

# 2015 Annual Report



Utah Department of Public Safety

DIVISION OF EMERGENCY MANAGEMENT



*“Preparation through education is less costly than learning through tragedy.”*

*~ Max Mayfield, National Hurricane Center*



Photo Credit: Deseret News

Dear Stakeholders,

There is only one way to get through a year like 2015 -- together. Our partnerships at the local, state, and federal levels once again have proven to be crucial in our ability to effectively respond and recover from disasters. For example, we had an environmental emergency in the summer, fatal floods in the fall, and an El Niño winter, and we truly appreciate our partnerships throughout the year.

When devastating floods ripped through Southern Utah we were all stunned. The flooding led to fatalities in Hildale, Zion National Park, and outside of Hurricane. Through the tragedy of these events, we mourn with the affected communities and families.

We also praise the work of first responders and search teams who rescued three boys from Short Creek and recovered many of the missing. There were others who deployed to assist in the extensive search effort in the aftermath of that storm; and we thank them for their partnership in response. The professional manner displayed by all who responded reinforces the idea that our communities look to emergency management agencies as being knowledgeable in what we are doing. We continue to learn lessons every time we respond. Those lessons help us improve for the next response, especially when we share what we have learned.

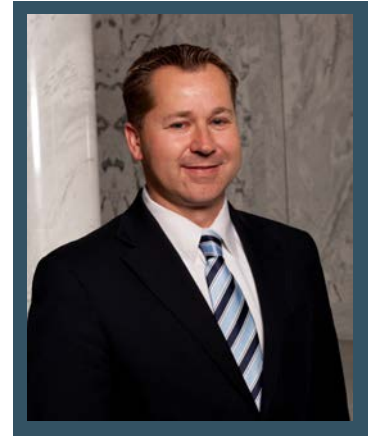
This is one of the reasons we created the Utah Certified Emergency Manager (UCEM) and Associate Emergency Manager (UAEM) programs in 2015. The certifications help to recognize when emergency managers are contributing to our discipline, and have demonstrated a defined level of professionalism. Emergency Management in Utah now has a certification program that recognizes achievements, expertise, leadership and a commitment to training and personal improvement, something in common with most other professions. I'm proud of our Utah CEM and AEM certification programs. They are jointly sponsored by the Division of Emergency Management (DEM) and the Utah Emergency Management Association (UEMA) and are the first state programs authorized by the International Association of Emergency Managers. It was an honor to recognize twenty-one emergency managers with these certifications during 2015.

We salute all of you who are making a difference in your communities and throughout the emergency management discipline. We look forward to continued partnerships in 2016.

Sincerely,



Kris J. Hamlet  
Director, DEM





UTAH DEPARTMENT  
OF PUBLIC SAFETY

DIVISION OF  
EMERGENCY MANAGEMENT

**Our Vision**

To achieve a self-sustaining culture of emergency preparedness for all individuals and communities in Utah.

**Our Mission**

To unite the emergency management community and to coordinate efforts necessary to mitigate, prepare for, respond to and recover from emergencies, disasters and catastrophic events.



Utah is **one of 33 EMAP accredited states**. EMAP provides credible standards on which a program can build a strong foundation. Utah became accredited in 2007 and gained re-accreditation in 2012. Mini-assessments of each of the EMAP standards have been held throughout 2015 to work toward re-accreditation scheduled for 2017.



NOAA's Weather Ready Nation Ambassador program recognizes partners who are **improving the nation's readiness, responsiveness, and overall resilience** against extreme weather, water, and climate events. Utah received designation as a Weather Ready Nation Ambassador in 2015.



**Utah is # 1  
in the nation**

for per capita participation in



**962,305**

Shook it for the  
ShakeOut!

Highest number of  
registered participants  
with 32% of Utah's  
population



# State Appropriated Funds



Funds from the State Disaster Recovery Restricted Account (53-2a-603) reimbursed to state agencies and agents of the state:

- ~ Gold King Mine Spill - \$423K for response and recovery efforts from a release of toxic waste into Utah's waterways
- ~ Hildale and Zion Flooding Incident - \$338K for response and recovery efforts from flash flooding

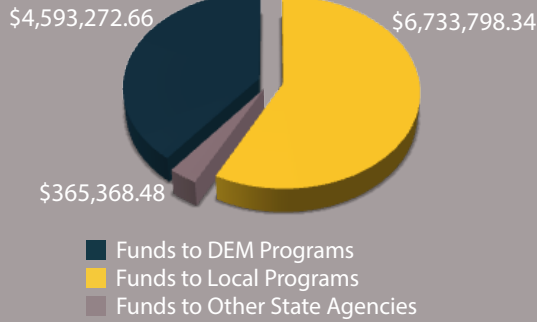
Funding from the legislature benefits Utah's preparedness, response, and recovery efforts by:

- ~ \$1.3 million to fund salaries, daily operations and matching obligations of federal dollars
- ~ \$650K to maintain the capability of interoperable communications through Omnilink
- ~ \$110K to fund the position of the Statewide Interoperability Coordinator

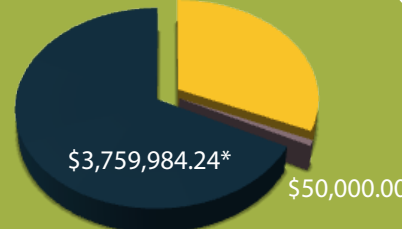
# Federal Appropriated Funds



Total Federal Dollars Expended

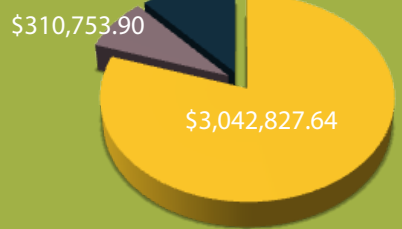


Emergency Management Performance Grant



\*\$1,119,017.72 retained by DEM was utilized for planning, training, and exercises supporting local emergency management

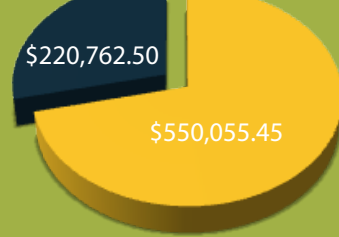
Homeland Security Grant



Mitigation Grants



Cooperating Technical Partners



\*Floodplain Mapping

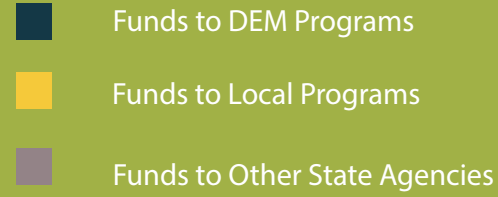
## How do federal dollars benefit Utah?

- ~ Ensures Utah tax payer dollars come back to the state and are spent on Utah needs
- ~ Augments first responder capabilities at the local level through planning, training, and equipment
- ~ Increases Utah's preparedness at the government, community, individual/family, and business level



## Capabilities and resources enhanced this year through Preparedness Grants:

- ~ Sustainment of the Utah Bomb Squad Task Force which allows seven FBI approved teams to plan, train, and maintain uniformity across the state
- ~ Creation of the State Urban Search and Rescue committee to coordinate uniform training, response, and recovery within the state
- ~ Refurbishment of the State Communications Van to respond to and support incidents with interoperable communications



## Executive Leadership

Governor Gary R. Herbert

Lieutenant Governor Spencer J. Cox

Department of Public Safety Commissioner Keith D. Squires



## Administration

Kris Hamlet, Director

Judy Watanabe, Deputy Director

Jona Whitesides, Preparedness Bureau Chief

Patrick Reid, Response and Recovery Bureau Chief

Joe Dougherty, Public Information Officer

Jerrienne Kolby, Special Projects Coordinator

Amisha Lester, Special Projects Coordinator

Merri Coleman, Executive Assistant



## Operations Section

Bob Carey, Section Manager

Sheila Curtis, Planner

Josh Groeneveld, GIS Planner

John Crofts, Planner

Bob Craven, Communications Support

## Community Support Section

Kim Hammer, Section Manager

Kimberly Giles, Northern Region 1

Tara Behunin, Wasatch Front Region 2

Jeff Gallacher, Central Utah Region 3

Scott Alvord, Southwest Utah Region 4

Mechelle Miller, Northeast Region 5

Angelia Crowther, Castle Country & Four Corners Regions 6 & 7

## Planning Section

Susan Thomas, Section Manager

Tracy Bodily, Planner

Mark Coon, Planner

Pat Bersie, Planner

## Be Ready Utah Section

Wade Mathews, Section Manager

Maralin Hoff, Trainer

Jeff Johnson, Be Ready Schools Coordinator

Ken Kraudy, Community Outreach Specialist

James Ray, Citizen Corps Coordinator

Patrice Thomas, Planner

## Logistics Section

Dave Popelmayer, Section Manager

Rey Thompson, IM/Trainer

Lorry Herrera, Planner

Kurt Tracy, WebEOC

## Training & Exercise Section

Kris Repp, Section Manager

Ted Woolley, State Training Officer

Kevin Holman, Exercise Officer

Don Cobb, Exercise Officer

Karen Madsen, Planner

Alden Orme, Trainer

## Finance Section

Matt Ferguson, Section Manager

Denise Spillman, Financial Analyst

Anna Boynton, Financial Analyst

Iris Rich, Financial Analyst

Samantha Falde, Financial Analyst

Tanner Patterson, Financial Analyst

Judy Ainsworth, Front Desk Support

Angelica Ouyang, Intern



## Utah Public-Private Partnership (UP3) Section

Matt Beaudry, Section Manager

Logan Sisam, Be Ready Business Program Manager

Kathy McMullin, Research Analyst

Mark Lemery, Critical Infrastructure Protection Coordinator

Ralph Ley, DHS PSA

## Mitigation & Recovery Section

Brad Bartholomew, Section Manager

Jake Unguren, Deputy State Hazard Mitigation/Recovery Officer

Eric Martineau, Mitigation Planner

Janna Wilkinson-Mayo, Mitigation Planner

Kathy Holder, State Floodplain Coordinator

Jamie Huff, Risk MAP Coordinator

Emily Esplin, Intern



**237**  
**ACTIVE PARTICIPANTS**

SERT Members  
Represent  
State Agencies



The SERT met monthly to sharpen its skills and build partnerships. In 2015, the SERT worked through disaster scenarios and participated in various mission activities, including coordinating the emergency support functions within the EOC with over 900 hours in training.

