



Utah Department of Public Safety
Division of Emergency Management
Weekly Briefing
Thursday, August 20, 2015 As of Noon
(801) 538-3400 (24-hour number)



Significant Activity Summary

- **Significant Incidents:**
 - **New:** Smoke from wildfires are causing hazy skies across Utah. Multiple wildfires are burning in California, Oregon, Washington, Idaho and Montana. There are no major wildfires that are threatening communities or critical infrastructure in Utah at this time, however there are a few less-significant fires, for details [click here](#).
 - **New:** DEQ has issued a mandatory air quality action day, see details [page](#).
- **Significant Weather:**
 - **New:** The National Weather Service has issued Hazardous Weather Outlooks for Utah. Smoke will remain over the region through the weekend. Showers and thunderstorms will be possible over much of Utah next Tuesday and Wednesday. See the Significant Weather Details [page](#) for more information.
 - **New:** The NWS reports current atmospheric and oceanic conditions reflect a significant and strengthening El Nino event. For the impacts, [click here](#).
- **Significant Actions:**
 - **Ongoing:** Local and State efforts continue to monitor impacts of the Gold King Mine spill affecting the San Juan River which occurred on August 5. Multiple State of Utah agencies have analyzed test results and report the water can be used for recreational, livestock and irrigation. Sample collections continue and the focus has now shifted to the need for long term monitoring. [See details page](#).
 - A State of Emergency was declared in [San Juan County](#) , [The Navajo Nation](#) and the states of Utah, Colorado and New Mexico.
 - DEM deployed a team of Public Assistance support for the [Major Disaster Declaration](#) flooding in Colorado. Learn more about [EMAC](#) deployments.
 - The Utah Division of Forestry, Fire and State Lands deployed Utah fire personnel and equipment to assist local wildfire suppression efforts in Oregon, Washington, Idaho and California.
 - Governor Gary Herbert has signed a monthly [Executive Order](#) to expedite the declaration process for wildfires.
- **Alerts/Warnings:**
 - **New:** Cyber Security alerts were issued this week. See details [page](#) for more information.

State Emergency Operations Center Status			
Daily Operations	EOC Activation Level		
	Level 3 Monitoring	Level 2 Partial Activation	Level 1 Full Activation

Situation Reports and Weekly Briefings are produced by the Division of Emergency Management, see last page for details.



Gold King Mine Spill Details

- The State of Utah will continue to monitor water samples from the San Juan River. The samples will no longer be expedited by plane for delivery to the lab.
- Multi agency local and state conference calls continue to determine needs are met and resources are coordinated.
- In Utah, test results from fish specimens are still in progress. The samples are en route to a lab in Colorado. This will be a long term monitoring process.
- The Navajo Nation Emergency Manager reports the Nation will wait for additional test results and information prior to using the water.
- As new information, test results and analysis of the results have become available, State of Utah agencies have distributed multiple news releases. Agencies have collaborated using the State Joint Information System (JIS). The JIS has distributed Utah related [news releases](#) through the Department of Environmental Quality (DEQ).
- Please see the most recent news release, distributed yesterday, [next page](#).



A kayaker paddles the Animas River minutes after the La Plata County Sheriff lifted the ban on recreational river use on August 14, 2015. (Credit: Eric Vance/EPA)

For additional EPA details
see the EPA's Gold King Mine information [website](#).



Multi-Agency News Release

State Agencies to Focus on Long Term Impacts Now that the Highest Levels of Contaminates Have Passed Through The San Juan River

SALT LAKE CITY – Utah State agencies are encouraged by improving water quality in the San Juan River based on the latest samples analyzed this week. Utah Department of Environmental Quality (DEQ) scientists believe that the highest levels of contaminants associated with the initial spill event have passed through the San Juan River in Utah. Water test results suggest that the plume carrying lead, arsenic and other heavy metals from the spill present little health risk to users as it has been settled and diluted while making its way to Lake Powell.

DEQ, in coordination with state and federal agencies, is now turning its attention on a long-term monitoring strategy that will focus on sediments and what, if any, remediation efforts may need to occur. “Our focus has been on the acute effects of the spill,” said Walt Baker, director of DEQ’s Division of Water Quality. “This effort will be maintained for a while longer but we will be working with our partners on a long-term monitoring plan.”

