A) and the WARN “snapshots” (Appendix B) provide additional information regarding the status of individual WARNs. Future *WARN Program Updates and Accomplishments* reports will continue to build awareness and encourage conversation and collaboration among the WARNs.

SECTION 4: APPENDICES

Appendix A: WARN Summary Table

State/Region	WARN	Year Formed	Membership	Public and Private Utility Members included	Percent Population Covered	Website	Operational Plan or Procedures	WARN Activations	Primacy Agency on Steering Committee	EOC Representation
Alabama	ALWARN	2007	6	✓	10%		✓	✓	No	Primacy
Alaska	AKWARN	2011	4	Public Only	18%	✓			Yes	Primacy
Arizona	AZWARN	2008	24	Public Only	75%	✓	✓	✓	Yes	Primacy
Arkansas	ARWARN	2008	31	✓	30%	✓	✓	✓	No	Virtual/Primacy
California	CaWARN	1992	336	✓	85%	✓	✓	✓	Yes	Physical/Primacy
Colorado	CoWARN	2006	90	✓	95%	✓	✓	✓	Yes	Primacy
Connecticut	CtWARN	2007	21	✓	55%	✓	✓	✓	Yes	Primacy
Delaware	DEWARN	2013	19	✓	90%	✓	✓	✓	Yes	Primacy
Florida	FlaWARN	2005	250+	✓	80%	✓	✓	✓	Yes	Physical/Primacy
Georgia	GAWARN	2007	50+	✓	80%	✓	✓	✓	Yes	Physical/Primacy
Hawaii	HiWARN	2012	3	Public Only	75%		✓	✓	Yes	Primacy
Idaho	IDWARN	2009	23	✓	40%	✓	✓	✓	Yes	Virtual/Primacy
Illinois	ILWARN	2008	60+	✓	80%	✓	✓	✓	Yes	Primacy
Indiana	InWARN	2007	133	✓	77%	✓	✓	✓	Yes	Primacy
Iowa	IOWARN	2009	50	✓	70%	✓	✓		Yes	Physical/Primacy
Kansas	KSMAP	2007	152	✓	30%	✓	✓	✓	Yes	Primacy
Kentucky	KYWARN	2008	68	✓	20%	✓	✓	✓	No	Primacy
Louisiana	LaWARN	2006	890	✓	80%	✓	✓	✓	No	Primacy
Maine	MEWARN	2008	120	✓	57%	✓	✓	✓	Yes	Primacy
Maryland	MDWARN	2009	17	✓	50%	✓	✓	✓	No	Primacy
Massachusetts	MaWARN	2007	70+	Public Only	33%	✓	✓	✓	No	Primacy
Michigan	MiWARN	2008	21	✓	>30%	✓	✓	✓	Yes	Primacy
Minnesota	MnWARN	2008	365	✓	75%	✓	✓	✓	No	Primacy
Missouri	MoWARN	2008	46	✓	23%	✓	✓	✓	Yes	Primacy
Montana	MTWARN	2008	13	✓	20%	✓	✓	✓	Yes	Primacy
National Capital Region	NCRWARN	2008	10	✓	76%	✓	✓	✓	Yes	Physical/Primacy
Nebraska	NEWARN	2008	174	✓	59%	✓	✓	✓	Yes	Primacy
Nevada	NvWARN	2008	21	✓	85%	✓	✓	✓	No	Primacy
New Hampshire	NHPWMA	1999	143	✓	50%	✓	✓	✓	Yes	Physical/Primacy
New Jersey	NJWARN	2008	14	✓	27%	✓	✓	✓	Yes	Physical/Primacy
New Mexico	NMWARN	2008	16	✓	34%	✓	✓		Yes	Primacy
New York	NYWARN	2008	153	✓	69%	✓	✓	✓	No	Physical/Primacy
North Carolina	NCWaterWARN	2008	99	✓	68%	✓	✓	✓	Yes	Physical/Primacy
North Dakota	NDWARN	2009	32	✓	20%	✓	✓	✓	Yes	Primacy
Ohio	OHWARN	2008	67	✓	50%	✓	✓	✓	Yes	Virtual/Primacy
Oklahoma	SoonerWARN	2008	88	✓	38%	✓	✓	✓	Yes	Primacy
Oregon	ORWARN	2008	105	✓	90%	✓	✓	✓	No	Physical/Primacy
Pennsylvania	PaWARN	2008	93	✓	60%	✓	✓	✓	No	Physical/Primacy
Rhode Island	RIWARN	2007	18	✓	79%	✓	✓		Yes	Virtual/Primacy
South Carolina	SCWARN	2007	61	✓	61%	✓	✓	✓	Yes	Primacy
South Dakota	SDWARN	2008	110	✓	50%	✓	✓	✓	Yes	Physical/Primacy
Tennessee	TNWARN	2008	15	✓	20%	✓	✓	✓	No	Primacy
Texas	TXWARN	2006	1250	✓	78%	✓	✓	✓	No	Physical/Primacy
Utah	UTWARN	2008	83	✓	51%	✓	✓	✓	No	Primacy
Vermont	VTWARN	2008	48	✓	45%	✓	✓	✓	Yes	Primacy
Virginia	VAWARN	2008	43	✓	45%	✓	✓	✓	Yes	Primacy
Washington	WAWARN	2008	85	✓	70%	✓	✓	✓	No	Primacy
West Virginia	WVWARN	2008	91	✓	50%	✓	✓	✓	Yes	Primacy
Wisconsin	WisWARN	2008	40	✓	53%	✓			No	Primacy
Wyoming	WYOWARN	2007	19	✓	40%	✓	✓	✓	No	Physical/Primacy

Key:

Membership	Number of water and wastewater utility members
Public and Private Members Included	Does the WARN have both public and private utilities as members?
Percent Population Covered	What percentage of a state's population is served by a CWS covered by a WARN?
Website	Does the WARN have a functioning website?
Operational Plan or Procedures	Has the WARN developed written operational procedures for activations?
WARN Activations	Has the WARN activated for an incident?
Primacy Agency on Steering Committee	Are state regulatory agencies on the WARN Steering Committee?
EOC Representation	Does the WARN have representation (state primacy agency staff, WARN member or online such as WebEOC) in the state EOC?

Alabama

- Activates through “utility to utility” contact via a phone call or email
- Successfully activated during the April 27, 2011, tornadoes and provided generators to affected utilities
- Maintains a relationship with the Alabama Department of Environmental Management
- Represented at the state Emergency Operations Center through the Alabama Department of Environmental Management

ALWARN Stats

- Formed in 2007
- 6 utility members
- Includes public & private utility members
- 10% population covered
- No website
- Has an operational plan
- ALWARN has activated



WARN Chair: Buddy Morgan, Montgomery Water Works & Sanitary Sewer Board
Contact info: 334-206-1607; tmorgan@mwwssb.com

Photo: April 2011 Tuscaloosa Tornado



AKWARN Stats

- Formed in 2011
- 4 utility members
- Includes public utility members
- 18% population covered
- <http://awwma.org/AKWARN/akwarn.html>
- Developing operational procedures
- AKWARN has not



Photo: DEC Disaster Response Plan

- Activates through “utility to utility” contact via a phone call or email
- In addition to member utilities, current Steering Committee organizations include the Alaska Department of Environmental Conservation (DEC), Alaska Rural Water Association and the Alaska Water Wastewater Management Association
- Represented at the state Emergency Operations Center through the Alaska DEC and Alaska Department of Transportation and Public Facilities
- Has established a Steering Committee
- Held a workshop and tabletop exercise on May 10, 2012
- Has set several Improvement Planning goals
 - Increasing AKWARN membership
 - Recruiting associate members
 - Participating in state level exercises

WARN Chair: Dan Monteleone, Alaska Department of Transportation and Public Facilities