**900**  
**HOURS OF TRAINING**

**BACK**  
**TO THE BASICS**

**2015 CORE COMPETENCIES**

- WebEOC Know-How & Proficiency
- Strengthen Mission Capabilities
- Emergency Support Function Information Sharing
- Checklist Refinement
- Real World Incident Participation Activations



**ACTIVATIONS**

- Navajo Severe Winter Weather
- Wildland Fires
- Gold King Mine Spill
- Hildale & Zion Flooding

# PLANNING

\$272,054 reimbursed to 23 counties participating in the Search and Rescue Financial Assistance Program



**Shake Out**

962,305 Registered

Over 120 individuals participated in tabletop exercise

# OPERATIONS

2 trips to Morocco with UFA, UDOH & UTNG to train on SAR operations

The State EOC activated 4 times

35 Weekly Briefings and 31 Situation Reports Created

17 departments and 48 divisions collaborated to update 17 Annexes within the State EOP

# LOGISTICS

DEM and NWS utilized 4 mobile weather stations on current burn scars to monitor potential debris flows

Grants Management Board Created in WebEOC

# MITIGATION & RECOVERY

3 EMAC deployments to support Colorado flood recovery

2,108 students trained

93 courses taught including All Hazards Incident Management Team Academy

## EXERCISE

22 disaster scenario exercises supported across the state

11 communities participate in the NFIP Community Rating System

The DEM UAV was flown 9 times in 2015, including a deployment to the Hildale flood

212 Utah communities participating in NFIP





2 UGS mapping projects funded by HMGP were completed using the newly acquired LIDAR data



State Conferences

Public Safety Summit  
419 attendees

Preparedness Expo  
3000 attendees

CCDCs  
170 attendees

UFSMA Conference  
115 attendees

ARES/RACES  
129 attendees

Public Information Officer  
Conference 179 attendees

12 DEM staff received FFSL red cards

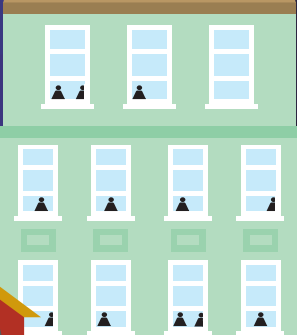
904 Wildfires  
8,868 Acres Burned



Visitors from Morocco, Kazakhstan, and India attended meetings at the EOC



20,000 attended over 130 Be Ready Utah Booths/Fairs



2,252 ARES/RACES volunteers available to provide radio communications

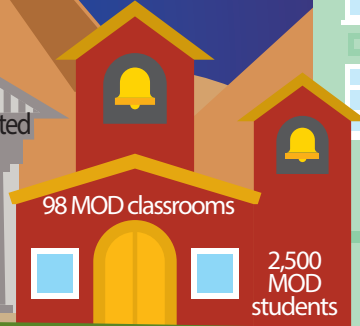
70 DEM employee interviews with 24 media outlets during 2015



80 Utah companies trained in disaster resilience



90 State Agency COOP plans updated to keep our state running

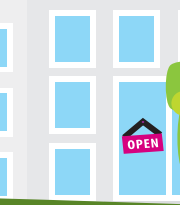


98 MOD classrooms

2,500 MOD students

Be Ready Utah trained 16 municipalities at 2 Spontaneous Volunteer Management courses hosted by UServeUtah

UP3 engaged 1,000+ Private Sector Partners



24 PSPC meetings strategically held throughout the state

HUD NDRC Grant of \$41 million requested for Weber River



84 Responses/Notifications by Liaisons to disaster or HazMat related events

Liaisons attended 150 LEPCs 771 + meetings and supported 96 DEM events



99,550 Miles traveled statewide by Liaisons



Over \$975,000 in federal grants were acquired for Risk MAP Cooperating Technical Partners Floodplain Mapping Projects



6 Mobile Command Vehicle Deployments

■ **Professionalism of Emergency Management** - The Utah Division of Emergency Management (DEM) and the Utah Emergency Management Association (UEMA) serve as co-sponsoring organizations for the new Utah Emergency Management Professional Certification Program. This program offers a meaningful opportunity for those who value the **professional aspects of the emergency management discipline** and seek a defined level of status for their commitment and contributions to this field of expertise. This program is strictly voluntary and is not intended to become a legislative or grant requirement. There are two levels of certification, the Utah Associate Emergency Manager certification, intended for those who work within emergency management but are typically serving in a support role; and the Utah Certified Emergency Manager certification intended to be the highest level of state certification for emergency managers within the State Utah who typically will have several years of experience and have made numerous contributions to the discipline.

■ **Continuity of Operations Plans (COOP)** - Nearly 100 state agencies exercised and updated their Continuity of Operations Plan. **A statewide COOP exercise hosted by DEM and FEMA**, involving Department Directors and COOP Planners, was held on May 20, 2015. Over 100 participants attended. The plans contain information regarding alternate locations, duties that are highest in priority, resources and data.

■ **Awards and Unit Citations** - Matt Beaudry - Public Safety Medal of Excellence; Bob Carey - Distinguished Service & 25 Years of Service Recognition; Joseph Dougherty - Public Safety Medal of Excellence; Josh Groeneveld - Public Safety Medal of Excellence; Kevin Holman - Public Safety Medal of Excellence; Jona Whitesides - Public Safety Medal of Excellence; Denise Spillman - 25 Years of Service Recognition; Ralph Ley - Executive Award of Merit

■ **Utah VOST 1** - In partnership with Salt Lake County, we created the state's first Virtual Operations Support Team, or VOST, which is a team of digital volunteers who can help amplify social media messages in an emergency. VOSTs have been activated in other states to monitor what messages are coming from social media and then provide a report to incident commanders or Public Information Officers (PIO) at the scene so they have an accurate idea of the public's perception about incident response. So far, **more than a dozen people have signed up to lend their social media expertise**. We will be continually looking for volunteers across the emergency management and public information community who are interested in supporting fellow responding agencies during incidents. Expect to hear more about Utah VOST 1 in 2016.

■ **State Disaster Recovery Restricted Account (53-2a-603)** - The State Disaster Recovery Restricted Account was sponsored by Representative Curt Oda in 2007. The account functions as a funding mechanism for state agencies that support local, state, or federally declared emergencies or events. The balance of the account on July 1st, 2015, the beginning of the state fiscal year, was \$20,491,267. Since that time **this account has served its intended purpose in assisting local communities through state agencies** to the amount of \$761,000 through the Gold King Mine Disaster and the Hildale Flooding Incident. This account is administered by the Division of Emergency Management with oversight by the Division of Finance.

**21** Utah Certified & Associate Emergency Managers in 2015


**90** COOP Updates  
 State Agencies Exercised Plans Together May 20th



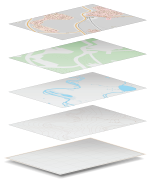
Over 12 Initial VOST Members



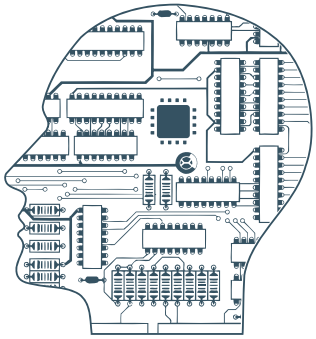
State Disaster Recovery Restricted Account



