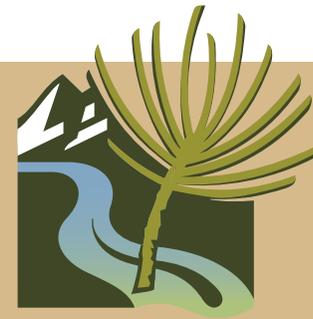


Flood Preparedness and Mitigation Guide

Schultz Flood Hotline: (928) 679-8390 Schultz Flood Email: schultzmitigation@coconino.az.gov
Schultz Flood Webpage: www.coconino.az.gov/SchultzFloodInformation



Restore. Revive. Renew.
Through Partnership
SCHULTZ COMMUNITY RECOVERY

THE RISK IS REAL.
Purchase or
renew your flood
insurance now.



For information call the National Flood Insurance Program at 1-800-720-1093 or visit www.floodsmart.gov.

Sign up for CodeRED, the County's new Emergency Notification Service!

CodeRED is Coconino County's free Emergency Notification service that alerts residents and businesses

about time-sensitive general and emergency situations - including wildfires, thunderstorms, tornadoes and flash flooding - that can impact our region throughout the year and especially during monsoon season.

Registering with **CodeRED** makes staying informed with the latest emergency updates and notifications easy. Users can receive the latest updates on home and cell phones or via text and e-mail messages.

Go to www.coconino.az.gov/emergency and click on the **CodeRED** banner to set up an account and choose how you want to receive your emergency alerts. Opting into the **CodeRED** Weather Warning will allow you to receive notifications on potentially dangerous weather conditions like tornadoes, severe thunderstorms and flash floods.

Those with questions about **CodeRED**, or needing assistance when signing up for the free service, can contact the Coconino County Emergency Management Division at (928) 679-8311.

Sign up for...



Summer 2014



Monsoon Season 2013: Brandis Log Rundown Structure in Action

Dear Schultz Flood Area Property Owner,

Thank you for your interest in the *2014 Flood Preparedness & Mitigation Guide*. This year's Guide highlights the Schultz Flood mitigation projects that are currently under construction, which represent an investment of more than \$8 million in flood mitigation in 2014. In addition, the Guide continues to offer flood preparation guidelines and resources to help keep you and your family aware, informed and safe during the monsoon season.

During the last four years, the County and its partners have made great strides towards developing long-term mitigation to reduce the flooding threat to lives, public infrastructure, utilities and private property in the Schultz Flood area. To date, approximately \$20 million in flood mitigation funding has been secured through the Coconino County Flood Control District (CCFCD) and its funding partners, which include the Natural Resources Conservation Service's (NRCS) Emergency Watershed Protection (EWP) program; the U.S. Forest Service, the Federal Emergency Management Agency (FEMA), the Arizona Division of Emergency Management and the Federal Highway Administration (FHWA).

We are very pleased to be in construction again this year on several more Schultz Flood area flood mitigation projects. However, it is extremely important to remember that these measures are designed to mitigate, not eliminate, the threat of flooding. As we learned during the 2013 monsoon season - the region's second wettest on record - the threat of dangerous flash flooding remains. During last season, properties downstream of the southern portion of the burn area sustained their most significant flooding since the Schultz Fire of 2010, including damage from the largest single storm to hit the entire burn area to date, producing 2.6 inches of rainfall in one hour. In addition, watersheds to the north experienced significant rainfall totals. Fortunately, the new Brandis Way and Wupatki Trails EWP projects performed exceptionally well throughout monsoon season.

Please know that Coconino County continues to stand with you and is working hard on your behalf. We thank you for your continuing cooperation and hope you find the information in this Guide valuable and supportive.