Contact info: 907-269-6323; dan.monteleone@alaska.gov

WARN Vice Chair: Todd Cook, City of Homer

Contact info: 907-235-3170; tcook@ci.homer.ak.us

AZWARN Stats

- Activates through “utility to utility” contact via a phone call, email or web notification
 - Membership includes water and wastewater utility members, public agencies, and associate members
 - Maintains a relationship with the Arizona Department of Emergency Management (ADEM) and the Arizona Department of Environmental Quality (ADEQ)
 - AZWARN and ADEM are discussing representation at the state Emergency Operations Center
 - Successfully implemented a voluntary membership fee
 - Receives support from the AZ Water Association
 - Held a seminar and tabletop exercise on October 29, 2014
- Formed in 2008
 - 24 members from Public Utilities and Agencies
 - 75% population covered
 - www.azwarn.org
 - Operational Plan Adopted in November 2011
 - AZWARN has activated

WARN Chair: Steve Shepard, Metro Water District

Contact info: 520-209-2838; sshepard@metrowater.com



Arkansas



ARWARN Stats

- Formed in 2008
- 31 utility members
- Currently includes only public utility members
- 30% population covered
- www.arwarn.org
- Developing operational procedures
- ARWARN has activated



Photo: January 2009 Ice Storm

- Activates through three mechanisms:
 - 1) Utility -> Arkansas Department of Emergency Management -> ARWARN
 - 2) Utility -> ARWARN
 - 3) Utility -> Utility via phone call or email
- Finalized new website and plans to develop an online resource database
- The Steering Committee includes member utility and Arkansas Rural Water Association representatives
- Developing a relationship with the Arkansas Department of Health, Department of Environmental Quality and Department of Emergency Management
- Received calls for resources from the state Emergency Operations Center
- Held a workshop and tabletop exercise on September 26, 2013
- Activated three times in 2015 for incidents involving straight line winds, flooding and a transmission line failure
- Plans to recruit new utility and associate members and promote preparedness through continued outreach

WARN Chair: Thad Luther, Central Arkansas Water

Contact info: 501-377-1220; Thad.Luther@carkw.com

California



CalWARN Stats

- Formed in 1993
- 336 utility members
- Includes public and private utility members
- 85% population covered
- www.calwarn.org
- Has an operational plan
- CalWARN has activated



Photo: Napa earthquake response

- Member utilities are integrated with all levels of emergency management in the state
- The first official WARN
- Maintains an online resource database
- Organized into six regions, each with a Regional Chair
- In addition to member utilities, current associate members of the Steering Committee include the California Department of Public Health, California Department of Water Resources and water sector associations
- Represented at the state Emergency Operations Center (EOC) either physically or through the state partner agencies
- Developed water specific EOC position standard operating procedures for 58 counties, 3 state regions and the state EOC
- Holds regular meetings, sponsors training events and participates in annual statewide emergency management exercises
- Successfully activated during multiple incidents including:
 - 1994 Northridge earthquake
 - 1998 El Niño storm/flood
 - 2001 Calaveras fire
 - 2007 October wildfires
 - 2010 April earthquake
 - 2014 August Napa earthquake
 - 2015 September Valley Fire

WARN Chair: Ray Riordan

Contact info: 925-830-9180; rayriordan@comcast.net



Colorado

- Coordinates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, current Steering Committee members include the Colorado Department of Public Health and Environment, Colorado Rural Water Association, Rocky Mountain Water Environment Association, Rocky Mountain Section – AWWA, and the Rural Community Assistance Partnership
- Represented at the state Emergency Operations Center through state partner agencies
- Has a relationship with the Colorado Department of Homeland Security and Emergency Management
- Membership includes associate members
- Revised Mutual Aid Agreement to address member concerns
- Successfully activated for multiple incidents including:
 - 2008 Alamosa salmonella water contamination incident
 - 2013 Colorado floods
 - 2014 Loss of water service due to distribution system failures
 - 2015 Sewer line break and loss of water line due to flooding

CoWARN Stats

- Formed in 2006
- 90 utility members
- Includes public and private utility members
- 95% population covered
- www.cowarn.org
- Has an operational plan & bylaws
- CoWARN has activated



Photo: Alamosa, Colorado

WARN Chair: Lisa Barbato, Colorado Springs Utilities
Contact info: 719-668-8740; lbarbato@csu.org

Connecticut



CtWARN Stats

- Coordinates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, current Steering Committee members include the Connecticut Department of Public Health, Connecticut Department of Emergency Management and Homeland Security, Connecticut Public Utility Regulatory Authority and the New England Water Environment Association
- Represented at the state Emergency Operations Center through Steering Committee agencies
- Developing a relationship with the Connecticut Department of Emergency Services and Public Protection
- Has regular Steering Committee meetings
- Held a seminar and tabletop exercise on December 9, 2014
- Actively recruits associate members

- Formed in 2007
- 21 utility members
- Includes public and private utility members
- 54% population covered
- www.ctwarn.org
- Has an operational plan
- CtWARN has activated



Photo: 2011 Hurricane Irene

WARN Chair: Tom Barger, Regional Water Authority

Contact info: 203-401-2710; tbarger@rwater.com

Delaware



DEWARN Stats

- Formed in 2013
- 19 utility members
- Includes public and private utility members
- 90% population covered
- <http://www.drwa.org/dewarn.htm>
- DEWARN has activated



Photo: 2012 Hurricane Sandy

- Coordinates through “utility to utility” contact via a phone call or email
- Has an operations plan, website and membership committees
- Is actively recruiting new utility and associate members
- In addition to member utilities, Steering Committee associate members include the Delaware Department of Health and Social Services (DHSS) and the Delaware Department of Natural Resources and Environmental Control (DNREC)
- Represented at the state Emergency Operations Center through the Delaware DHSS and the Delaware DNREC
- Receives support from the Delaware Rural Water Association
- Held a seminar and tabletop exercise on May 6, 2014
- Held a training exercise in October 2015

WARN Chair: Rob Penman Jr., Artesian Water Company, Inc.

Contact info: 302-453-6946; Rpenman@artesianwater.com

- Formed in 2005
- Over 250 utility members
- Includes public and private utility members
- 80% population covered
- www.flawarn.org
- Has an operational plan
- FlaWARN has activated



Photo: 2005 Hurricane Wilma

- Activates during an incident through “utility to utility” contact via website event tracker. Members use phone calls, emails and the event tracking system to coordinate assistance
- In addition to member utilities, current Steering Committee organizations include the Florida Department of Environmental Protection and water sector association representatives
- Occupies a seat at the ESF#10 desk in the state Emergency Operations Center during events
- Responds by coordinating FlaWARN, StormTracker and EMConstellation data to avoid duplicate requests for assistance
- Collaborates with FRWA, Florida Section AWWA, FWEA, UF/TREEO, Southeast Desalt and FWPCOA (operators association)
- Holds five regional meetings or tabletop exercises, a state training conference and participates in the state hurricane exercise each year
- Has successfully activated during several hurricanes and has successful Intra- and Interstate deployments, activations and coordination

WARN Chair: Scott Kelly, City of West Palm Beach

Contact info: 561-822-1400; SDKelly@wpb.org

Vice Chair: Gary Williams, Florida Rural Water Association

Contact info: 850-668-2746; Gary.Williams@frwa.net

Georgia



Georgia Water/Wastewater Agency Response Network

GAWARN Stats

- Formed in 2007
- Over 50 utility members
- Includes public and private utility members
- 80% population covered
- www.gawarn.org
- Has an operational plan
- GAWARN has activated



Photo: September 2009 Georgia Flood

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, current Steering Committee organizations include the Georgia Environmental Protection Division (EPD), the Georgia Emergency Management Agency, county agencies and water sector associations
- Represented physically at or through the EPD at the state Emergency Operations Center
- Held a workshop and tabletop exercise on October 11, 2012
- Activated during several flooding, tornado and winter storm incidents
- Has set several Improvement Planning goals:
 - Recruit more GAWARN members
 - Update the GAWARN website
 - Develop criteria for mission ready packages that can be deployed during WARN activations