34



Maps Created



Cyber Exercise and Planning

5th Annual Preparedness Expo



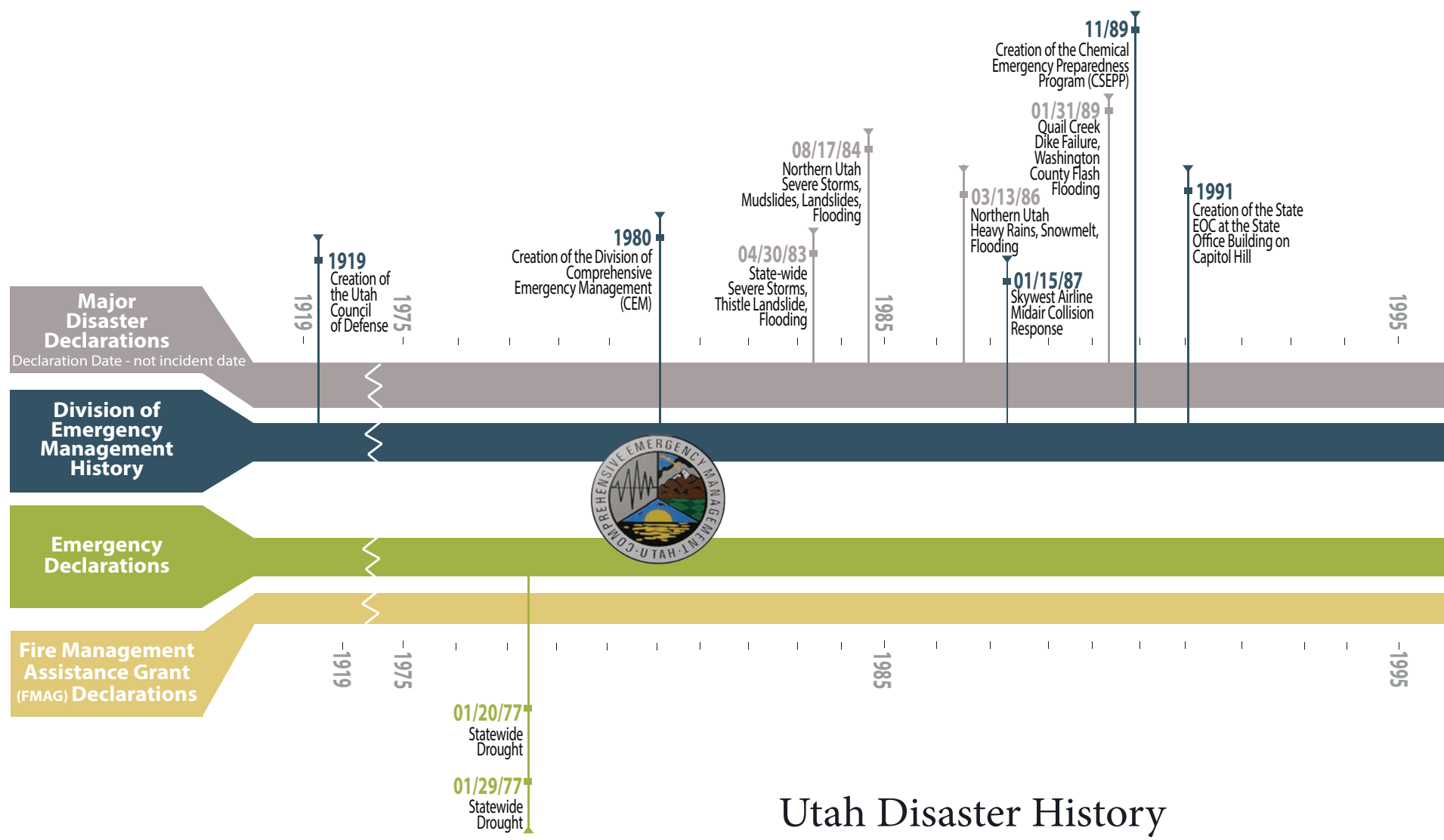
Whole Community Infrastructure Resiliency Private Sector Inaugural Year



- **Geographic Information System (GIS)** - GIS has enhanced situational awareness during an emergency by visualizing relationships of incident locations through mapping. In 2015, over 34 maps were created to enhance the Division’s situation reports. GIS provided additional support to other sections within DEM as well as other divisions within the Department of Public Safety. **Two major projects were completed in 2015.** First, GIS was instrumental in producing maps and HAZUS data of a scenario for a magnitude 7.0 earthquake on the Wasatch Fault-Salt Lake City segment, produced by the Earthquake Engineering Research Institute (EERI), Utah Chapter. The second completed project was GIS specialist significant contribution to the Envision Utah Project, “Your Utah, Your Future”. Data provided by DEM GIS reflected varying levels of preparedness based on the cost of mitigation programs. GIS is also in the process of developing a HAZUS Map Automation Tool which will automate the creation of HAZUS-based maps that would result in a more timely delivery as well as provide cost savings over a three year period.
- **Cyber Planning** - DEM launched efforts to build a cyber incident response planning team which **created a draft Cyber Response Plan and led two exercises** to help the State of Utah better respond to cyber incidents. A brief overview of the Department of Technology Services (DTS) Cyber Plan was given, followed by a tabletop exercise on September 22nd for DTS & state agencies and a Private Sector tabletop exercise on November 10th.
- **Be Ready Utah Outreach Efforts** - DEM’s Be Ready Utah preparedness brochures received a new look this year. A standardized, professional design was created and applied, and the content was updated on the older, existing brochures. The attractive, new Be Ready Utah materials are available at the DEM office and online at [BeReadyUtah.gov](http://BeReadyUtah.gov). Be Ready Utah also took the lead to plan and present, with several other partners, the 5th Annual Utah Prepare Conference and Expo. Nearly 3000 people attended this year’s Expo, which consisted of nearly 60 exhibitors, dozens of classes and an assortment of emergency vehicles. **This popular emergency preparedness show will become DEM’s premier annual public education event in the years to come.** Look for it in September 2016.
- **UP3** - created in 2015, the Utah Public-Private Partnership (**UP3**) **provides targeted resilience-building support to Utah’s businesses and directly connects emergency management with the private sector.**

  - Be Ready Business: Our outreach program facilitates ongoing preparedness training throughout the state.
  - Whole Community Infrastructure Resiliency Program (WCIRP): Identifies and prioritizes critical infrastructure throughout the state to benefit planning activities, including mitigation, response and recovery efforts in an incident.
  - The lifeline infrastructures planning group brings utility providers together to share and collaborate on resilience-building plans.
  - Business Emergency Coordination Center (BECC): A companion nerve center that augments the State Emergency Operations Center (SEOC) by connecting the private sector to emergency management in an operational way.