The Utah Department of Health (UDOH) and San Juan Public Health have evaluated the most current data and find that recreational exposures to the San Juan River are not expected to result in adverse health effects. UDOH does recommend that recreational users bring along their own drinking water while visiting the river and not rely on personal devices for filtration/purification of river water. Visitors to the river, especially in the case of children, should refrain from ingesting the water and are also encouraged to minimize skin contact with dirt and sand along the river. People who come in contact with sediment should rinse off promptly after contact, and as always, wash hands well with soap and water before eating.

DEQ continues to coordinate with three San Juan County water systems regulated by the State of Utah (Mexican Hat, Bluff, and Sand Island) in regards to monitoring the public drinking water wells located near the San Juan River. None of these three water systems draw their source waters directly from the San Juan River. Mexican Hat’s long-term monitoring strategy includes taking metals samples from its wells this week, and continuing periodic metals sampling as needed beginning in six months’ time. Public water systems on tribal lands are being managed by the appropriate authorities such as the Navajo Tribal Utility Authority.

The Utah Department of Agriculture and Food (UDAF) lifted its advisories against using San Juan River water for crop irrigation and livestock watering. Utah State University’s veterinary toxicologist reports the river’s highest levels of contamination pose no adverse effects on plants, soils and animals. The Utah Division of Wildlife Resources (DWR) collected fish tissue samples that will be tested at a lab in Denver. However, no fish kills have been documented along the San Juan River or Lake Powell. DWR is working with DEQ to develop a long term plan to continue monitoring fish populations.

For ongoing updates and information visit <http://www.deq.utah.gov/Topics/Water/goldkingmine/index.htm>



Wildfire Details

The Utah Division of Forestry, Fire and State Lands reports there are no major fires that are growing or threatening communities or critical infrastructure in Utah at this time, however there are a few fires in the state.

Wasatch Front - Three fires during the past week

- 1) The **Berry Fire** (BLM T3 Management) in Tooele County 265 acres and 60%-70% contained, approximately 50 acres of private land involved Sage Grouse Management Area and BLM Priority Habitat impacted, no growth over the past few days.
- 2) The **Pole Springs Fire** in western Tooele County is contained at 140 Acres, BLM T4 Management, no state or private land involved.
- 3) The **Parley's Fire**, located near I-80, was controlled at 6 acres, now in monitor status, Salt Lake City owned property, Unified Fire Authority management. This fire is not included on the map (right).

Millard County - One ongoing fire

- 4) The **Solitude Fire**, included in reports earlier this month, is being managed similarly to a prescribed burn.

Light activity that has been suppressed by initial attack has occurred throughout Utah during the past week. FFSL does not recommend daily situation reporting is needed at this time for the fires listed above.



Credit: UtahFireInfo



@wildfiretoday

For frequently updated information regarding wildfire information visit

utahfireinfo.gov

or follow

[@utahwildfire](https://twitter.com/utahwildfire)

on Twitter



Significant Weather Details

The National Weather Service has issued Hazardous Weather Outlooks for Utah.

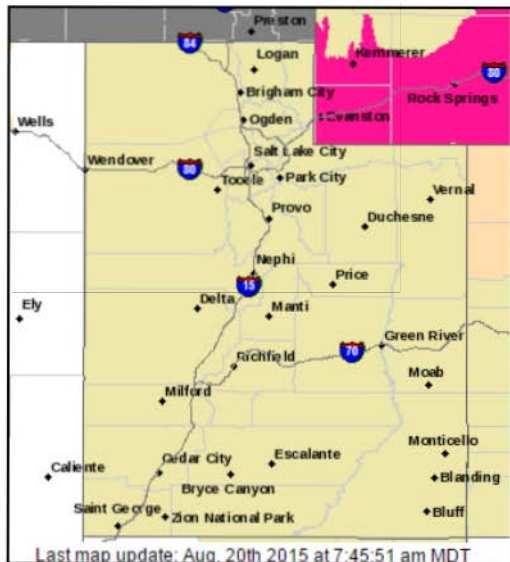
Under the influence of a high pressure ridge, generally dry weather can be expected through tonight, though isolated showers and thunderstorms will be possible over the higher terrain of southeast Utah.

With a bit more moisture spreading into the region on Friday, there will be a slight chance for showers and thunderstorms over the higher terrain of southern and eastern Utah.