WARN Chair: Sandy Smith, DeKalb County Department of Watershed Mgmt.
Contact info: 770-391-6040; sasmith2@dekalbcountyga.gov

Hawaii

- Activates through “utility to utility” contact via a phone call or email
- Continuing goal is to have all four county water systems join HIWARN
- May extend membership to county wastewater systems and private water utilities in the future
- In addition to member utilities, the Steering Committee includes the State Department of Health
- Represented at the state Emergency Operations Center through the State Department of Health
- Held a tabletop exercise with all county water supply entities at the annual Hawaii Waterworks Association conference on October 15, 2014
- Focused on finalizing their operational plan to address resource management and transportation challenges unique to the Hawaiian Islands
- In August 2014, with Hurricane Iselle targeting the Hawaiian chain, the Kauai Department of Water (DOW) was ready to provide resources to other counties if requested
- In September 2014, the Kauai DOW sent a 400kW emergency generator to the County of Hawaii Department of Water Supply for Puna Lava Flow emergency response. HIWARN Operational Plan notification, request and authorization forms were discussed during the transfer.

WARN Chair: Michael Miyahira, Hawaii Department of Health, Safe Drinking Water Branch

Contact info: 808-586-4258; michael.miyahira@doh.hawaii.gov

HIWARN Stats

- Formed in 2012
- 3 county water utility members
- Includes public water utility members only
- 75% population covered
- No website
- Developing an operational plan
- HIWARN has activated

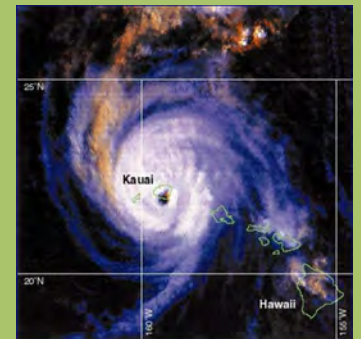


Photo: September 1992, Hurricane Iniki

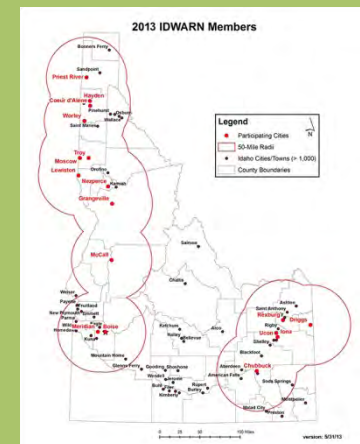
- Activates through “utility to utility” contact via a phone call or email
- Utilizes “WebEOC” as supported by the state Emergency Operations Center
- Organized into six regions, each with a chair and vice chair
- In addition to member utilities, the Steering Committee includes the Idaho Department of Environmental Quality
- Has a relationship with the Idaho Bureau of Homeland Security
- Receives support from the Idaho Rural Water Association
- Held a workshop and tabletop exercise on September 29-30, 2011
- Coordinates with WAWARN and ORWARN during periodic regional water association meetings

WARN Chair: Shelley Roberts, Idaho Rural Water Association

Contact info: 208-343-7001; sroberts@idahoruralwater.com

IDWARN Stats

- Formed in 2009
- 23 utility members
- Includes public and private utility members
- 40% population covered
- www.idwarn.org
- Has an operational plan
- IDWARN has activated



- Coordinates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, the Steering Committee includes the Illinois Environmental Protection Agency, Illinois Rural Water Association and Illinois Section – AWWA
- Not represented at the state Emergency Operations Center, but it is a goal for 2016
- EPA provided assistance in developing Improvement Planning objectives in 2015
- Associate membership includes professional organizations and state agencies
- Future goals include strengthening the relationships between ILWARN and water associations that work with smaller communities and strengthening the relationship between ILWARN and all levels of emergency management

ILWARN Stats

- Formed in 2008
- 60+ utility members
- Includes public and private utility members
- 80% population covered
- www.ilwarn.org
- Has an operational plan
- ILWARN has activated



ILWARN Chair: Josh Stewart, City Water Light & Power (Springfield)
Contact info: 217-789-2323; josh.stewart@cwlp.com

InWARN Stats

- Formed in 2007
- 133 utility members
- Includes public and private utility members
- 77% population covered
- www.inwarn.org
- Has an operational plan
- InWARN has not been activated



Photo: 2012 Henryville Tornado

- Activates through “utility to utility” contact via a phone call, email or the website
- Maintains an online resource database
- In addition to member utilities, the Steering Committee includes representatives from the Indiana Department of Environmental Management, the Department of Homeland Security, Indiana Association of Cities and Towns, Indiana Rural Water Association, the Alliance of Indiana Rural Water, Indiana AWWA and Indiana Water Environment Association
- Represented at the state Emergency Operations Center through the state agencies on Steering Committee
- Actively recruits sponsorships in addition to being self-funded
- Uses the website for communications and resource sharing
- Held a seminar and tabletop exercise on October 29, 2015

WARN Chair: Jaimie Foreman, City of Carmel Water Utilities

Contact info: 317-379-3115; jforeman@carmel.in.gov





IOWARN Stats

- Formed in 2009
- 50 utility members
- Includes public and private utility members
- 70% population covered
- www.iowarn.org
- Has an operational plan
- IOWARN has not activated



Photo: 2008 Flooding in Cedar Rapids

- Coordinates through “utility to utility” contact via telephone call or email
- Steering Committee is composed of utility members
- Represented at the state Emergency Operations Center through the Iowa Department of Natural Resources
- Collaborates with the Iowa Rural Water Association
- Partnered with emergency management to train operators on several emergency water purification units for use in Iowa
- Website improvements are planned for fourth quarter 2015
- 2015 Improvement Planning goals
 - Recruit additional IOWARN members
 - Promote additional emergency water purification training
 - Continue to develop and strengthen the relationship with all levels of emergency management

WARN Co-Chairs:

Rick Mach, City of Sioux City

Contact info: 712-224-5010; rmach@siouxcity.org

John Lins, Des Moines Water Works

Contact info: 515-323-6234; lins@dmww.com

Kansas



KSMAP Stats

- Formed in 2007
- 152 utility members
- Includes public and private utility members
- ~30% population covered by public utility members*
- www.ksmap.org
- Has an operational plan
- KSMAP has activated



Photo: May 2007 Greensburg Tornado

- Activates through Kansas Municipal Utilities (KMU) and Kansas Rural Water Association (KRWA) through contact via a phone call or email
- Maintains an online resource database
- Steering Committee includes representatives from the KMU, KRWA, AWWA – Kansas Section, Kansas Water Environment Association, Kansas Municipal Energy Agency and Kansas Power Pool
- Represented at the state Emergency Operations Center through Steering Committee partner agencies
- Supported by the Kansas Division of Emergency Management, Kansas Department of Health and Environment and Kansas Corporation Commission
- Recruiting additional participants
- Presented at association meetings
- Has been activated for both emergency and non-emergency assistance (primarily electric system mutual aid)
- Conducted Mutual Aid Summit in January 2015 with training and tabletop exercise
- Held a seminar and tabletop exercise on October 20, 2015
- *Membership includes public and private water, wastewater, gas and electric utilities

WARN Chair: Jim Brummer, City of Hutchinson

Contact info: 620-694-1900; jimb@hutchgov.com

KSMAP Coordinator: Brad Mears, Kansas Municipal Utilities

Contact info: 620-241-1423; bmears@kmunet.org

Kentucky



KYWARN Stats

- Formed in 2008
- 68 utility members
- Includes public and private utility members
- 20% population covered
- www.kywarn.org
- Maintains an operational plan
- KYWARN has activated