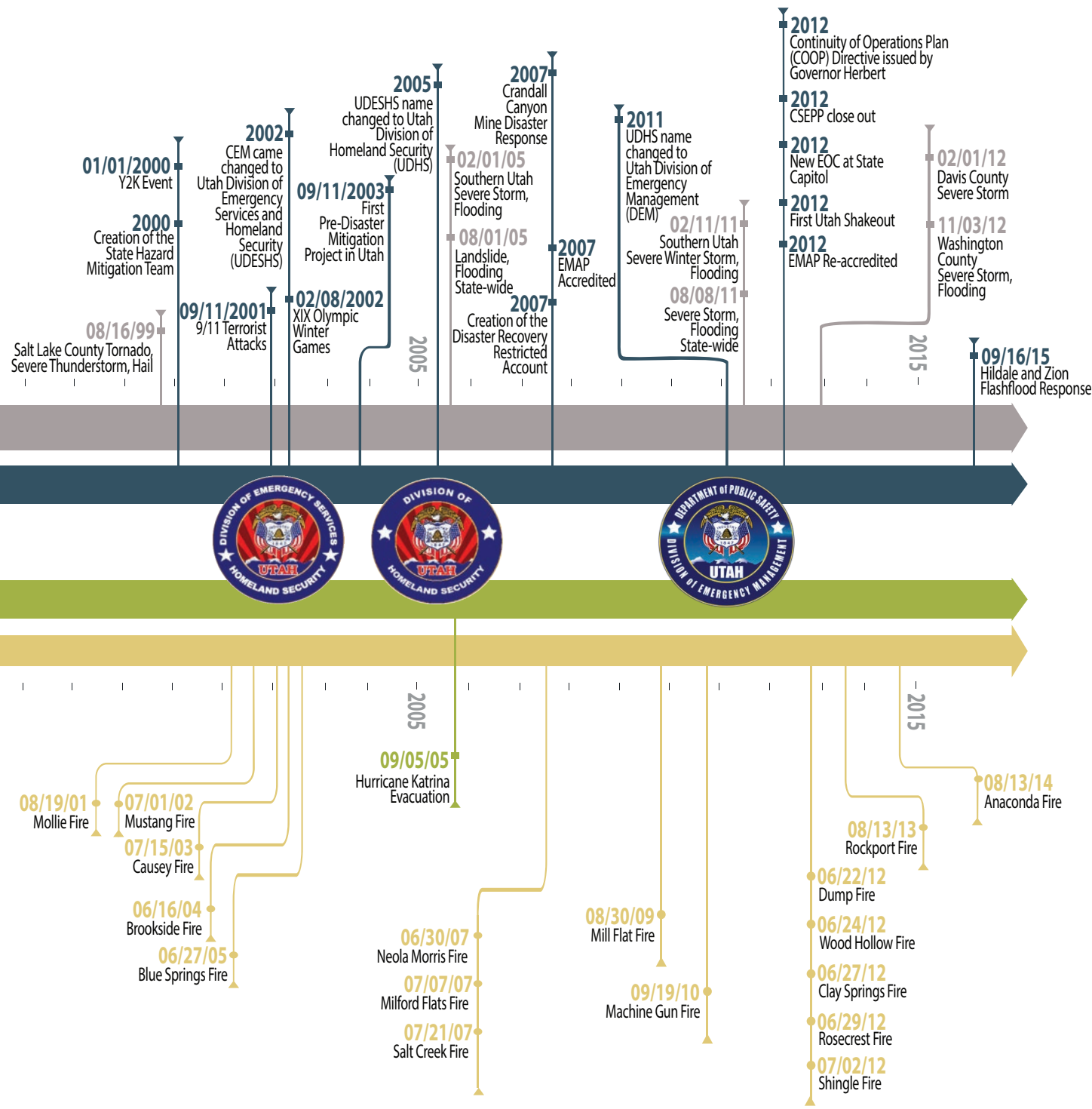




# Utah Disaster History and DEM throughout the Years

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## A Timeline



**1984** Flooding in Salt Lake City



**1999** Tornado in Salt Lake City

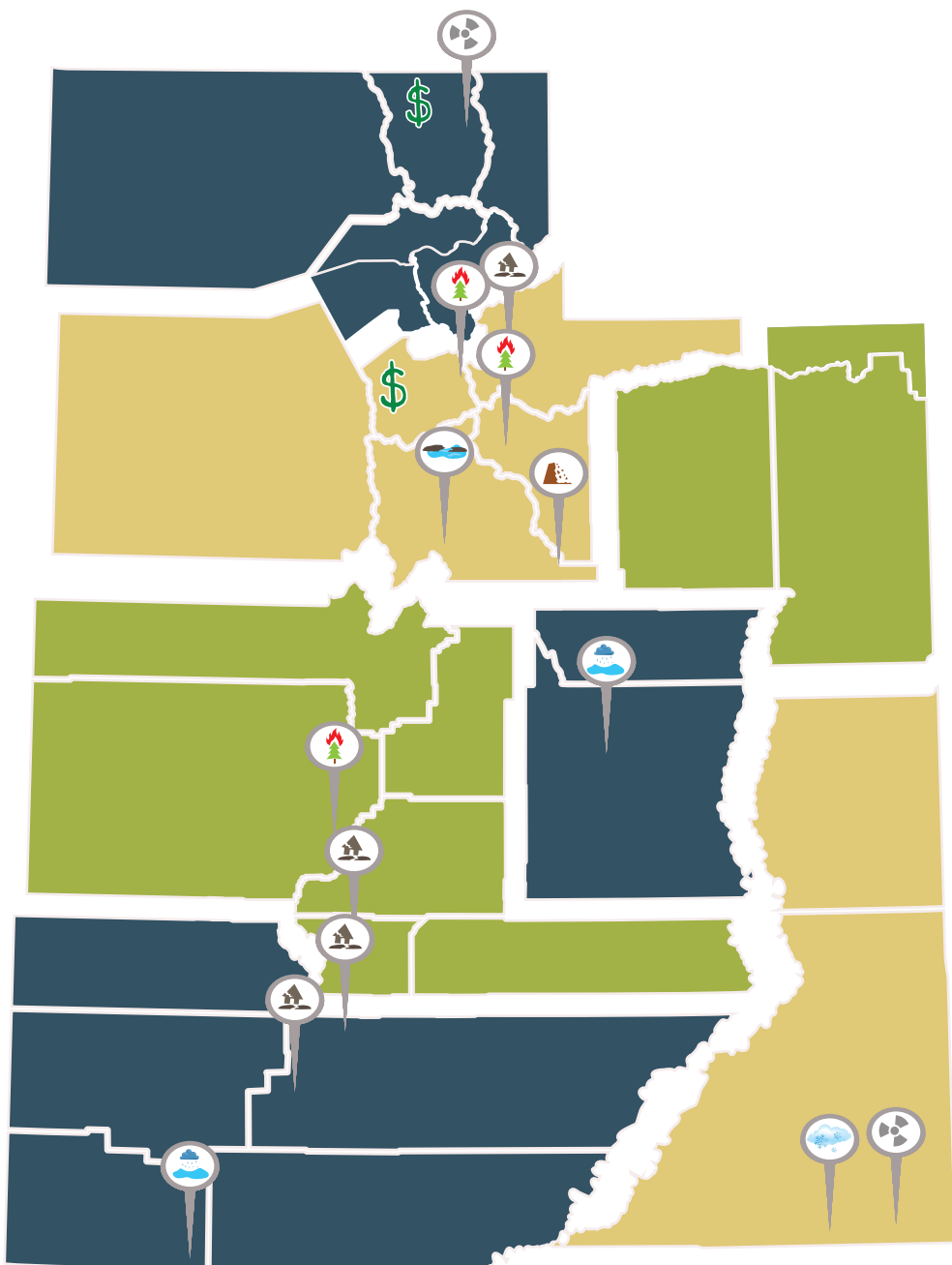


**2005** Flooding in Southern Utah



**2009** Fire in Southern Utah

# 2015 Disasters and Mitigation Projects



## FLOODS



- **September 14** Hildale & Zion Flooding
- **June 11** Flash Flooding in San Juan and Emery Counties

## CONTAMINATIONS



- **April 22** Nibley City Water Contamination
- **August 9** Gold King Mine Spill

## SNOW STORMS



- **February 26** Navajo Severe Winter Weather

## LANDSLIDES



- **August 13** Utah County Mudslide

## CANAL BREACH



- **August 25** Salem Canal Breach

## FIRES



- **September 7** Wheeler Fire ~ over 720 acres burned
- **July 4** Scipio Summit Wildfire ~ 184 acres burned

## EARTHQUAKES



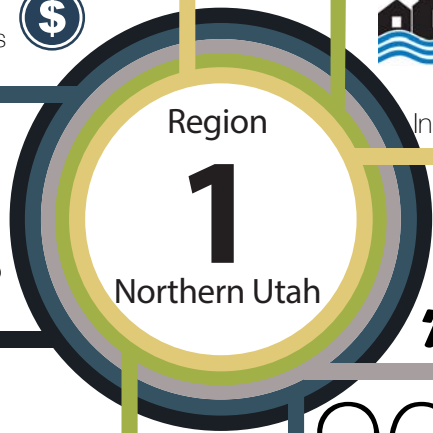
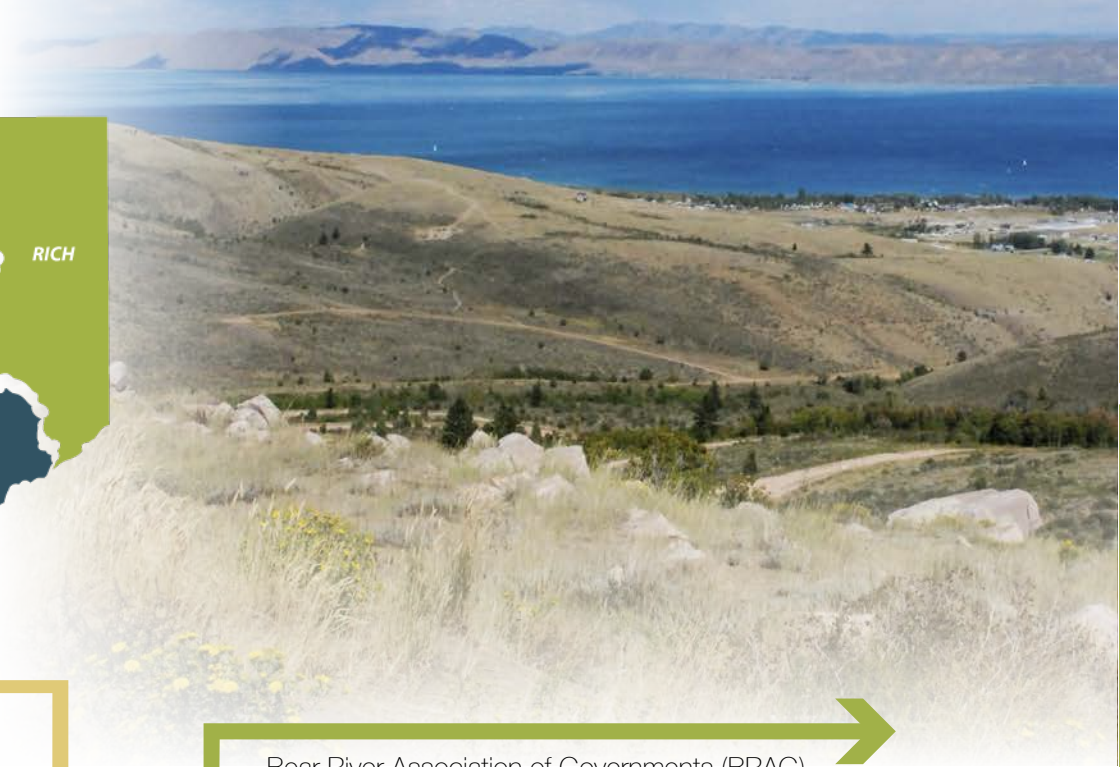
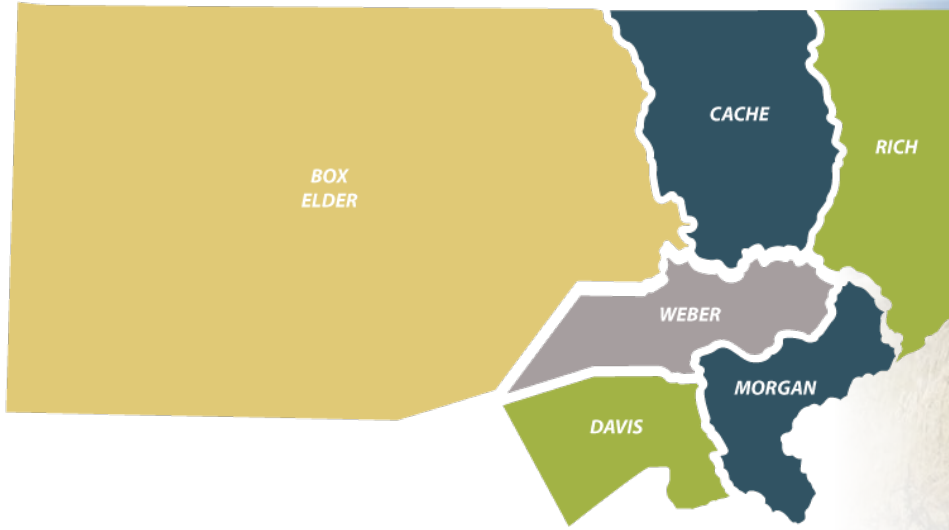
- Earthquake over 3.0 magnitude
- **July 4** Panguitch 4.1
- **Feb 18** Marysvale 3.2
- **May 31** Spry 3.2
- **May 9** Wanship 3.0

## MITIGATION PROJECTS



- Brigham City Culvert Project ~ Replaced 10 metal undersized culverts with cement box culverts to increase flow capacity by at least 250% ~ HMGP funded \$400,000 of the \$800,000.
- Murray School District ~ McMillan/Parkside Elementary schools Seismic Retrofit Project ~ PDM funded \$990,000 of the \$2 million.