A cold front will drop into northern Utah on Saturday, as an upper level system moves across the northern Rockies. This system will usher in a cooler and even drier air mass. Thus, generally dry weather can be expected from Saturday until late Monday afternoon.

With a prevailing west to northwest flow aloft, smoke associated with the fires burning over the Pacific Northwest, northern California, northern Idaho, and western Montana will remain over the region through the weekend.

The weather pattern changes from late Monday into the middle of next week as a southerly flow will push moisture into the region, providing a chance for showers and thunderstorms over all but the northwest corner of Utah.



Red Flag Warning	
Fire Weather Watch	
Air Quality Alert	
Hazardous Weather Outlook	

For frequently updated information regarding severe weather from the National Weather Service: [Click Here](#)



Air/Health Advisories

Utah Air Quality Forecasts and Current Conditions

Summary Data courtesy of:

Utah Department of Environmental Quality - Air Monitoring Center

The Utah Department of Environmental Quality has issued a Mandatory Air Quality Action Day. Air pollution conditions are updated twice daily on the Air Pollution Hotline:

1. Residents in Salt Lake and Davis counties may call (801) 536-0072
2. Residents in Utah and Weber counties may call (800) 228-5434.
3. Residents in Cache County may call (435) 792-6612.

For hourly updated pollution forecasts visit www.airquality.utah.gov

For health information visit
www.airnow.gov

Utah Air Quality Forecasts and Current Conditions Summary	FORECAST		CURRENT AQI
	Thu Aug 20	Fri Aug 21	
Brigham City	! USG	! USG	93
Canyonlands National Park	n/a	n/a	47
Logan	! USG	! USG	77
Ogden	! Mod	! Mod	91
Provo	! Mod	! Mod	78
Salt Lake City	! Mod	! Mod	85
Tooele	! Mod	! Mod	107
Vernal	Mod	Mod	n/a
Washakie Reservation	n/a	n/a	93

Click [here](#) for updates

For more information on what you can do to help please visit 50 Summer Suggestions

www.cleanair.utah.gov/summer/50summersuggestions.htm



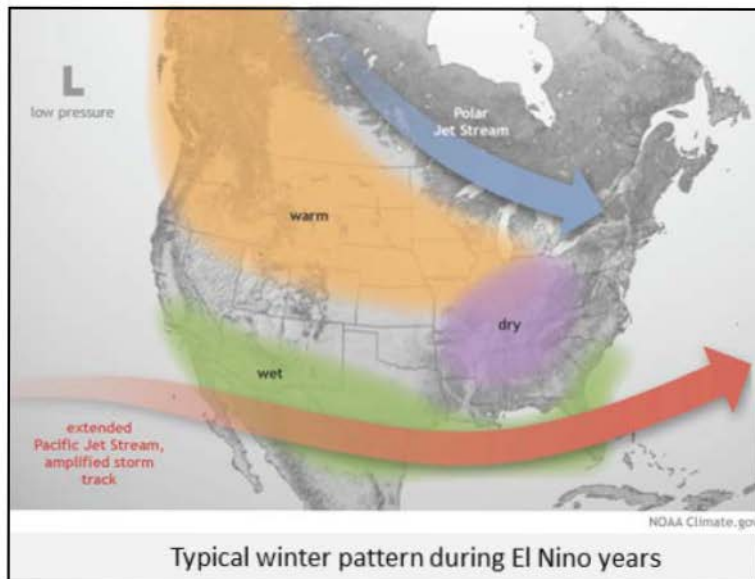
El Nino Details

The Forecast:

Current atmospheric and oceanic conditions reflect a significant and strengthening El Nino event is ongoing. Forecasts indicate there is a high likelihood of a strong El Nino event through spring 2016.

The Impact:

El Nino periods typically feature a wetter than normal pattern across the southwest, with a warmer than normal pattern across the Pacific Northwest. a strong El Nino increases the odds of a wet winter across southern Utah.