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database which is linked to a statewide database that is maintained by the Kentucky Infrastructure Authority and allows utilities to search for needed resources
- The Steering Committee is composed of member utility representatives
- Represented at the state Emergency Operations Center through the Kentucky Department of Environmental Protection
- Has a relationship with the Kentucky/Tennessee Section AWWA, Kentucky Rural Community Assistance Partnership and the Kentucky Water & Wastewater Operator Association
- Works with the Kentucky Rural Water Association during incidents
- Held a workshop and tabletop exercise on October 26, 2011
- Successful activations include several flooding incidents in July 2010 in Pike County in eastern Kentucky



Photo: 2010 Pikeville Flooding

WARN Chair: Glen Mudd, Louisville Water Company

Contact info: 502-583-6610 x1859; gmudd@lwcky.com

Louisiana

- Activation is through “utility to utility” contact via a phone call or email
- The Steering Committee is composed of member utility and Louisiana Rural Water Association representatives
- Represented at the state Emergency Operations Center through the Louisiana Department of Environmental Quality and Louisiana Department of Health
- Receives financial assistance from the Louisiana Rural Water Association and the Louisiana Department of Health.
- Supported by over 200 associate members
- Holds tabletop exercises every April with water and wastewater utilities, as well as a National Rural Water Association Emergency Response training with Arkansas and Florida Rural Water Associations to prepare for hurricane season

WARN Chair: Patrick Credeur, Louisiana Rural Water Association
Contact info: 337-738-2896; pclrwa@centurytel.net

LaWARN Stats

- Formed in 2006
- 890 utility members
- Includes public and private utility members
- 80% population covered
- <http://lrwa.org/about/programs/>
- Has an Operational Plan
- LaWARN has activated



Photo: Town of Buras after Hurricane Katrina

Maine



MEWARN Stats

- Formed in 2008
- 120 utility members
- Includes public and private utility members
- 57% population covered
- www.mewarn.org
- Has an operational plan
- MEWARN has activated



- Coordinates through “utility to utility” contact via a phone call or email
- The Steering Committee is composed of member utility representatives
- Reviewing a potential MOU with the Maine Emergency Management Agency (MEMA) that specifies coordination with MEWARN for water and wastewater services, and that MEMA will inform MEWARN of an Emergency Operation Center activation
- Has a relationship with the Maine Department of Environmental Protection and Public Service Commission
- Maine Rural Water Association is a supporter
- Recruits sponsoring organizations and raises money through selling merchandise
- Holds yearly workshops and tabletop exercises, most recently on October 23, 2014
- Successful incident activations include:
 - 2012 Alfred Water District pump failure
 - 2012 Canton Water District water main break
 - 2013 Milo Water District water main leak
 - 2013 Ellsworth Water Department request for a large generator
 - 2014 Winterport Water District loss of power to well pumps

Interim WARN Chair: Ray Lussier, Life Safety Specialists
Contact info: 207-744-0135; ray.lifesafety@gmail.com

Maryland



- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, the Steering Committee includes a representative from the Maryland Rural Water Association (MRWA)
- Represented at the state Emergency Operations Center through the Maryland Department of the Environment
- Working with the MRWA to recruit members from small water and wastewater systems
- Held a workshop and tabletop exercise on April 30, 2013
- Successfully activated during a major 54-inch water main replacement, providing water buffaloes to the affected utility in July 2013
- Goals include recruiting more members and conducting a future functional communications based exercise

MDWARN Stats

- Formed in 2009
- 17 utility members
- Includes public and private utility members
- 50% population covered
- www.mdwarn.org
- Has an operational plan
- MDWARN has activated



Photo: July 2013 WARN response

WARN Chair: Steve Gerwin, Howard County Bureau of Utilities
Contact info: 410-313-4912; SGerwin@howardcountymd.gov

Massachusetts



MaWARN Stats

- Activation is through “utility to utility” contact via a phone call or email
 - Maintains an online resource database
 - The Steering Committee is composed of member utility representatives
 - Represented in the state Emergency Operations Center through the Massachusetts Department of Environmental Protection and Massachusetts Emergency Management Agency
 - Collaborates with the Mass Rural Water Association, Massachusetts Water Works Association, New England Water Works Association and several county water associations
 - Activated during Superstorm Sandy in 2012
- Formed in 2007
 - Over 70 utility members
 - Open to all publicly owned water and wastewater systems
 - 33% population covered
 - www.mawarn.org
 - Has an operational plan
 - MaWARN has activated

WARN Chair: Savas Danos, Panton McLeod – Americas
Contact info: 978-501-6967; savas.danos@pantonmcleod.com



Photo: Massachusetts Ice Storm

Michigan



MiWARN Stats

- Formed in 2008
- 21 members
- Includes public and private utility members & public works agencies
- >30% population covered
- www.miwarn.org
- Has an operational plan
- MiWARN has activated



Photo: 2012 Snowstorm

- Coordinates through “member to member” contact via a phone call or e-mail, and via the MiWARN website (through the Michigan Critical Incident Management System)
- Organized into eight geographic regions consistent with the eight districts established by the Michigan State Police Emergency Management and Homeland Security Division
- The Steering Committee is composed of member utility representatives and partners
- Represented at the state Emergency Operations Center through the Michigan Department of Environmental Quality
- Collaborates with the following partners: Michigan Rural Water Association, Michigan Water Environment Association, American Public Works Association and American Water Works Association
- Held a tabletop exercise with EPA on May 21, 2015

WARN Co-Chairs:

Tim Faas, Canton Township
Contact info: 734-394-5160;
tim.faas@canton-mi.org

Tim Neumann, Michigan Rural Water Association
Contact info: 989-539-4111;
tneumann@mrwa.net

Minnesota



MnWARN Stats

- Formed in 2008
- 365 utility members
- Includes public and private utility members
- 75% population covered
- www.mnwarn.org
- Has an operational plan
- MnWARN has activated



Photo: Southern Minnesota Flooding

- Activates through “utility to utility” contact via a phone call or email, and also through the Minnesota Duty Officer Program
- Organized into six regions that mirror the Minnesota Homeland Security and Emergency Management regions, and each region has a regional coordinator
- Has good relationships with many state agencies including the Minnesota Department of Health, Minnesota Pollution Control Agency, Minnesota Department of Natural Resources and Minnesota Homeland Security
- In addition to member utility representatives, the Steering Committee includes representatives from the American Water Works Association, Minnesota Wastewater Operators Association, Minnesota Rural Water and Minnesota Municipal Utilities Association.
- Held a workshop and tabletop exercise on July 31, 2012 and hosts annual conferences
- MnWARN has activated 39 times since 2010, including the June 2012 flooding in the northeast Lake Superior area
- Has set several Improvement Planning goals
 - Review MnWARN incidents with the Minnesota Duty Officer Program
 - Recruit more MnWARN members
 - Encourage member utilities to update their contact information and resources
 - Develop MnWARN "Mission Ready Packages"
 - Develop and strengthen the relationship with all levels of emergency management

WARN Chair: Pete Moulton, City of Saint Peter

Contact info: 507-469-0761; petem@saintpetermn.gov

Missouri



MoWARN Stats

- Formed in 2008
- 46 utility members
- Includes public and private utility members
- 23% population covered
- www.mowarn.org
- Has operational procedures
- MoWARN has activated

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- The Steering committee includes representatives from member utilities, the Missouri Department of Natural Resources (DNR) and the Missouri Rural Water Association
- Represented at the state Emergency Operations Center and the state Business Emergency Operations Center through the Missouri DNR
- Held a workshop and tabletop exercise on September 5, 2013
- Activated during the January 2009 ice storm, and the 2011 and 2013 flooding incidents
- Future goals include:
 - Increase overall membership to include large cities
 - Build relationships with potential response partners including electrical cooperatives

WARN Chair: Randy Norden, Missouri Rural Water Association
Contact info: 417-988-9911; rnorden@moruralwater.org