\$28,750 awarded in EMPG Competitive Funds   
 awarded in Non-Disaster Funds \$1,046,577  
 \$137,301 awarded in Disaster Funds 

Bear River Association of Governments (BRAG) mitigation plan updated & FEMA approved  
 Weber County and 6 of its communities received an updated Flood Insurance Study and Flood Insurance Rate Maps  
 Communities participating in National Flood Insurance Program Community Rating System **6**

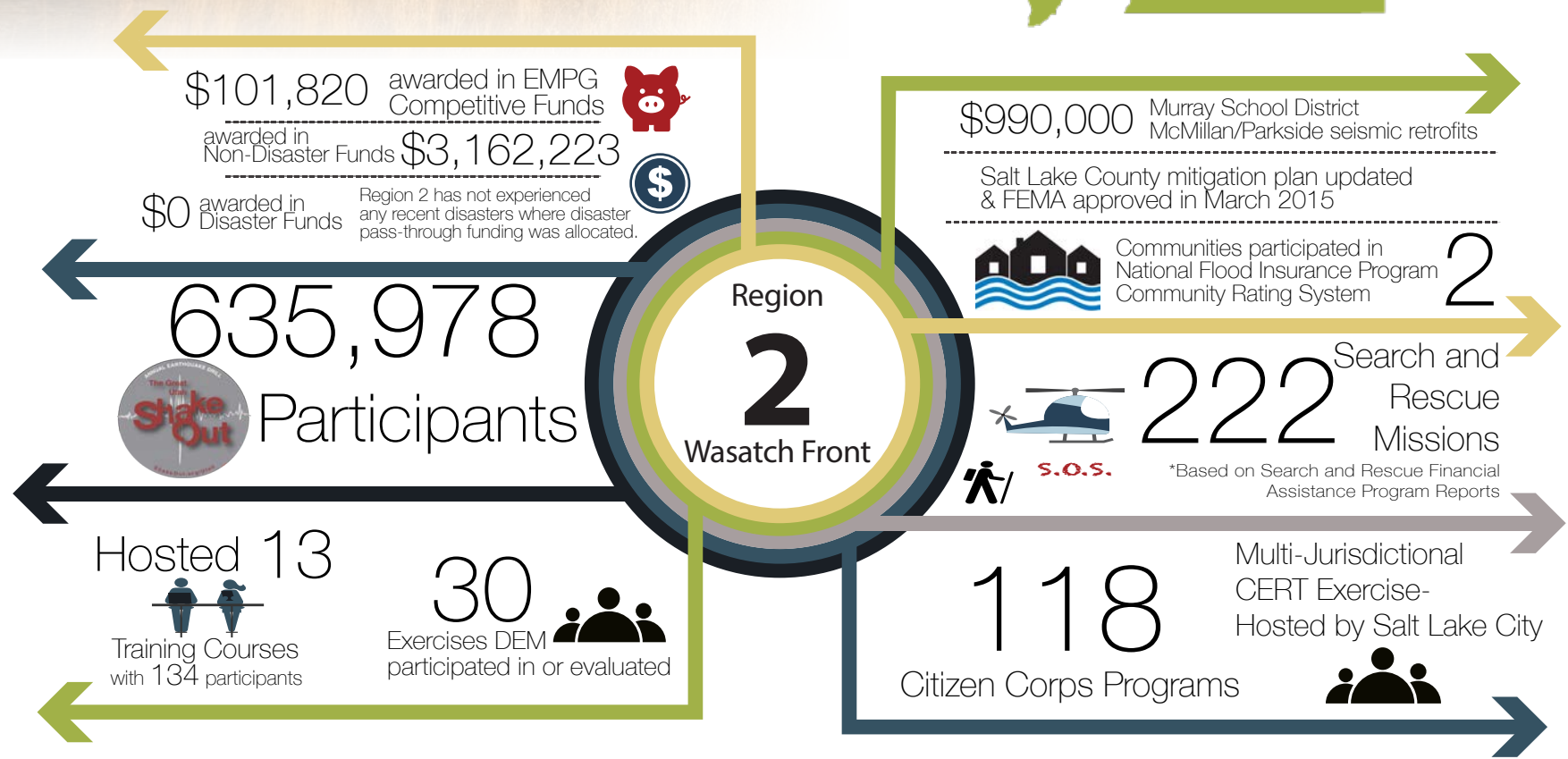
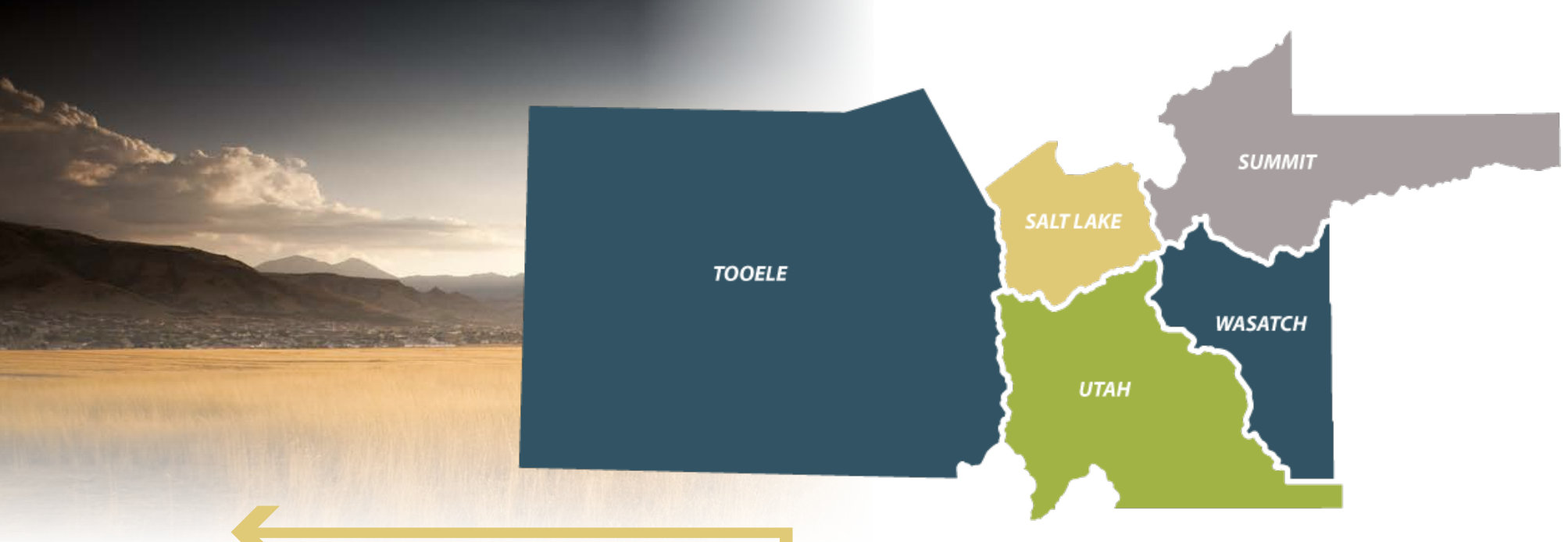
 **201,008** Participants