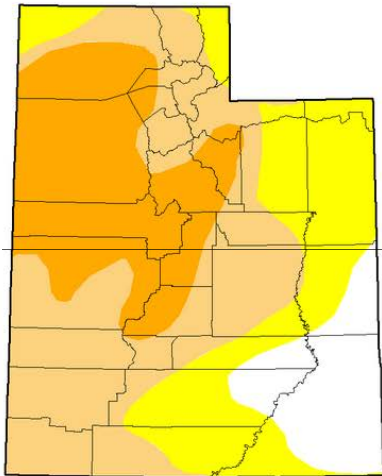


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Drought Information


Drought Disaster Designations: As of August 19, there are 21 Primary Counties and 8 Contiguous Counties with disaster designations in Utah



Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current 2015-08-18	11.92	88.08	63.12	26.82	0.00	0.00
Last Week 2015-08-11	11.92	88.08	63.12	26.82	0.00	0.00
3 Months Ago 2015-05-19	0.00	100.00	99.19	35.73	9.32	0.00
Start of Calendar Year 2014-12-30	18.93	81.07	58.99	12.98	0.00	0.00
Start of Water Year 2014-09-30	18.89	81.11	59.30	12.98	0.00	0.00
One Year Ago 2014-08-19	9.26	90.74	81.92	30.78	1.43	0.00


Intensity:

 D0 - Abnormally Dry

 D1 - Moderate Drought

 D2 - Severe Drought

 D3 - Extreme Drought

 D4 - Exceptional Drought



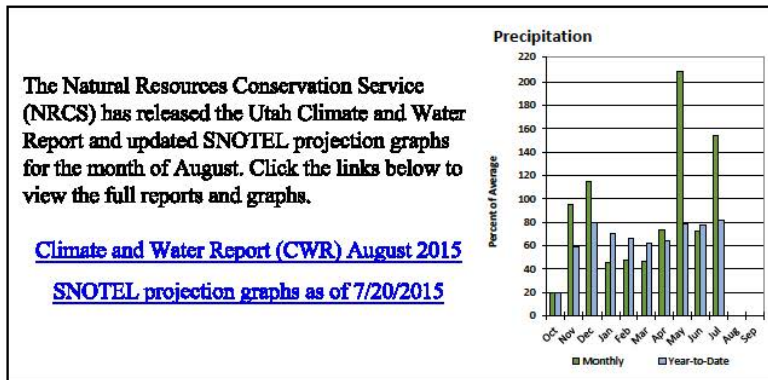
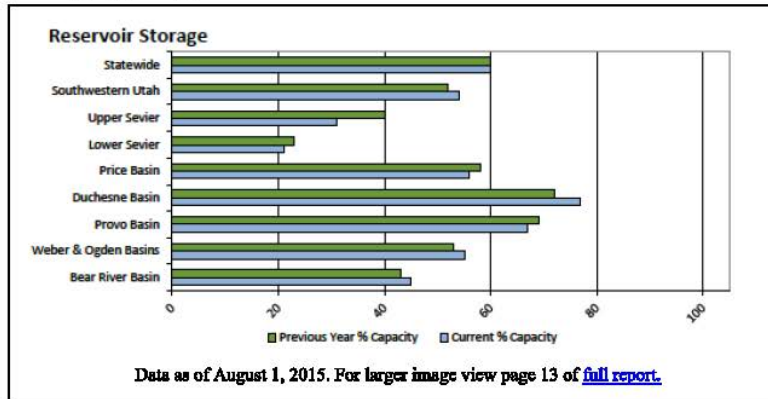
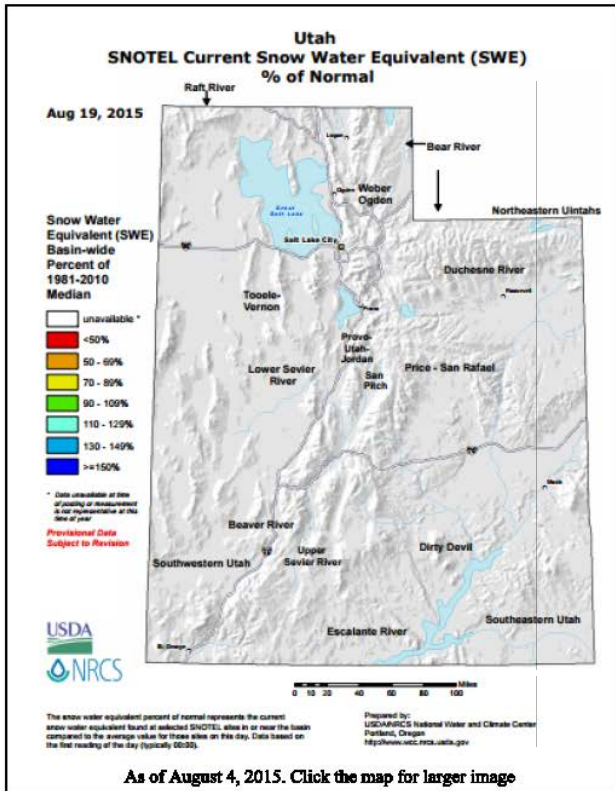
Click [here](#) for the **Seasonal Drought Outlook** valid July 16 through October 31. Many parts of Utah should see drought persist or perhaps intensify.