Photo: 2009 Ice Storm

Montana



Montana Water/Wastewater Agency Response Network

MTWARN Stats

- Formed in 2008
- 13 utility members
- Includes public and private utility members
- 20% population covered
- www.mtwarn.org
- Has an operational plan
- MTWARN has Activated



Photo: Bozeman – March 2009

- Coordinates through “utility to utility” contact via a phone call or email
- Maintains a secure online resource database for members
- Has 10 associate members
- In addition to member utilities, the Steering Committee includes representatives from Montana Rural Water Systems, Montana Water Environment Association, Montana Section AWWA, as well as other water and response agencies
- Represented in the state Emergency Operations Center through the Montana Department of Environmental Quality, Montana Department of Disaster and Emergency Services and Montana Water/Wastewater Critical Infrastructure Committee
- Held a MTWARN 101 workshop on February 17, 2010, and another workshop and tabletop exercise on November 9, 2011
- Over two dozen presentations about MTWARN have been made, thousands of brochures have been handed out, hats have been given to members, and a display board is set up at functions throughout the state
- Future goals are to recruit more members and associate members while looking for funding sources for the network

WARN Chair: Wayne Lovelis, City of Great Falls

Contact info: 406-727-1325; wlovelis@greatfallsmt.net



- Activates through “utility to utility” contact via a phone call or email
- In addition to member utilities, the Steering Committee includes representation from the Metropolitan Washington Council of Governments (MWCOC)
- Represented in Emergency Operations Centers throughout the region through a collaboration with primacy agencies, emergency management agencies and water associations
- Debuted a new website and offered a tutorial to MWCOC members in May 2014. The new website includes a GPS feature and is adaptable to various screen sizes, so it is smartphone and tablet compatible.
- Has activated to offer assistance during the following incidents
 - 2011: Hurricane Irene and Tropical Storm Lee
 - 2012: Derecho and Superstorm Sandy
 - 2014: West Virginia Elk River spill
- Participated in a June 3, 2015 Potomac River spill exercise
- Has set several Improvement Planning goals including:
 - Promoting NCRWARN to smaller communities
 - Developing an online resource database

WARN Chair: Steve Bieber, Metropolitan Washington Council of Governments
Contact info: 202-962-3219; sbieber@mwkog.org

NCRWARN Stats

- Formed in 2008
- 10 utility members from Washington, D.C., Virginia, and Maryland
- Includes public and private utility members
- 76% population covered
- www.ncrwarn.org
- Has an operational plan
- NCRWARN has activated



Photo: Hurricane Sandy response

- Formed in 2008
- 174 utility members
- Includes public and private utility members
- 59% population covered
- www.newarn.org
- Has an operational plan
- NEWARN has activated



Photo: June 2010 Flooding

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database and has created tutorials to show members how to use the database
- Organized into eight regions
- Has an established Steering Committee that includes advisory members from the Nebraska Department of Health and Human Services (DHHS) and Department of Environmental Quality (DEQ) among many others
- Represented in the state Emergency Operations Center through the DHHS and DEQ
- Receives support from the Nebraska Rural Water Association
- Membership includes associate members
- Held a workshop and tabletop exercise on August 21, 2012
- Successful activations include:
 - June 2010 water main break in Stanton
 - June 2011 flooding in Dakota City
 - June 2011 lightning strike in Humphrey
 - June 2014 tornado in Sutton
 - June 2014 tornado in Cordova
 - June 2014 tornado in Beaver Crossing
 - July 2014 tornado in Pilger
- Has set several Improvement Planning goals including:
 - Securing a seat at the state Emergency Operations Center
 - Encouraging members to add their resources to the online database
 - Recruiting more members

WARN Chair: Dennis Watts, City of Norfolk
Contact info: 402-844-2210; dwatts@ci.norfolk.ne.us

Vice Chair: Ken Swanson, Auburn Board of Public Works
Contact info: 402-274-4981; kswanson@auburnbpw.com

Nevada



NvWARN Stats

- Formed in 2008
- 21 utility members
- Includes public and private utility members
- 85% population covered
- www.nvwarn.org
- Has an operational plan
- NvWARN has activated



- Coordinates through “utility to utility” contact via website, a phone call, or email
- Maintains an online resource database
- The Steering Committee is comprised of utility member representatives
- Represented at the state Emergency Operations Center through the Nevada Division of Environmental Protection and Nevada Division of Emergency Management
- Collaborates with the Nevada Rural Water Association
- Collaborates and conducts joint training with CalWARN
- Activated after *E. coli* was found in a Verdi mobile home park during a routine water test

Interim WARN Chair: John Hines, Las Vegas Valley Water District
Contact info: 702-258-3116; john.hines@lvvwd.com

New Hampshire



NHPWMA Stats

- Formed in 1999
- 143 members
- Includes public and private utility members
- ~50% population covered by water and wastewater members
- <http://www.t2.unh.edu/ma/>
- Has an operational plan
- NHPWMA has



Photo: December 2008 New Hampshire Ice Storm

- Activates through “utility to utility” contact via a phone call or email
- Membership includes highway departments and building inspectors in addition to water and wastewater utilities
- Maintains an online resource database
- Boards members include public works, water sector, and road agent representatives, along with representatives from the NH Department of Environmental Services, NH Department of Transportation and NH Homeland Security & Emergency Management
- Represented at the state Emergency Operations Center
- Receives support from the University of New Hampshire, Technology Transfer Center
- Held a seminar and tabletop exercise on October 22, 2015
- Has successfully activated during several incidents
 - April 2007 flood
 - July 2008 tornado
 - December 2008 ice storm

NHPWMA Chair: Kurt Grasset, Town of Hancock

Contact info: 603-525-4087; hwydept@hancocknh.org

- Coordinates through “utility to utility” contact via a phone call or email
- In addition to member utilities, the Steering Committee includes representatives from the New Jersey Water Association, New Jersey Department of Environmental Protection, New Jersey Board of Public Utilities, U.S. EPA, AWWA and the Association of Environmental Authorities
- Represented at the state Emergency Operations Center both physically or through partnerships with Steering Committee representatives
- Activated during Superstorm Sandy in 2012
- Has set several Improvement Planning goals
 - Increasing NJWARN membership
 - Updating the website
 - Improving coordination between utilities and emergency management

WARN Chair: Vacant

NJWARN Stats

- Formed in 2008
- 14 utility members
- Includes public and private utility members
- 27% population covered
- www.njwarn.org
- Developing an operational plan
- NJWARN has activated



Photo: Superstorm Sandy

New Mexico



NMWARN Stats

- Formed in 2008
- 16 utility members
- Includes public and private utility members
- 34% population covered
- <http://www.nmrwa.org/nmwarn>
- Developing an operational plan
- NMWARN has not

- Activation is through “utility to utility” contact via a phone call or email
- In addition to member utilities, the Steering Committee includes representatives from the New Mexico Rural Water Association (NMRWA) and others
- Represented at the state Emergency Operations Center through the New Mexico Environment Department and New Mexico Department of Homeland Security and Emergency Management
- Receives administrative and technical support from the NMRWA
- Has multiple associate members
- Held a seminar and tabletop exercise on October 19, 2012
- Has set several Improvement Planning goals
 - Recruit more members and work closer with emergency management
 - Finalize the Operational Plan

WARN Chair: Don Cole, City of Las Vegas

Contact info: 505-429-6326; doncole2000@msn.com



Photo: 2003 Encebado Fire

NYWARN Stats

- Formed in 2008
- 153 utility members
- Includes public and private utility members
- 69% population covered
- www.nywarn.org
- Has an operational plan
- NYWARN has activated