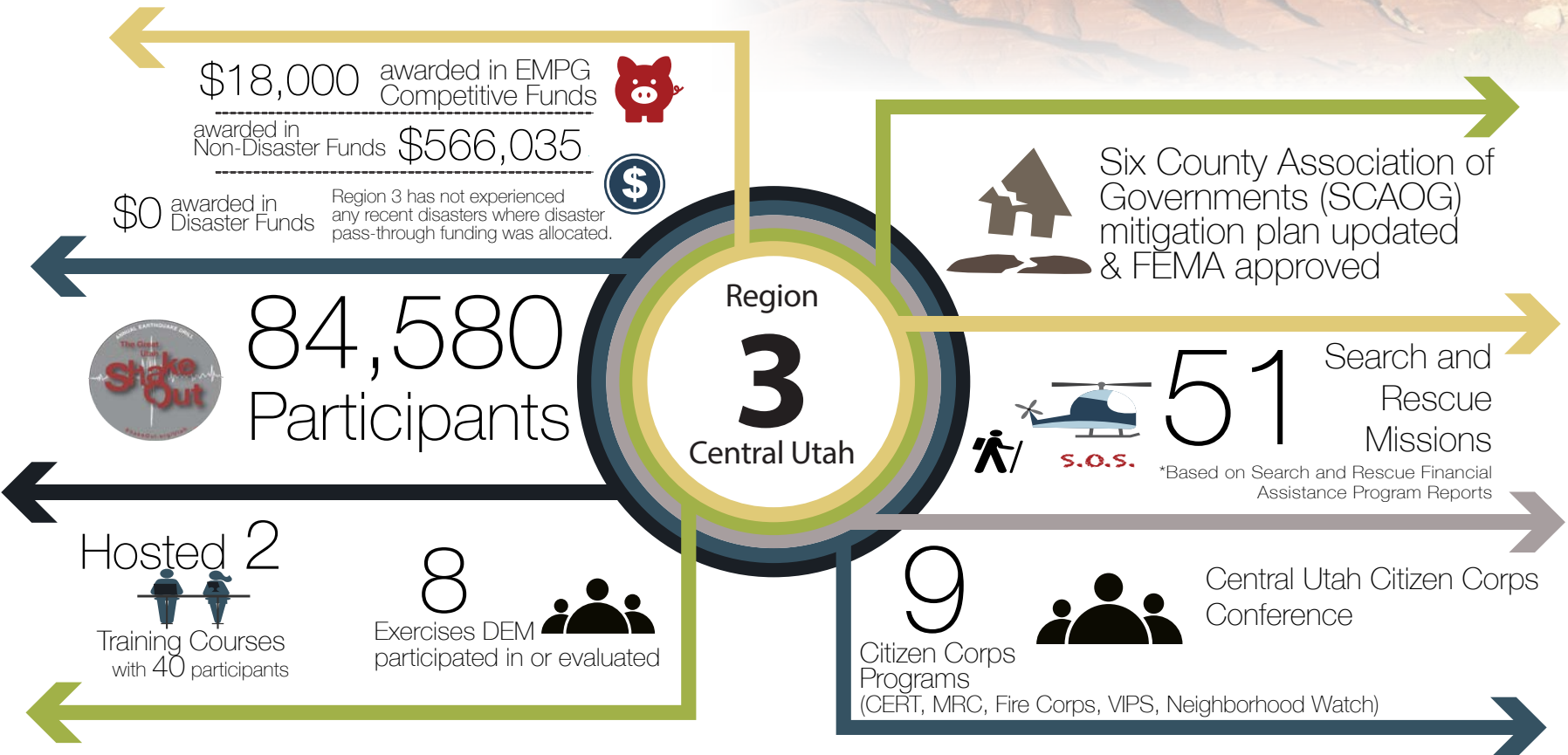
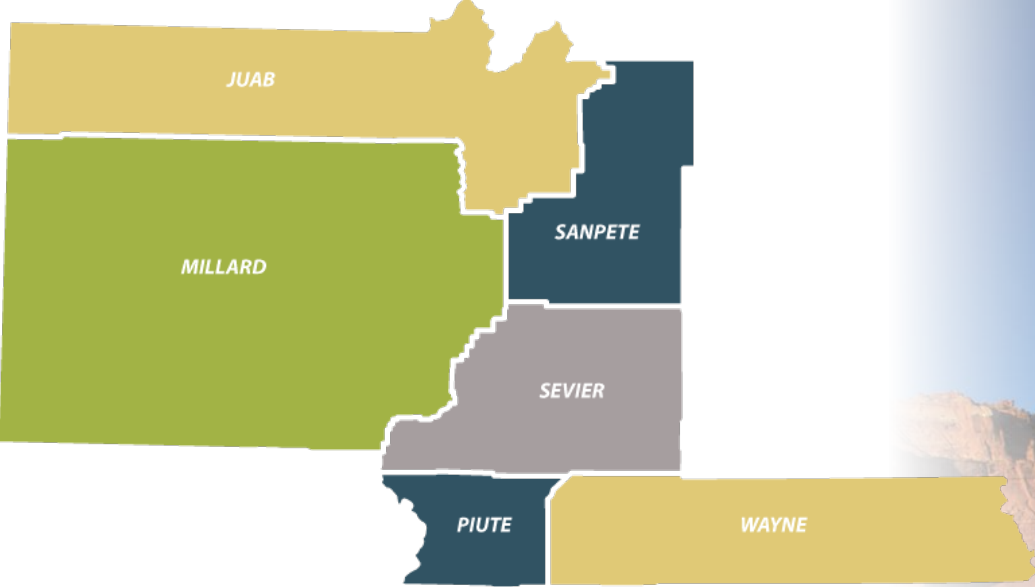
**79** Search and Rescue Missions  
 \*Based on Search and Rescue Financial Assistance Program Reports

Hosted **3** Training Courses with **61** participants

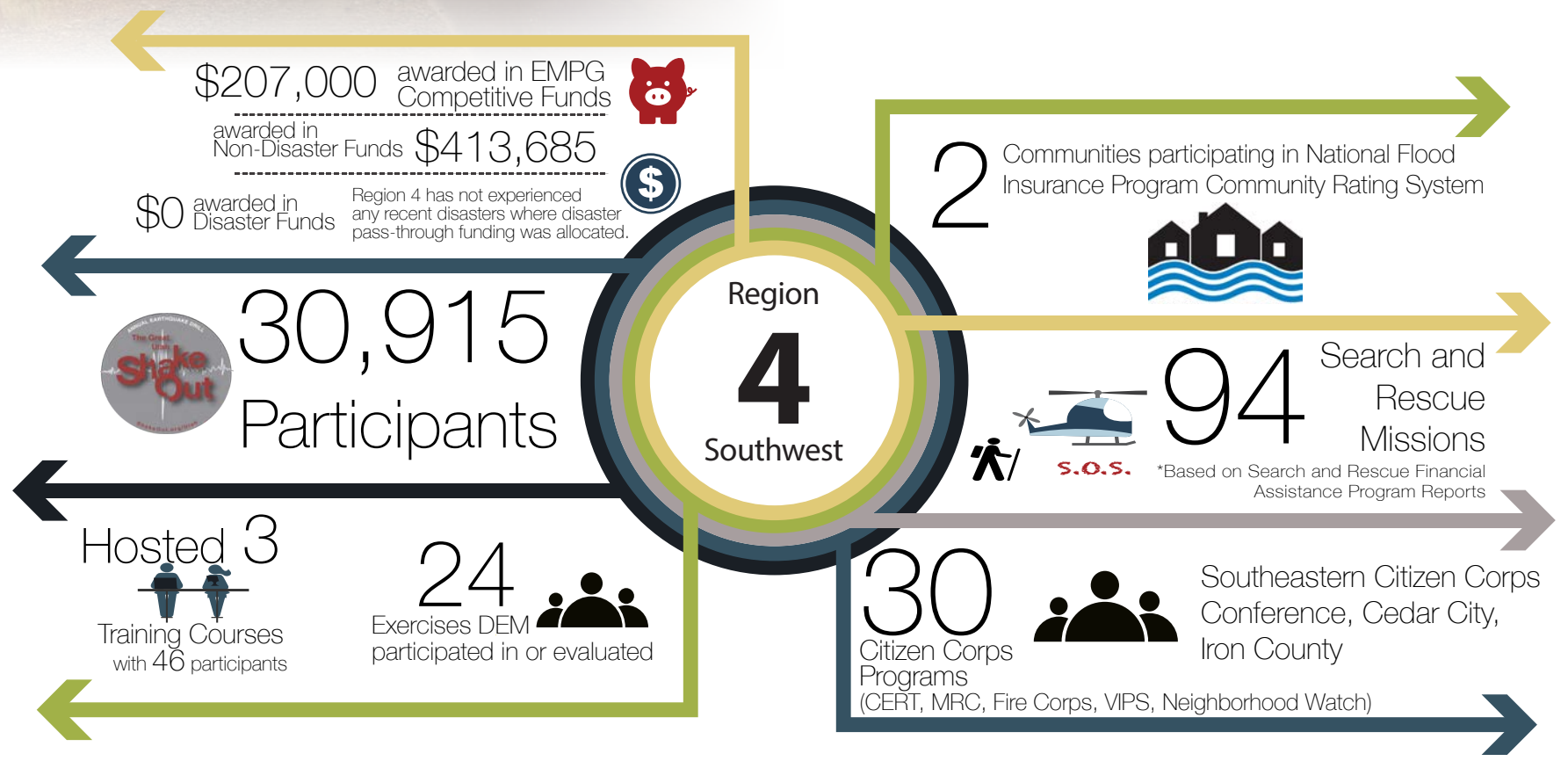
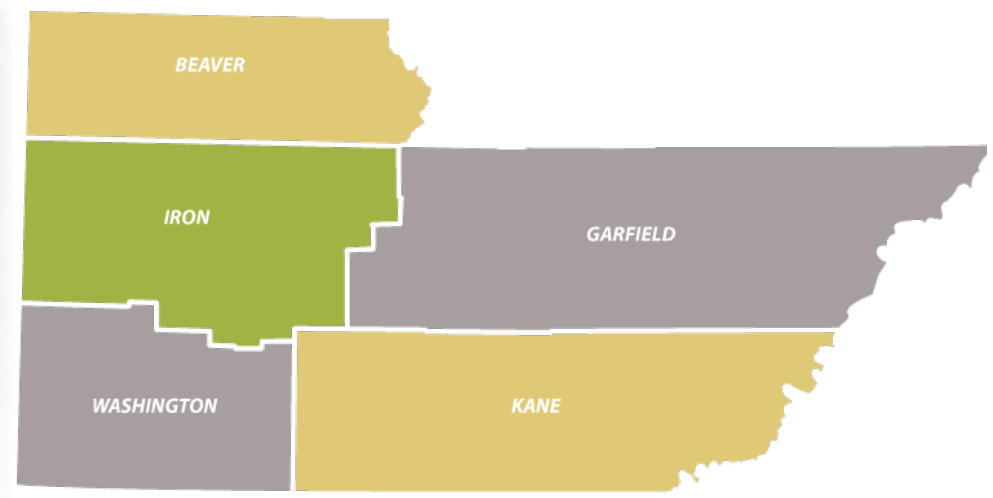
**20** Exercises DEM participated in or evaluated 