Sincerely,

Elizabeth "Liz" Archuleta
District 2 Supervisor

Mandy Metzger
District 4 Supervisor & Vice Chair

2014 Flood Mitigation Projects Currently Under Construction

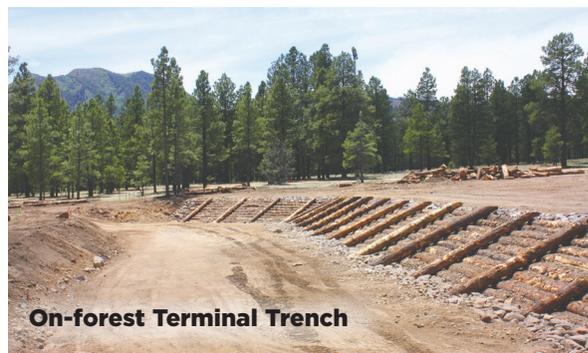
Paintbrush North Emergency Watershed Protection Project

The Paintbrush North Emergency Watershed Protection (EWP) Project mitigates flooding in the northern area of the Paintbrush neighborhood. This continues to be among the most heavily impacted areas during monsoon season. Designed to accommodate a five-year, six-hour storm event, the Paintbrush North Project creates sediment-reduction measures on the forest and constructs an off-forest floodwater conveyance. The conveyance runs from Paintbrush Lane to the intersection of Campbell Avenue and Linda Lane. From there, floodwaters will travel down through the Lower Campbell Ditch to Highway 89.

Start Date: **April 8, 2014**
 Targeted Completion: **June 30, 2014**
 Project Cost: **\$2.9 Million**
 Funding Entities: **Coconino County Flood Control District and NRCS EWP Program**



Storm Drain Being Laid for Paintbrush Corridor



On-forest Terminal Trench

Upper Campbell Emergency Watershed Protection Project

The Upper Campbell Emergency Watershed Protection Project includes on and off-forest flood mitigation measures including a new roadside channel located on Campbell Avenue between Alice Drive and the forest boundary. The Project restores on-forest alluvial fans to reduce sediment and more effectively convey floodwaters through Campbell Avenue's off-forest flood mitigation infrastructure, which includes the Upper Campbell Ditch, Crisp Hill Crossing and Lower Campbell Ditch. This provides additional mitigation for residences, private property, utilities and Campbell Avenue.

Start Date: **March 24, 2014**
 Targeted Completion: **June 30, 2014**
 Project Cost: **\$2.2 Million**
 Funding Entities: **Coconino County Flood Control District, NRCS EWP Program, and U.S. Forest Service**



Upper Campbell Ditch is Part of Flood Mitigation Infrastructure

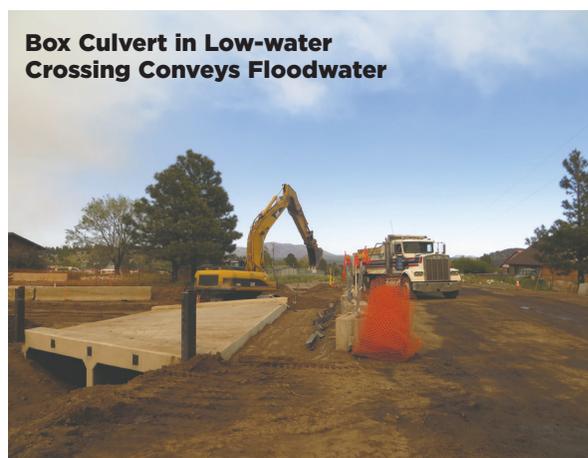


On-forest Alluvial Fan Restoration

Alice Drive Crossing Project

The Alice Drive Crossing Project is designed to significantly reduce flood impacts to the Alice Drive and Campbell Avenue area. Over the past four summers, this area has required significant road-clearing, re-stabilizing and reconstruction efforts because of flooding. The project uses a low-water crossing and a large-box culvert at the corner of Alice and Campbell to convey floodwaters downstream to the Upper Campbell Ditch.

Start Date: **March 11, 2014**
 Targeted Completion: **June 30, 2014** | Project Cost: **\$450,000**
 Funding Entities: **Coconino County Flood Control District and Federal Emergency Management Agency**



Box Culvert in Low-water Crossing Conveys Floodwater



Lot Mitigation Measures Underway

Individual Lot Mitigation Measures

Individual Lot Mitigation (ILM) projects are currently underway for properties in the Paintbrush and Campbell corridors. These projects are designed to mitigate flooding impacts to private properties that will continue to be at high risk for flooding.