This data is released weekly on Thursdays. [Click here](#) for Drought Monitor details.

For updates, visit usda.gov/drought and <http://droughtmonitor.unl.edu>



Water Supply Data



Precipitation in June was below average at 73%, which brings the seasonal accumulation (Oct-Jun) to 78% of average. Soil moisture is at 49% compared to 44% last year. Reservoir storage is at 67% of capacity, compared to 66% last year.

For more information visit www.wcc.nrcrs.usda.gov



Cyber Threats

National:

Alerts issued for zero-day flaws in SCADA systems. The Industrial Control Systems Computer Emergency Response Team (ICS-CERT) published six advisories after security researchers from Elastica discovered several remote and local file inclusion, weak password hashing, insecure authentication, hardcoded credentials, weak cryptography, and cross-site request forgery (CSRF) vulnerabilities, among others, affecting Web-based Supervisory Control and Data Acquisition (SCADA) human machine interfaces (HMI) used by multiple organizations. Source: <http://www.securityweek.com/ics-cert-issues-alerts-zero-day-flaws-scada-systems> What is SCADA? [Click here to learn.](#)

High severity flaw in Android allows arbitrary code execution. Security researchers from Trend Micro discovered a heap overflow vulnerability in the Android operating system's (OS) mediaserver Audio Policy Service, AudioEffect component, in which an app requiring no permissions could be used to execute arbitrary code. The vulnerability was patched in August security updates. Source: <http://www.securityweek.com/high-severity-flaw-android-allows-arbitrary-code-execution>

Adobe patches vulnerability in LiveCycle data services. Adobe released a security hotfix for its LiveCycle Data Services (DS) framework addressing an XML External Entity (XXE) vulnerability that could result in information disclosure. Source: <http://www.securityweek.com/adobe-patches-vulnerability-livecycle-data-services>

Emergency IE patch fixes vulnerability under attack. Microsoft released an emergency patch August 18 for all supported versions of its Internet Explorer Web browser addressing a zero-day memory corruption vulnerability that an attacker could leverage to remotely execute arbitrary code in the context of the current user. Source: <https://threatpost.com/emergency-ie-patch-fixes-vulnerability-under-attack/114342>



Firefox Alert:

A vulnerability was discovered with the Firefox web browser used to access the internet that may allow an attacker to read and copy sensitive files on a user's computer. The risk this vulnerability brings to the State of Utah is high and DTS staff are currently taking steps to address this vulnerability. [Click here](#) for additional solution details.

To report cyber infrastructure incidents or to request information, please contact US-CERT at soc@us-cert.gov or visit their Web site: <http://www.us-cert.gov>

Information on IT information sharing and analysis can be found at the IT ISAC (Information Sharing and Analysis Center) Web site: <http://www.it-isac.org>



Public Assistance Program Summary

as of 8/20/2015

Disaster	No. of PW*	Amount Awarded	Amount Paid
DR-1955 – Declared 2/11/11 Severe Winter Storms and Flooding Garfield, Kane, Washington Counties	160	\$8,729,921	\$7,157,464
DR-4011 – Declared 8/8/11 Flooding Multiple counties affected	352	\$8,647,064	\$7,223,240
DR-4053 – Declared 2/1/12 Severe Wind Storm Davis County	93	\$2,579,454	\$2,501,857
DR-4088 – Declared 11/3/12 Severe Storm and Flooding Washington County	33	\$1,742,813	\$1,416,268