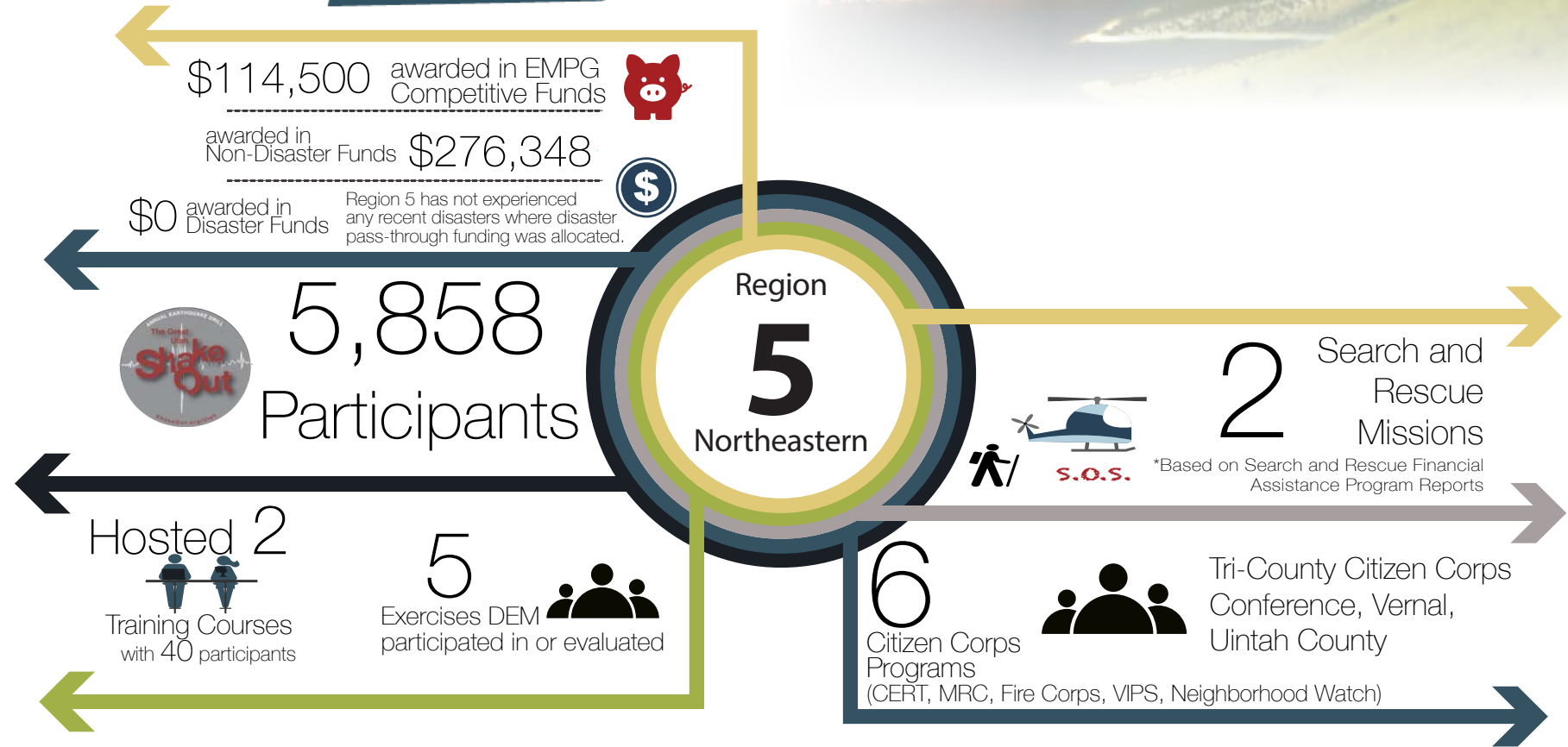
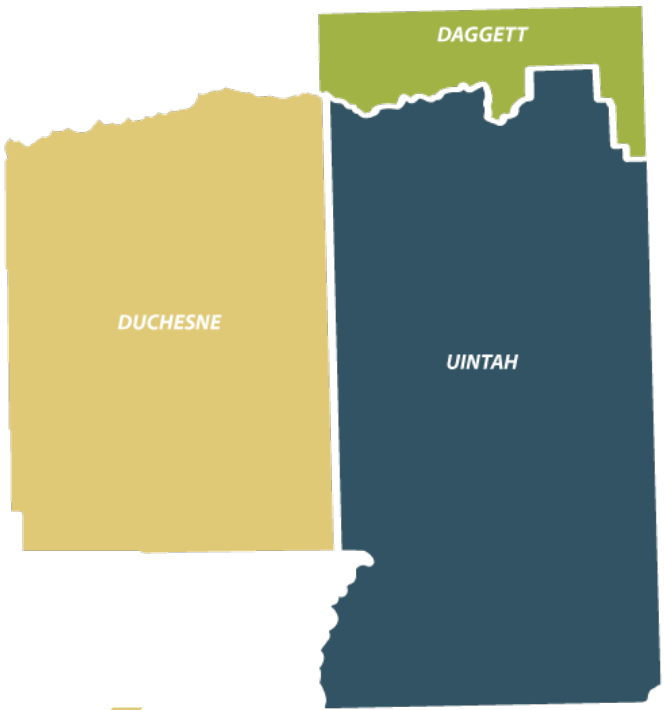
**90** Citizen Corps Programs (CERT, MRC, Fire Corps, VIPS, Neighborhood Watch)  
 Northern Region CERT/MRC Conference, Ogden Weber Applied Tech College

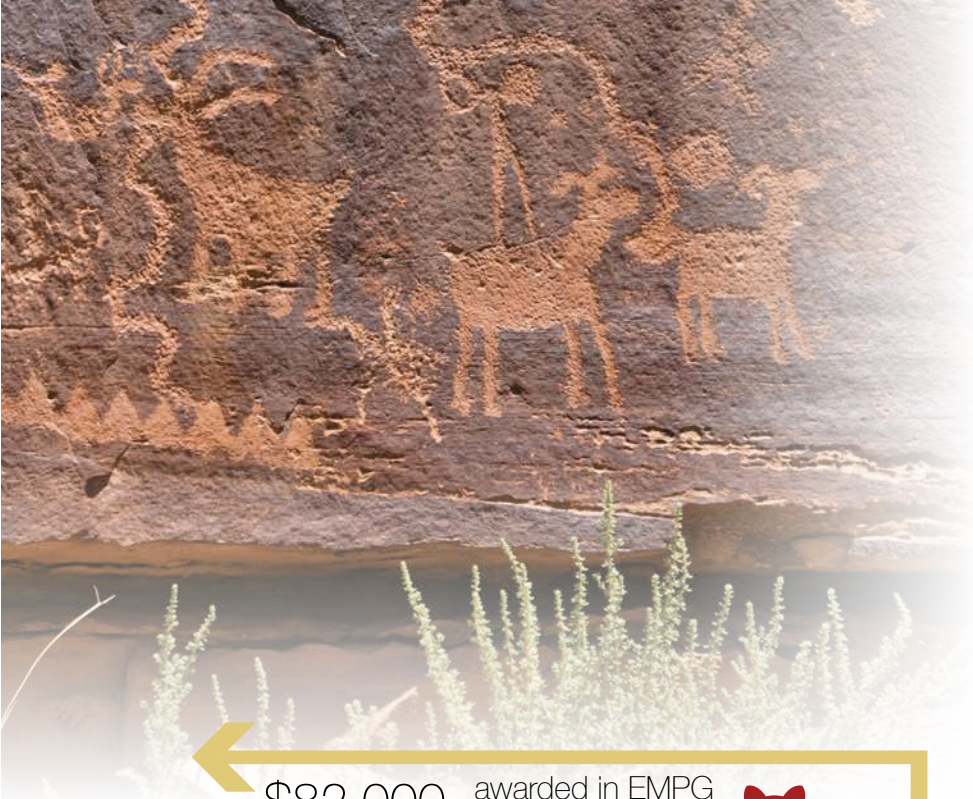






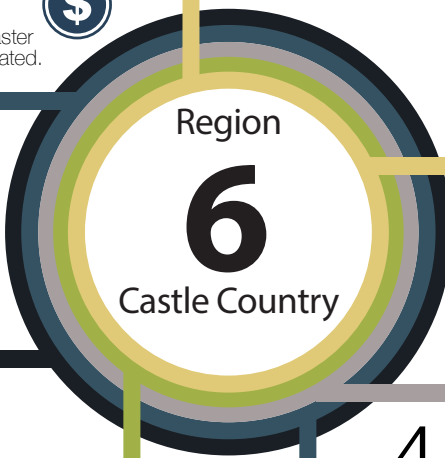






\$82,000 awarded in EMPG Competitive Funds   
 -----  
 awarded in Non-Disaster Funds \$209,976   
 -----  
 \$0 awarded in Disaster Funds 

Region 6 has not experienced any recent disasters where disaster pass-through funding was allocated.