Start Date: **May 19, 2014**
 Targeted Completion: **June 30, 2014**
 Project Cost: **\$800,000**
 Funding Entities: **Coconino County Flood Control District and NRCS EWP Program**

Projects on Deck

Paintbrush South Emergency Watershed Protection Project

Engineering for the Paintbrush South Emergency Watershed Protection Project is nearing 30 percent completion. If the necessary drainage easements are secured by this summer, then construction of the on and off-forest measures will begin by mid-fall, and the project will be completed in the spring of 2015.

Copeland Detention Basin Project

The Copeland Detention Basin Project is designed to mitigate flooding impacts to Highway 89 and downstream neighborhoods, including Fernwood and Doney Park. The project collects and stores flood water coming from the northern portion of the burned area before it crosses Highway 89.

Located on an 80-acre parcel of land bounded by East Copeland Lane to the south, Kevin's Way to the north, residential properties to the west and U.S. 89 to the east, the project is necessary because runoff from heavy rains now exceed the capacity of the existing roadside ditch and the U.S. 89 box culverts that carry water under the highway. The project's detention and sediment basins allow for floodwater to be released at a rate that the existing box culverts at the intersection of Copeland Lane and U.S. 89 can accommodate.

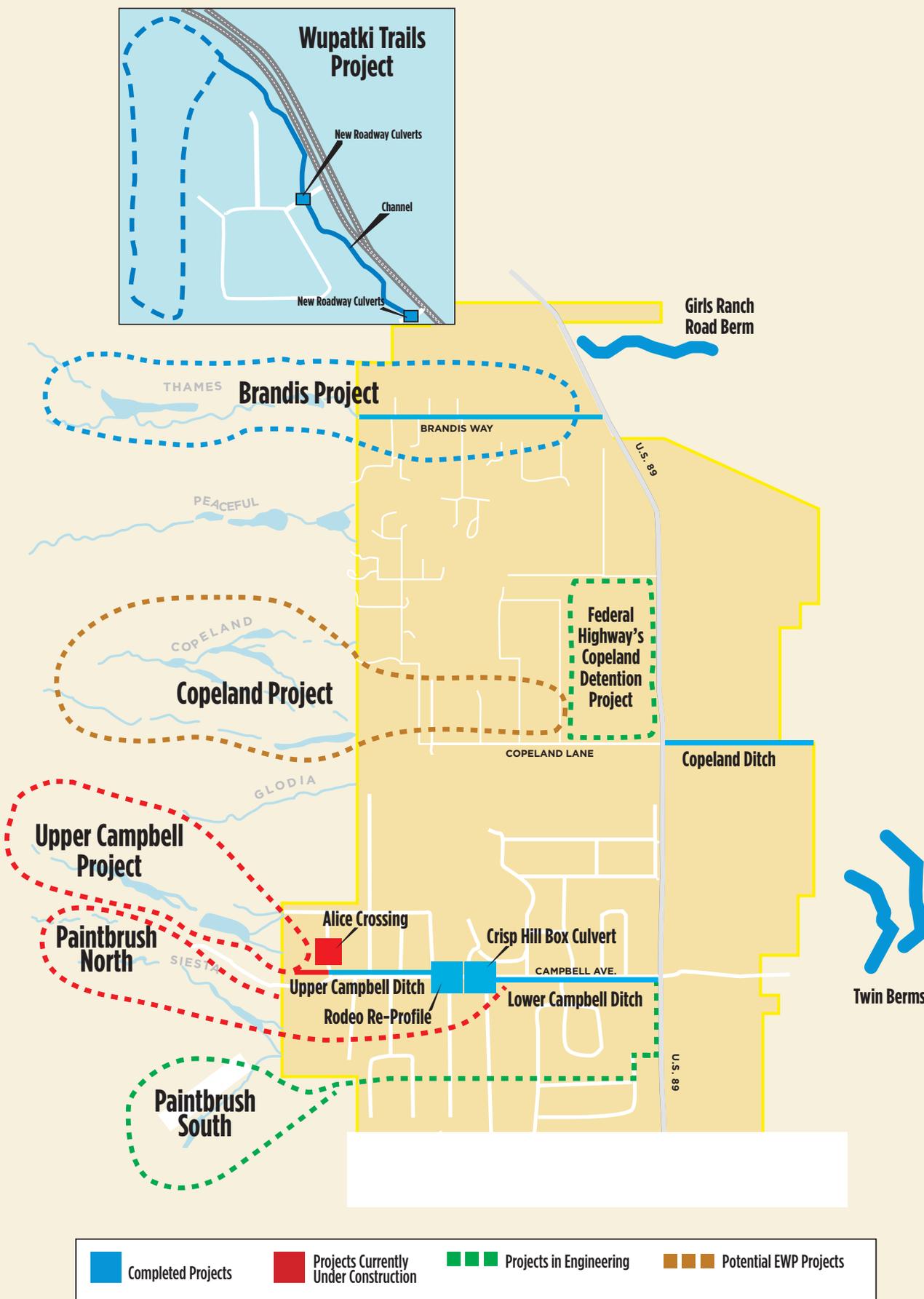


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 Through Partnership
 SCHULTZ COMMUNITY RECOVERY

For More Corridor Information...

For more information on these and other projects, please visit the Schultz Flood Webpage at www.coconino.gov/SchultzFloodInformation.

Projects Completed and Under Construction



By the Numbers – Construction Costs Only

Year & Project	Funding	Totals
2010/2011 Engineering Studies (Hydraulics, Hydrology, Cinder Lakes Capacity, Sediment Transport)	Coconino County Flood Control District \$200,000 Partners: FEMA/ U.S. Geological Survey/Arizona Division of Emergency Management • \$300,000	\$500,000
2011-2013 Mitigation Projects Engineering	Coconino County Flood Control District \$200,000 Partners: FEMA/Arizona Division of Emergency Management/ Natural Resources Conservation Service • \$1,000,000	\$1,200,000
2011 Copeland Ditch	Federal Highway Administration \$1,200,000	\$1,200,000