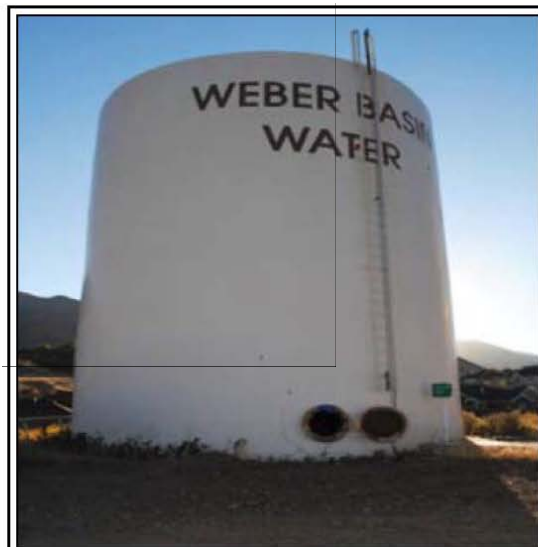
*The federal [Public Assistance \(PA\) Grant Program](#) administered by FEMA provides grants for debris removal, emergency protective measures, and permanent restoration of infrastructure after Major Disaster Declarations. DEM coordinates the program for the State of Utah. A "PW" (Project Worksheet) is a form used to document the Scope of Work (SOW) and cost estimate for a project. Click [here](#) for additional information.



Hazard Mitigation Grant Program Summary

Project Number	Project Title	Project Type	Financial Assistance	Amt Expended To Date
1955-2R	St George Sunbrook Golf Course and Monterey Subdivision	Erosion Protection	\$357,057	\$274,400
1955-3R	St George Millcreek Electric Generation Facility	Erosion Protection	\$463,435	\$325,717
1955-4P	Davis County Plan Update	Mitigation Plan	\$23,250	
1955-6P	Murray City School District Multihazard Mitigation Plan	Mitigation Plan	\$31,500	\$31,500
1955-9R	Snyderville Basin Water Reclamation District East Canyon WRF	Seismic Retrofit	\$203,235	\$203,235
1955-11R	Emery County Long Street Culvert # 2 (88"x65")	Flood Reduction	\$90,765	\$66,549
1955-12R	Emery County Long Street Culvert # 1 (48")	Flood Reduction	\$129,607	\$83,762
4011-5R	Murray School District Riverview Junior High School	Seismic Retrofit	\$910,516	\$910,516
4011-6R	St George Riverside Drive	Erosion Protection	\$258,521	\$194,675
4011-7R	NSL Springhill Landslide	Landslide Acquisition	\$162,497	\$162,497
4011-9R	Weber Basin Water Conservancy District 12MG Tank	Seismic Retrofit	\$70,515	\$14,934
4011-10F	Implementation of Risk-based liquefaction maps in hazard ordinances	5 Percent Initiative	\$71,691	
4053-1R	Brigham City Mantua Flooding Mitigation Project Culvert Replacement	Flood Reduction	\$399,758	
4053-2F	UGS 5% LiDAR Acquisition	5 Percent Initiative	\$21,000	\$21,000
4088-1R	Weber Basin Water Conservancy District WTP Backwash Tanks Retrofit	Seismic Retrofit	\$244,938	
4088-4F	UGS 5% Liquefaction Mapping	5 Percent Initiative	\$12,892	\$12,892
	Grand Total		\$3,451,177	\$2,301,676

This information is updated on the 1st each month.



Weber Basin Water Conservancy District - 12MG Tank (HMGP Project # 4088-1R)

This project pertains to seismic retrofit of backwash tanks located at the District's Davis South Water Treatment Plant and Weber South Water Treatment Plant. These two tanks are a very high priority, since the water treatment plants would need to be shut down if these tanks are not operable. Currently the District is working on design and engineering.

*The federal [Hazard Mitigation Grant Program](#) (HMGP) administered by FEMA provides grants to states and local governments to implement long-term hazard mitigation measures after Public Assistance is approved under a Major Disaster Declaration. DEM coordinates the program for the State of Utah.

5 Percent Initiative Projects - Projects that may be difficult to conduct a standard Benefit-Cost Analysis (BCA) to prove cost-effectiveness.



NRCS EWP* Program Summary

Project Number	Project Sponsor	Financial Assistance	Amt Expended To Date	Congressional District
5082	Utah Dept of Ag & Food - Spring 2011 Green River Flooding Tusher Diversion	\$5,055,000.00		2
5084	Weber County - Spring 2011 Flooding	\$13,000,000.00	\$10,457,748.44	1
5088	Emery County - 2012 Seeley Fire	\$3,235,200.00	\$3,235,200.00	3
5093	Ivins City - Flash Flooding	\$293,075.57	\$293,075.57	2
	Grand Total	\$21,583,275.57	\$13,986,024.01	

This information is provided by [Bronson Smart](#) of NRCS and is updated on the 1st each month.