 2,899 Participants

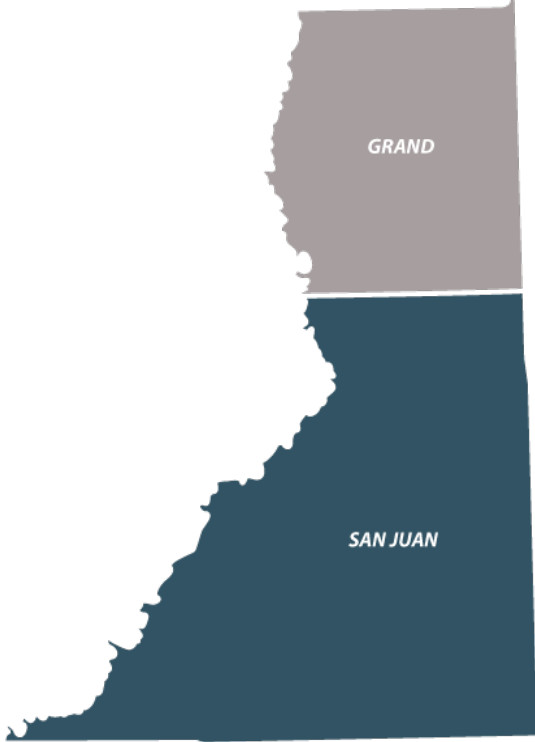
 18 Search and Rescue Missions  
\*Based on Search and Rescue Financial Assistance Program Reports

Hosted 2   
 Training Courses with 40 participants

7   
 Exercises DEM participated in or evaluated

4   
 Conducted Citizen Corps Outreach at Community Events  
 Citizen Corps Programs (CERT, MRC, Fire Corps, VIPS, Neighborhood Watch)





\$73,000 awarded in EMPG Competitive Funds



awarded in Non-Disaster Funds \$316,263



\$0 awarded in Disaster Funds  
Region 7 has not experienced any recent disasters where disaster pass-through funding was allocated.

1 Community participates in the National Flood Insurance Program Community Rating System



917 Participants



142 Search and Rescue Missions



\*Based on Search and Rescue Financial Assistance Program Reports

Hosted 2 Training Courses with 23 participants



5 Exercises DEM participated in or evaluated



2 Citizen Corps Programs (CERT, MRC, Fire Corps, VIPS, Neighborhood Watch)  
Purchased a new preparedness trailer through Citizen Corps



# PARTNERS



It takes the *whole* community to prepare for disaster.

# 2015 HOT TOPICS IN EMERGENCY MANAGEMENT



## Drones in Emergency Management

- Unmanned aerial vehicles (UAV), or drones, have seen a meteoric rise in popularity, not only for hobbyists, but for real estate agents, film companies and in emergency management.
- It makes sense to use such an inexpensive tool for disaster documentation or situational awareness. Drones are cheaper than helicopters, require little training and are quick to deploy. A handful of state and local agencies have or plan to purchase a UAV.
- A recent article in Popular Mechanic magazine stated that more than a million people would be receiving drones for Christmas 2015.



## Buzzwords in Emergency Management

- Alternative Energy - utilizing new energy sources empowers businesses and individuals to function after an incident
- Resiliency - the ability by which a family, business or community can bounce back after a disaster saves time, money and emergency manpower
- Space Weather - Solar flares, solar energetic particles and coronal mass ejections impact emergency support systems and critical infrastructure
- HazMAT Transportation - new regulations on quantities of crude oil being transported in populated areas
- Electromagnetic Pulse - An EMP could impact critical infrastructure along with personal electronic devices
- Whole Community - Successful operations occur when organizations know their roles, understand how they fit into a plan, and are able to execute the plan



## Climate Change

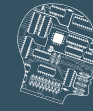
- The challenges posed by climate change, such as more intense storms, frequent heavy precipitation, heat waves, drought, extreme flooding, and higher sea levels could significantly alter the types and magnitudes of hazards faced by communities and the emergency management professionals serving them
- FEMA is requiring states to include climate adaptation in their mitigation plans beginning in 2016. The goal is to assist states in reducing risk and increasing resiliency
- Emergency managers and other FEMA partners need information to help them make decisions on how to manage climate-related risks and capitalize on opportunities to further preparedness



## Advancement of the Professionalization of Emergency Management

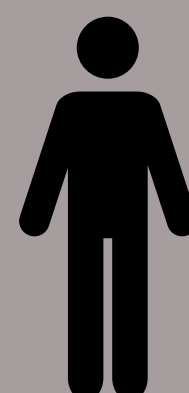
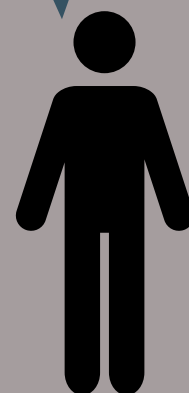
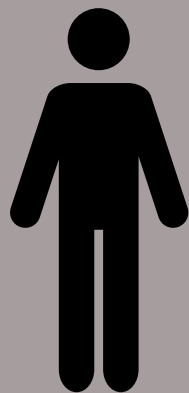
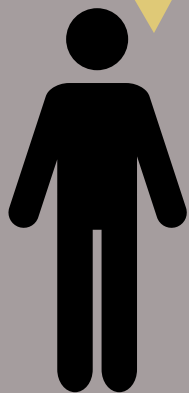
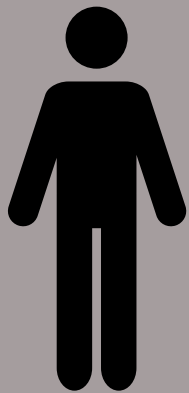
- The Utah Certified Emergency Manager (CEM) and Utah Associate Emergency Manager (AEM) Program was created this year.
- In 2015, Utah had 15 CEMs and 4 AEMs through the International Association of Emergency Managers as well as 19 Utah CEM and AEMs
- Those who certify, gain recognition in their field and value the professional aspects of Emergency Management.

DEM has been Emergency Management Accreditation Program (EMAP) accredited twice (2007, 2012) and currently in review for reaccreditation in 2017. Accreditation is a means of demonstrating, through self-assessment, documentation and peer review, that a program meets national standards for emergency management programs.



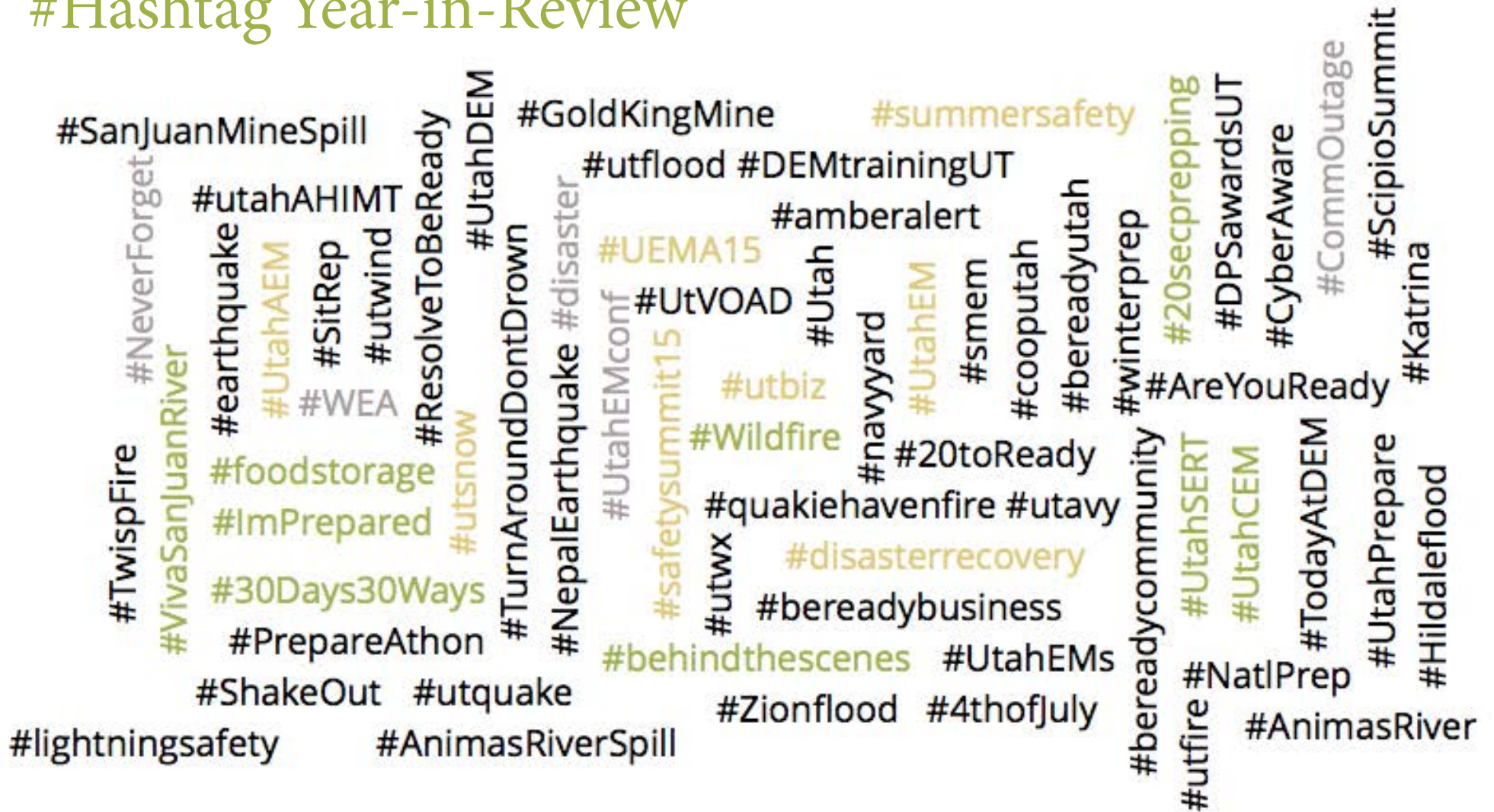
## Cyber Security Planning

- Utah businesses from energy, transportation, banking, healthcare, communications and water sectors attended cyber security training facilitated by Idaho National Laboratories
- Cybersecurity: 60 Utah IT managers received the latest DHS briefing and tested their plans at a cyber security tabletop exercise in November





# #Hashtag Year-in-Review



From all of us at the Division of Emergency Management, may 2016 be a year of preparedness and safety for all of Utah.



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