

EPA Resilience Webinar

December 7, 2016



Mitigation Project Financing

Brad Bartholomew
Utah Division of Emergency Management
Mitigation & Recovery Manager

Mitigation Financing

State Hazard Mitigation Officer (SHMO)

- Assess hazards and identify mitigation measures to reduce risk
- Develop Utah Hazard Mitigation Plan to protect people, property, and critical infrastructure
- Assist local mitigation planners to develop Mitigation Plans and identify cost-effective options
- Oversee FEMA Mitigation Funding



Hazard Mitigation Assistance (HMA)

<p>Pre-Disaster Mitigation Competitive (PDM) Grant</p> <p>Yearly Grant 75/25 Match \$4 Million Cap</p>	<p>Hazard Mitigation Grant Program (HMGP)</p> <p>Post disaster funding 15%-20% of total FEMA Disaster</p>
<p>Flood Mitigation Assistance (FMA)</p> <p>Yearly Grant 75/25 Match \$4 Million Cap</p> <p>Flood Specific Take properties out of flood area</p>	<p>Climate Resilient Mitigation Activities (CRMA) Initiative</p> <p>Supporting communities in increasing resilience and adapting to climate change impacts Green Infrastructure</p>

Mitigation Project Criteria

- Protects lives and reduces public risk.
- Addresses repetitive or significant risk problem
- Demonstrates benefit to cost ratio of 1:1 or greater
- Is most practical, effective, and environmentally sound option
- Supports Utah mitigation goals and objectives
- Reduces vulnerability of existing structures to disasters
- Provides long-term mitigation solution
- Has affordable operation and maintenance costs

MUST HAVE OR HAVE PARTICIPATED IN A MITIGATION PLAN

Mitigation Planning

Risk Assessment

Disasters in Utah

Most fatalities*

Avalanche 38

Lightning 44

Winter Weather 68

*1970-2012 data

Most Often

Wildfire

Most Damage

Flood

Largest Potential Impacts

Earthquakes -7.0M could cause
estimated 2,500 fatalities



Floods



Earthquakes



Drought



Wildfires



Tornados



Power Outage



Seismic Mitigation Funding for Jordan Valley Water Conservancy District

- Developed an annex to the State Mitigation Plan
- Included mitigation projects for the Water District
- First District to have plan
- 3 Projects for a total of \$7,295,000



Success Stories

Mitigation Plans

Jordan Valley WCD - 3	\$5,471,250.00
Central Utah WCD - 2	\$2,084,300.00
Weber Basin WCD - 5	\$1,205,247.00
Snyderville Basin WRD - 1	\$203,235.00
Murray School District - 3	\$3,084,052.00



Funding

Project	Local Share	Federal Share	Total
JVWCD High Rise	\$597,250.00	\$1,791,750.00	\$2,389,000.00
JVWTP Filter Gallery & Chemical Control Buildings Seismic Retrofit	\$546,500.00	\$1,639,500.00	\$2,186,000.00
JVWCD Headquarters Complex Seismic Retrofit	\$680,000.00	\$2,040,000.00	\$2,720,000.00

Project	Local Share	Federal Share	Total
Weber Basin Water Conservancy District Plan	\$140,143.96	\$123,817.24	\$263,961.20
2010 Weber Basin Nonstructural seismic retrofit	\$30,550.00	\$91,650.00	\$122,200.00
2010 Weber Basin Filter Building #4	\$255,799.75	\$767,399.25	\$1,023,199.00
Weber Basin Water Culinary Wells Multihazard Mitigation Project	\$69,485.75	\$208,457.25	\$277,943.00
Weber Basin Water 12MG Tank	\$23,505.00	\$70,515.00	\$94,020.00
Weber Basin Water WTP Backwash Tanks Retrofit	\$169,806.00	\$244,938.00	\$414,744.00

Tips for Financing Resilience Mitigation for Water and Wastewater Utilities

- Write a Mitigation Plan
- Prioritize
- Match
- BCA
- Engineering
- Have a Mitigation Plan



Brad Bartholomew Disaster Mitigation & Recovery

The future
will NOT be like
the past.

bbarth@utah.gov
801.673.5854

<https://www.flickr.com/photos/utahnaturalhazards/>

<https://uthazardmitigation.wordpress.com/>