*The U.S. Department of Agriculture's Natural Resources Conservation Service (NRCS) administers the [Emergency Watershed Protection \(EWP\) Program](#), which helps communities recover from natural disasters. The purpose of this program is to safeguard lives and property from floods, drought, and the products of erosion on any watershed whenever fire, flood or any other natural occurrence is causing or has caused a sudden impairment of the watershed. A Presidential Disaster Declaration is not necessary for an area to be eligible for assistance.



Cache County - Spring 2011 Flooding (Project # 5079)
Floodplain restoration project on the Blackamith Fork River on the south end of Logan. The project was completed in November 2014. The first picture shows the area before the project began. The second shows after homes were removed and the floodplain area was restored. Click on a photo to view larger image.



Links for More Information

State Fire Restrictions	utahfireinfo.gov/fire_restrictions/restrictions.html
Local Fire Restrictions	http://firemarshal.utah.gov/department-services/fireworks-restricted-areas/
Updated Fire Info	utahfireinfo.gov , inciweb.nwcg.gov , NWS Fire Weather Outlook
Weather Details	wrh.noaa.gov/slc , wrh.noaa.gov/map/?wfo=slc , hpc.ncep.noaa.gov/noaa/naoad1.gif
UT-WARN	utwarn.org
Traffic and Road Closures	udottraffic.utah.gov
Drinking Water	drinkingwater.utah.gov/emergency_water_storage.htm
Air and Health Advisories/Information	airquality.utah.gov , airnow.gov , health.utah.gov/asthma , Current air quality conditions
Be Ready Utah Program	BeReadyUtah.gov
Drought Information	usda.gov/drought , List of All Designated Counties
Login to WebEOC	https://veocutah.webeocasp.com/veocutah/



DEM Email Addresses

The Division of Emergency Management aims to support all 29 counties and 11 Tribal Nations in Utah. The following email addresses may be utilized to share and receive information. This is not a complete listing of all email addresses for the division, but this list should assist you in getting in touch with the appropriate contact.

Operations	DPSDEMOPS@utah.gov
Ops Desk	opsdesk@utah.gov
Planning, Situation Reports & Briefings	esf05planning@utah.gov
Liaisons	Northern Region – Kimberly Giles kgiles@utah.gov Wasatch Front Region – Tara Behunin tarabehunin@utah.gov Central Utah Region – Jeff Gallacher jgallacher@utah.gov Southwest Region – Scott Alvord salvord@utah.gov Northeastern Region – Mechelle Miller mmiller@utah.gov Castle Country and Four Corners Regions – Angelia Crowther acrowther@utah.gov Or you can contact all the liaisons simultaneously at dpsdemlno@utah.gov
Mitigation and Recovery	Brad Bartholomew bbart@utah.gov
Public Assistance Program	Jake Unguren junguren@utah.gov
Individual Assistance Program	Eric Martineau emartineau@utah.gov
Utah Public Private Partnerships (UP3)	Matt Beaudry mbeaudry@utah.gov
Public Information Officer	Joe Dougherty jdougherty@utah.gov or esf15pubaffairs@utah.gov
Be Ready Utah	bereadyutah@utah.gov
WebEOC Help	Rey Thompson reythompson@utah.gov



Division of Emergency Management

What Does the Division of Emergency Management Do?

DEM (pronounced D-E-M) plays an active role during emergencies and disasters. The Division coordinates emergency management efforts between federal, state and local government agencies and tribal nations. These efforts include preparedness, response, recovery and mitigation.

DEM also brings subject matter experts and multiple state agencies together at the State Emergency Operations Center to support and coordinate response and recovery as needed.

While Utah is not located in the hurricane path or tornado alley, disasters strike here. For the list of threats and hazards in Utah see the State Hazard Mitigation [Plan](#). When no incidents are underway, the Division's year-round efforts prepare the State of Utah to better respond to and recover from disasters.

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 the efforts necessary
to mitigate, prepare for, respond to
and recover from
emergencies, disasters and catastrophic events.*



To learn more about DEM, the agency which produces Weekly Briefings and Situation Reports, click [here](#) for the 2014 Annual Report. Also, see [DEM Organizational Chart](#).

For questions or comments regarding this DEM report, email: ESF05Planning@utah.gov