- Activates through “utility to utility” contact via a phone call, email or the website
- Maintains an online resource database
- Organized into five regions, each with a regional chair
- The Steering Committee is comprised of member utilities, representatives from the New York State Department of Health, Environmental Conservation and Division of Homeland Security and Emergency Services, as well as the New York Section AWWA, New York Rural Water Association and New York Water Environment Association
- Represented at the state Emergency Operations Center in the Logistics Section. Steering Committee members are undergoing training for the role.
- Started a recruitment program for sponsors
- Working with the state Division of Homeland Security and Emergency Services regarding stockpiled water sector equipment
- Held a workshop and tabletop exercise on May 20, 2010
- Successfully activated during Superstorm Sandy in 2012
- Updated the website in 2015

WARN Chair: Judy Hansen, City of Kingston
Contact info: 845-943-8223; jhansen@kingston-ny.gov

NYWARN NYSAWWA Coordinator, Jenny Ingrao jenny@nysawwa.org
NYWARN NYWEA Coordinator, Patricia Cerro Reehil pcr@nywea.org
NYWARN NYRWA Coordinator, Patricia Scalera Scalera@nyruralwater.org



Photo: Superstorm Sandy

North Carolina

NCWaterWARN Stats

- Coordinates through “utility to utility” contact via a phone call or email
- The Steering Committee is comprised of member utility representatives
- NCWaterWARN staff is represented physically at the state Emergency Operations Center during activations
- Receives support from North Carolina Emergency Management (NCEM), as well as many other state departments and associations
- Has a relationship with the North Carolina AWWA – WEA and North Carolina Rural Water Association
- Organized into regions which mirror those of the North Carolina Department of Environmental Quality with coordinators in each region
- Held a seminar and tabletop exercise on October 1, 2014
- Held joint workshops and TTXs with Southeast Rural Community Assistance Project in September 2014, February 2015 and May 2015 – each in different regions
- Signed MOA with NCAWWA-WEA to host website and provide website financial support as needed on an annual basis
- Included in NCEM re-entry credentialing
- Involved with NCEM in development of the state’s Electromagnetic Pulse Response Plan

- Formed in 2008
- 99 utility members
- Includes public and private utility members
- 68% population covered
- www.ncwaterwarn.org
- Has an operational plan
- NC Water WARN has activated

WARN Chair: Mike Richardson, Cape Fear Public Utility Authority
Contact info: 910-332-6723; michael.richardson@cfpua.org

WARN Secretary: Eric Hatcher, Cape Fear Public Utility Authority
Contact info: 910-332-6508; eric.hatcher@cfpua.org



Photo: 2012 Hurricane Sandy

North Dakota

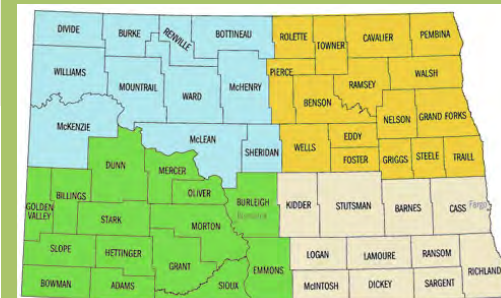
NDWARN North Dakota Water/Wastewater Agency Response Network

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, the Steering Committee includes representatives from the North Dakota Rural Water Systems Association, North Dakota Section – AWWA and others
- Represented at the state Emergency Operations Center through the North Dakota Department of Health
- Developing a relationship with the North Dakota Department of Emergency Services (NDDDES)
- Organized into four regions that were established by the NDDDES
- Held a workshop on August 28, 2013 and September 24, 2015
- Participated in the MHA Nation/Oil Industry Exercise – October 22, 2014
- Activated during the 2013 Red River floods

NDWARN Stats

- Formed in 2009
- 32 utility members
- Includes public and private utility members
- 20% population covered
- www.ndwarn.org
- Has an operational plan
- NDWARN has activated

WARN Facilitator: Greg Wavra, North Dakota Department of Health
Contact info: 701-328-5224; gwavra@nd.gov



Ohio

OHWARN The Ohio Water / Wastewater
Agency Response Network

"Utilities Helping Utilities"

- Activates through "utility to utility" contact via a phone call or email
- In addition to member utilities, the Steering Committee includes advisory representatives from Ohio RCAP, Ohio Rural Water Association, Ohio EPA and Ohio EMA
- Represented at the state Emergency Operations Center physically or through advisory Steering Committee representatives
- Has 33 non-utility (e.g., EMA) members
- Organized into four districts; each has a District Coordinator who may assist during a large scale incident
- Held a workshop and tabletop exercise in 2013
- Activated to locate couplings for the city of Cleveland in August 2013
- Activated to provide water main leak detection assistance for the city of Gallipolis in June 2014 in response to system depressurization
- Has set several improvement planning goals
 - Encouraging members to build a good relationship with their response partners
 - Promoting more county EMA Directors to join as Non-Utility members so they can receive all emergency notification e-mails from website
 - Recruiting more members
 - Scheduling annual membership and training workshops with the Ohio EMA and Ohio EPA

WARN Chair: Darryl Key, Northeast Ohio Regional Sewer District

Contact info: 216-641-6000; keyd@neorsd.org

WARN Vice-Chair: Sarah Moore, City of Columbus

Contact Info: 614-645-2413; slmoore@columbus.gov

OHWARN Stats

- Formed in 2008
- 77 utility members
- Includes public and private utility members
- 50% population covered
- www.ohwarn.org
- Updated operational plan in 2015
- OHWARN has activated



Photo: June 2014 Gallipolis, Ohio

Oklahoma

SoonerWARN

Bringing the water utility community together.

- Activates through “utility to utility” contact via 1-800-522-0206 (24/7) or kristie.valteirra@deq.ok.gov or www.soonerwarn.gov
- The Steering Committee includes representatives from the Oklahoma Rural Water Association, Department of Environmental Quality, Department of Emergency Management, Association of Regional Councils of Government, Oklahoma Municipal League and the Oklahoma Water Environment Association
- Represented at the state Emergency Operations Center through the state partner agencies
- Has ten city/county emergency management agency members
- Has successfully activated during several incidents including tornados, ice storms and water outages

SoonerWARN Stats

- Formed in 2008
- 88 utility members
- Includes public and private utility members
- 38% population covered
- www.soonerwarn.org
- Has operational procedures
- SoonerWARN has activated



Photo: May 2013 – Moore Tornado

WARN Chair: Debbie Nichols, Oklahoma DEQ

Contact info: 405-702-6185; debbie.nichols@deq.ok.gov

- Activates through “utility to utility” contact via a phone call or email, or via board members
- Members input resources they are willing to provide into ORWARN’s online resource database, which is organized into four regions for member convenience
- The Steering Committee is comprised of member utility representatives
- Represented at the state Emergency Coordination Center through a seat in the ODOT Department Operations Center for ESF#3
- Participated in the 2016 Cascadia Rising Exercise
- Has a relationship with the Oregon Department of Environmental Quality and Oregon Health Authority
- Collaborates with the Oregon Association of Water Utilities, PNCWA and Oregon Office Emergency Management
- Holds an annual conference, monthly meetings and regular trainings
- Participated in emergency water treatment and distribution exercise using the Urban Areas Security Initiative program and other supplied equipment
- Membership includes several associate members

WARN Chair: Ken Schlegel, Clean Water Services

Contact info: 503-681-5125; schlegelk@cleanwaterservices.org

Vice Chair: Chris Wanner, Portland Water Bureau

Contact info: 503-823-4050; chris.wanner@portlandoregon.gov

ORWARN Stats

- Formed in 2008
- 114 utility members
- Includes public and private utility members
- 90% population covered
- www.orwarn.org
- Has an operational plan
- ORWARN has activated