2011 Twin Berms	U.S. Forest Service • \$325,000	\$325,000
2012 Lower Campbell Ditch	Coconino County Flood Control District \$800,000 Partners: FEMA/Arizona Division of Emergency Management \$1,200,000	\$2,000,000
2012 Girls Ranch Road Berm	Coconino County Flood Control District \$150,000 Partners: Coconino Resource Advisory Council • \$150,000	\$300,000
2012 Rodeo Drive Reprofile	Coconino County Flood Control District \$150,000 Partners: FEMA/Arizona Division of Emergency Management \$150,000	\$300,000
2013 Brandis Way EWP Project (On- and Off-Forest)	Coconino County Flood Control District \$2,000,000 Partner: Natural Resources Conservation Service • \$1,800,000	\$3,800,000
2013 Wupatki Trails EWP Project (On- and Off-Forest)	Coconino County Flood Control District \$300,000 Partner: Natural Resources Conservation Service • \$700,000	\$1,000,000
2013 Upper Campbell Ditch (Construction & Repair)	Coconino County Flood Control District \$300,000 Partners: FEMA/Arizona Division of Emergency Management \$900,000	\$1,200,000
2013 Crisp Hill Box Culvert	Coconino County Flood Control District \$1,000,000	\$1,000,000
2014 Upper Campbell EWP Project (On- and Off-Forest)	Coconino County Flood Control District \$1,100,000 Partners: Natural Resources Conservation Service/U.S. Forest Service \$1,100,000	\$2,200,000
2014 Paintbrush North EWP Project (On- and Off-Forest)	Coconino County Flood Control District \$1,000,000 Partner: Natural Resources Conservation Service • \$1,800,000	\$2,800,000
2014 Paintbrush North Individual Lot Mitigation Measures (EWP)	Coconino County Flood Control District \$185,000 Partner: Natural Resources Conservation Service • \$75,000	\$260,000 ^{est.}
2014 Paintbrush South Individual Lot Mitigation Measures (EWP)	Coconino County Flood Control District \$380,000 Partner: Natural Resources Conservation Service • \$120,000	\$500,000 ^{est.}
2014 Alice Drive Crossing	Coconino County Flood Control District \$287,000 Partner: FEMA • \$163,000	\$450,000
2010 – 2014 Grand Total	Coconino County Flood Control District \$7,852,000 Partners: \$11,283,000	\$19,035,000



The Emergency Watershed Protection Program supports the Construction of long-term flood mitigation measures that reduce risks to life, property and public infrastructure in flood affected communities.