Photo: 2008 Blizzard – City of Detroit

Pennsylvania

PaWARN Pennsylvania's Water/Wastewater Agency Response Network

- Activates through “utility to utility” contact via a phone call, posting an emergency on the PaWARN website or through email coordination with state agencies
- Maintains an online resource database
- Is a self sustaining 501(c)3 nonprofit that is funded by member dues, donations and training fees
- The 13 member PaWARN Board is comprised of water and wastewater representatives from each of the state’s six DEP regions along with an at-large representative
- Has a seat at the state Emergency Operations Center when a severe emergency directly impacts community water supplies or creates the potential for wastewater overflows and a virtual seat for less severe emergencies
- Has successfully activated during several incidents including water main breaks, floods, power outages and winter storms

PaWARN Facilitator: Mark Nicely, Fox Chapel Water
Contact info: 412-963-0212; mnicely@foxchapelwater.com

PaWARN Coordinator: Mike Snyder
Contact info: 717-774-8870; mikesnyder@pawarn.org

PaWARN Stats

- Formed in 2007
- 93 utility members
- Includes public and private utility members
- 60% population covered
- www.pawarn.org
- Has an operational plan
- PaWARN has activated at least once per year since 2007



Photo: Hurricane Irene

Rhode Island



RIWARN Stats

- Formed in 2007
- 18 utility members + 4 associate members
- Includes public and private utility members
- 79% population covered
- www.riwarn.org
- Has an operational plan
- RIWARN has not activated



- Activates through “utility to utility” contact via a phone call or email
- In addition to member utilities, the Steering Committee includes associate member representatives from the Rhode Island Department of Environmental Management, Department of Health and Emergency Management Agency
- Receives support from the Atlantic States Rural Water Association
- Represented at the state Emergency Operations Center through a WebEOC account and state partner agencies
- Schedules quarterly meetings at different locations
- Has sponsored or participated in several workshops and Incident Command System trainings
- Held a seminar and tabletop exercise on September 30, 2015
- Has set several future goals:
 - Develop online inventory of resources and type the resources
 - Increase membership
 - Work with EPA and AWWA to help develop a New England Interstate WARN Agreement
 - Train more utility members on basic ICS

WARN Chair: Dave Aucoin, Narragansett Bay Commission

Contact info: 401-461-8848; daucoin@narrabay.com

WARN Vice Chair: Gary Marino, Providence Water

Contact info: 401-521-6300; gmarino@provwater.com

South Carolina



SCWARN

South Carolina Water/Wastewater Agency Response Network

SCWARN Stats

- Formed in 2007
- 61 utility members
- Includes public and private utility members
- 61% population covered
- www.scwarn.org
- Has operational procedures
- SCWARN has activated



Photo: July 2013 Collection Main Break

- Coordinates through “utility to utility” contact via the interactive website, phone call or email
- In addition to member utilities, the Steering Committee includes a representative from the South Carolina Department of Health and Environmental Control, Emergency Management Division, Rural Water Association, American Water Works Association and the Water Environment Association of South Carolina
- Represented at the state Emergency Operations Center through state partner agencies with no dedicated seat as of now
- Successfully activated in at least four incidents, including in July 2013 when Greenville Water provided Renewable Water Resources with a large backhoe and crew to repair a sewer collection line break
- Held a workshop and tabletop exercise on January 14, 2014
- Held a workshop on January 22, 2015 and participated in the U.S. EPA Region 4 EMAC workshop
- Has set several goals including:
 - Increase the number of member utilities
 - Strengthen the relationship with response partners
 - Make the website more intuitive to promote using it as first option
 - Training member utilities on all emergency related topics (NIMS, Risk Assessments, Emergency Response Plans, use of SCWARN website)

WARN Chair: Kyle Lindsay, Renewable Water Resources

Contact info: 864-299-4040; kylel@re-wa.org

WARN Vice Chair: Jill Miller, SCRWA

Contact info: 864-238-0505; jill@scrwa.org

South Dakota

SDWARN South Dakota's Water/Wastewater Agency Response Network

SDWARN Stats

- Formed in 2008
- 110 utility members
- Includes public and private utility members
- 50% population covered
- www.sdwarn.org
- Has an operational plan
- SDWARN has activated



Photo: 2011 Missouri River Flood

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, the Steering Committee includes representatives from the state Department of Environment and Natural Resources, Office of Emergency Management, Rural Water Systems, AWWA, Water Environment Association and others
- Represented at the state Emergency Operations Center either physically or through state partner agencies
- Is organizing as a sub-committee under the Rural Water Center’s 501(c)(3) emergency response framework
- Has a tribal system member
- Has a Fortune 500 corporate subsidiary member: Coca Cola
- Successfully activated during several incidents
 - 2011 Missouri River floods
 - 2012 city of Bison water outage
- Set several Improvement Planning goals
 - Website updates
 - Recruit more members

WARN Chair: Brad Lawrence, City of Madison

Contact info: 605-256-7522; brad.lawrence@cityofmadison.com

WARN Vice Chair: Greg Merrigan, Clay Rural Water

Contact info: 605-267-2088; greg.merrigan@clayruralwater.com

Tennessee



Tennessee WARN

The Tennessee Water / Wastewater Agency Response Network



- Coordinates through “utility to utility” contact via a phone call or email, and the 24-hour Tennessee Emergency Management Agency number
- Maintains an online resource database
- Has a relationship with the Tennessee Department of Environment and Conservation (TDEC)
- The Steering Committee is comprised of member utility representatives
- Receives support from Tennessee Association of Utility Districts, as well as from other state and regional associations
- Represented at the state Emergency Operations Center through TDEC
- Organized into three geographic divisions for more immediate response
- Successfully activated during a 2009 ice storm
- Held a seminar and tabletop exercise on September 17, 2014 with 82 participants
- Revising the Mutual Aid and Assistance Agreement

TNWARN Stats

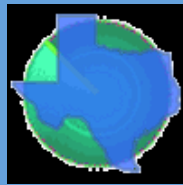
- Formed in 2008
- 15 utility members
- Includes public and private utility members
- 20% population covered
- www.tnwarn.org
- Has an operational plan
- TNWARN has activated



Photo: May 2010 Nashville Flooding

WARN Chair: Hal Balthrop, Metro Water Services – Nashville
Contact info: 615-862-4847; hal.balthrop@nashville.gov

Texas



- Activates through “utility to utility”, “utility to TXWARN” or “state to TXWARN” contact via a phone call or email
- The Steering Committee is comprised of member utility representatives and trained volunteer ‘event managers’
- Represented at the state Emergency Operations Center physically or through state partner agencies
- Has an online resource database
- Maintains a relationship with the Texas Commission on Environmental Quality, Texas Division of Emergency Management and many other water and wastewater associations in the state
- Holds workshops to introduce utility personnel and Regional EOC staff to TXWARN operation and coordination
- Sponsors and delivers regular webcasts focused on water sector preparedness
- Maintains a video library of webcasts and training videos
- Held tabletop exercises on August 24, 2011 and July 31, 2015
- Has successfully activated during several incidents including, but not limited to, drought, tornadoes, wildfires and hurricanes
- Represented on the State Department of Homeland Security Private Sector Advisory Council
- Launching a new website at the end of 2015

TXWARN Stats

- Formed in 2006
- 1,250 members
- Includes public and private utility members, and local and county Emergency Coordinators
- 78% population covered
- www.txwarn.org
- Has an operational plan
- TXWARN has activated

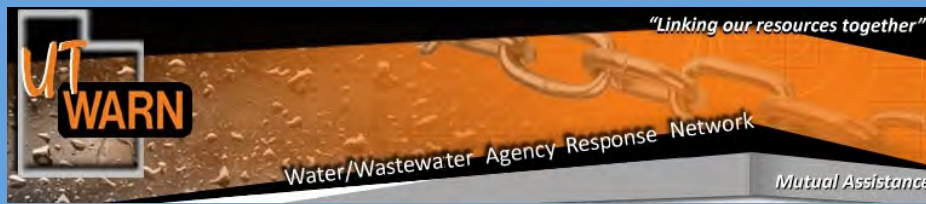


Photo: Hurricane Ike

WARN Chair: Richard Talley, Fort Worth Water Department

Contact info: 866-989-9276; info@txwarn.org

Utah



UTWARN Stats

- Formed in 2008
- 90 utility members
- Includes public and private utility members
- 51% population covered
- www.utwarn.org
- Has an operational plan
- UTWARN has activated