5600 Commerce
Flagstaff, AZ 86004

Resources

Schultz Flood Hotline (928) 679-8390 or (877) 679-8390
Schultz Flood Email..... schultzmitigation@coconino.az.gov
Schultz Flood Webpage..... www.coconino.az.gov/SchultzFloodInformation

National Weather Service – Schultz Flood Web Page
www.coconino.az.gov/SchultzWeatherInfo

Summit Fire.....	Dial 911 in an Emergency
(U.S. 89).....	(928) 526-1724
(Koch Field Road/Main Office)	(928) 526-9537
United States Forest Service Flagstaff Ranger District	(928) 526-0866
Coconino County Humane Society	(928) 526-1076
Second Chance Center for Animals	(928) 526-5964
Cinder Lake Landfill	(928) 527-1927
American Red Cross	(928) 779-5494
UniSource Energy Services	(928) 525-8103
Arizona Public Service (APS)	(800) 253-9405
CenturyLink.....	(800) 573-1311
Doney Park Water.....	(928) 526-1080
SuddenLink Communications	(928) 774-5336

For further information and additional resources in more detail:
www.coconino.az.gov/emergency • www.floodsmart.gov • www.fema.gov

The County has established a self-serve sandbag station located at the old Tumbleweed Store just north of the Summit Fire Station on Highway 89.

Properly filling and constructing a sand bag wall is important. For more information on sandbag walls and other flood preparation resources, please visit the Schultz Flood Web Page at www.coconino.az.gov/SchultzFloodInformation



United Way of Northern Arizona continues to coordinate efforts to provide flood area residents with assistance in preparing for the upcoming monsoon season. The County thanks United Way of Northern Arizona for organizing important volunteer events and providing an opportunity for the broader community to assist their neighbors in the Schultz Flood area.

This Monsoon Season, Staying Ahead of the Storm is as Easy as 1-2-3-4...

This monsoon season, Coconino County and the National Weather Service (NWS) are again committed to helping Schultz Flood area residents keep aware and informed about monsoon storms. Because these fast-moving storms can arrive with little or no warning, getting accurate weather and flood information as soon as possible is absolutely critical to your safety.

Following are four easy steps that will help to protect you, your family and your property during monsoon season:

- 1. Sign Up for CodeRED.** (See front cover for Information)
- 2. Get a Weather Radio for Storm Information.** A weather radio remains a very valuable tool for obtaining vital NWS weather information about incoming monsoon storm events. Please make sure that yours is in good working order and that you have a supply of fresh batteries readily available.
- 3. Regularly Check the NWS Schultz Flood Area Weather Link.** Check for the most current weather information warnings, radar and rain gauge data on the NWS “Schultz Flash Flood Decision Support Page” www.coconino.az.gov/SchultzWeatherInfo
- 4. Use Social Media for Flood-Related Information.** For those with smart phones and PC’s, social media is a great way to keep apprised of flood-related information and associated County response activities. We encourage everyone who uses social media to “Like” Coconino County on Facebook <https://www.facebook.com/CoconinoCounty> and to “Follow” us on Twitter: <https://twitter.com/#!/coconinocounty>.

Sign-up for Facebook & Twitter also is available on the bottom of the left navigation bar on all County web pages including the Schultz Flood Web Page at <http://www.coconino.az.gov/SchultzFloodInformation>.

Weather Terminology: Understanding NWS Watches, Warnings, and Advisories



FLOOD/FLASH FLOOD WATCH is issued when the expectation of a flood event has increased, but its occurrence, location, and/or timing is still uncertain. Usually are issued within 48 hours of the forecast flood event.

FLASH FLOOD WARNING is issued when flash flooding is occurring or is imminent. Individuals in the warned area should take immediate precautions to protect life and property.

SMALL STREAM FLOOD ADVISORY is issued for elevated river/stream flows, ponding of water in urban or other areas, and for flooding that is generally only an inconvenience (not life threatening) to those living in the affected area.

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