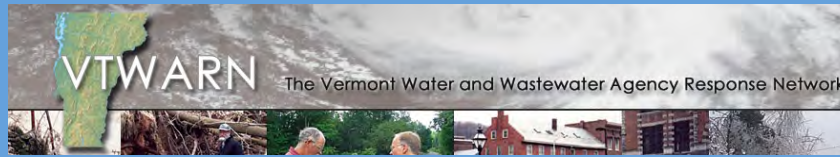
- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- Provides statewide credentialing
- The Steering Committee is comprised of member utility and Rural Water Association of Utah representatives
- Represented at the state Emergency Operations Center through the Utah Department of Environmental Quality
- Holds annual meetings
- Has activated five times for regional fires and flooding incidents



Photo: 2009 Gunlock, Utah

WARN Chair: Dale Pierson, Rural Water Association of Utah
Contact info: 801-756-5123; dale.pierson@rwau.net

Vermont



VTWARN Stats

- Formed in 2008
- 48 utility members
- Includes public and private utility members
- 45% population covered
- www.vtwarn.org
- Has an operational plan
- VTWARN has provided assistance



Photo: August 2011 Hurricane Irene

- Coordinates through “utility to utility” contact via a phone call or email
- Maintains an online resource database and contact information for all members
- In addition to member utilities, the Steering Committee includes representatives from the Vermont Department of Health, Water Supply Division, Vermont Rural Water Association, Rural Communities Assistance Partnership and Emergency Management
- Represented at the state Emergency Operations Center through state partner agencies
- Organized into four districts, each with a regional representative

WARN Chair: Vacant

Virginia

- Activates through “utility to utility” contact via a phone call or email
- Maintains an online resource database
- In addition to member utilities, the Steering Committee includes representatives from the Virginia Departments of Health, Emergency Management, and Environmental Quality
- Represented at the state Emergency Operations Center through state partner agencies
- Collaborates with the Virginia Rural Water Association
- Held a seminar and tabletop exercise on November 12, 2014
- New website being pursued

VA WARN Stats

- Formed in 2008
- 43 utility members
- Includes public and private utility members
- 45% population covered
- www.vawarn.org
- Developing operational procedures
- VA WARN has activated

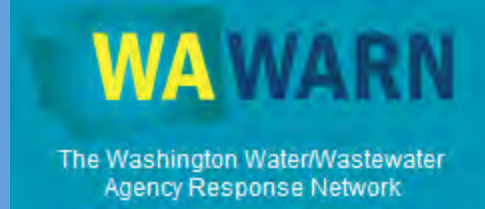


Photo: June 2012 Derecho

WARN Chair: Patrick Lewis, American Water

Contact info: 571-399-8088; patrick.lewis@amwater.com

Washington



WAWARN Stats

- Formed in 2008
- 79 utility members
- Includes public and private utility members
- 70% population covered
- www.wawarn.org
- Has an operational plan
- WAWARN has activated

- Activates through “utility to utility” contact via a phone call, email or requests through the website
- Organized into four regions, each with a chair and vice chair
- Debuted a new website in February 2013
- The statewide and regional committees are comprised of member utility representatives
- Developing a relationship with the Washington State Department of Health and many county, state and federal emergency management agencies
- Represented at the state Emergency Operations Center through state partner agencies
- Receives support from several associate members, including Evergreen Rural Water of Washington and the Pacific Northwest Section AWWA
- Held a workshop and tabletop exercise on September 27, 2011
- Has set several Improvement Planning goals
 - Organizing member utility resources
 - Recruiting more utility members and associate members
 - Increasing coordination with emergency management
 - Having regional and statewide meetings



WARN Chair: Dave Brown, City of Yakima

Contact info: 509-575-6204; david.brown@yakimawa.gov

West Virginia



WV WARN

West Virginia's Water/Wastewater
Agency Response Network.

- Coordinates through “utility to utility” contact via a phone call or email
- Maintains an online “tool bucket”
- In addition to member utilities, the Steering Committee includes representatives from the West Virginia Bureau of Public Health (BPH), Rural Water Association, Section AWWA, Rural Community Assistance Program and the Public Service Commission
- Represented at the state Emergency Operations Center through the West Virginia BPH
- Held a workshop and tabletop exercise on August 9, 2013 and on October 14-15, 2014
- Successful activations include the June 2012 derecho and October 2012 Superstorm Sandy
- Improvement Planning goals include:
 - Increasing the number of member utilities
 - Strengthening the relationship with WVWARN response partners

WARN Chair: Martin Hess, Gilmer County Public Service District

Contact info: 304-904-8786; ff614@shentel.net

WARN Vice-Chair: Tom Landis, City of Buckhannon

Contact Info: 304-472-2530; tom.landis@buckhannonwv.org

WVWARN Stats

- Formed in 2008
- 91 utility members
- Includes public and private utility members
- 50% population covered
- www.wvwarn.org
- Has an operational plan
- WVWARN has activated

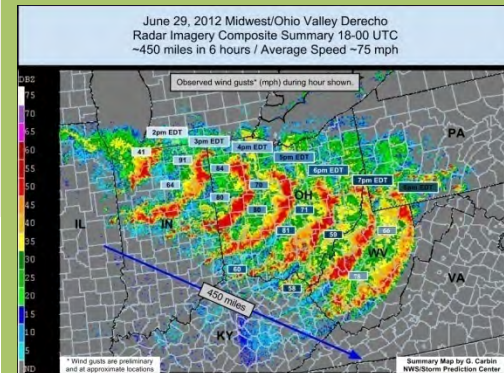


Photo: 2012 Derecho

Wisconsin



*A Voluntary Mutual Aid Response Network
for Wisconsin Water, and Wastewater Agencies.*

WisWARN Stats

- Formed in 2008
- 40 utility members
- Includes public and private utility members
- 53% population covered
- www.wiswarn.org
- Developing an operational plan
- WisWARN has not activated



Photo: 2008 Flooding – City of Reedsburg

- Activates through “utility to utility” contact via a phone call or email
- Organized into six regions
- Has an online resource database
- The Steering Committee is comprised of member utility representatives
- Has a relationship with the Wisconsin Department of Natural Resources (DNR), as well as several water and wastewater associations in the state
- Represented at the state Emergency Operations Center through the Wisconsin DNR
- Held a workshop and tabletop exercise on September 7-8, 2011
- Has the following goals for the future
 - Develop their relationship with all levels of emergency management
 - Recruit more members
 - Develop a WisWARN operational plan

WARN Contacts:

Joel Lemke, City of Stevens Point
Contact info: 715-345-5266;
jlemke@stevenspoint.com

Mike Kosterman, City of Racine
Contact info: 262-636-9181;
mike.kosterman@cityofracine.org

Wyoming



WYOWARN Stats

- Formed in 2007
- 19 utility members
- Includes public and private utility members
- 40% population covered
- www.wyowarn.org
- Has an operational plan
- WYOWARN has activated



Photo: 2015 Lusk, Wyoming Flooding

- Activates through “utility to utility” contact via a phone call or email
- Maintains a spreadsheet of response capabilities
- The Steering Committee is comprised of member utility representatives
- Receives support from Wyoming Association of Rural Water Systems
- Represented at the state Emergency Operations Center through the Wyoming Department of Homeland Security and Department of Environmental Quality
- Organized into seven regions that match state response teams; each region has a Regional Coordinator
- Recently updated website
- Holds annual meetings and sponsors training events

WARN Chair: Diane Monahan, City of Gillette

Contact info: 307-686-5276; dianem@gillettewy.gov