

**JOINT FLAGSTAFF CITY COUNCIL/COUNTY BOARD OF SUPERVISOR**  
**WORK SESSION AGENDA**

**JOINT CITY/COUNTY WORK SESSION**  
**MONDAY**  
**NOVEMBER 4, 2019**

**COUNCIL CHAMBERS**  
**211 WEST ASPEN AVENUE**  
**4:00 P.M.**

- 1. Call to Order**
- 2. Pledge of Allegiance and Mission Statement**

**MISSION STATEMENT**

*The mission of the City of Flagstaff is to protect and enhance the quality of life for all.*

**3. ROLL CALL**

*NOTE: One or more Councilmembers may be in attendance telephonically or by other technological means.*

CHAIRWOMAN FOWLER  
VICE-CHAIRMAN PARKS  
SUPERVISOR ARCHULETA

SUPERVISOR BABBOTT  
SUPERVISOR RYAN

MAYOR EVANS  
VICE MAYOR SHIMONI  
COUNCILMEMBER ASLAN  
COUNCILMEMBER MCCARTHY

COUNCILMEMBER ODEGAARD  
COUNCILMEMBER SALAS  
COUNCILMEMBER WHELAN

**4. Public Participation:**

*Public Participation enables the public to address the Council about an items that the agenda. Public Participation appears on the agenda twice, at the beginning and at the end of the work session. You may speak at one or the other, but not both. Anyone wishing to comment on an item that is on the agenda is asked to fill out a speaker card and submit it to the recording clerk. When the item comes up on the agenda, your name will be called. You may address the Council up to three times throughout the meeting, including comments made during Public Participation. Please limit your remarks to three minutes per item to allow everyone an opportunity to speak.*

- 5. Flagstaff-Coconino County Community Census Team Informational Update**
- 6. Museum Fire Incident and Flood Mitigation Update**
- 7. Informational Items To/From Chairman, Supervisors and County Manager, Mayor, Council and City Manager**

**8. Public Participation**

**9. Adjournment**

CERTIFICATE OF POSTING OF NOTICE

The undersigned hereby certifies that a copy of the foregoing notice was duly posted at Flagstaff City Hall on \_\_\_\_\_, at \_\_\_\_\_ a.m./p.m. in accordance with the statement filed by the City Council with the City Clerk.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Stacy Saltzburg, MMC, City Clerk

## CITY OF FLAGSTAFF

### STAFF SUMMARY REPORT

**To:** The Honorable Mayor and Council

**From:** Sara Dechter, AICP, Comprehensive Planning Manager

**Date:** 10/23/2019

**Meeting Date:** 11/04/2019



---

#### TITLE:

**Flagstaff-Coconino County Community Census Team Informational Update**

#### DESIRED OUTCOME:

Inform the City Council and Board of Supervisors on progress made on the community-led outreach for the 2020 Census. Either at the next Joint Meeting or at a special work session in early 2020, the team will have more details on direct action for the City's and County's elected bodies to help promote the Census and will be seeking their feedback on how to conduct this important community outreach.

#### EXECUTIVE SUMMARY:

The Flagstaff-Coconino County Community Census Team is working with the US Census Bureau and partners throughout the community to prepare for the Census 2020 outreach campaign and operations. In summer and fall 2019, the team has been providing public information to match the Census's "education" phase by raising awareness of the upcoming Census operations through community events, and by disseminating information on Census recruiting. The team is also preparing for the Awareness and Motivation messaging in Coconino County to be well-coordinated with the national, state and other local campaigns, especially the Phoenix-Maricopa County efforts.

#### INFORMATION:

See attachments

---

**Attachments:** Census Presentation

Flagstaff - Coconino County Community Census Team Fall 2019 Progress Report

**Minutes Attachments**

*No file(s) attached.*

---

# Coconino County/Flagstaff Joint County-City Work Session 2020 Census Update

November 4, 2019

Sara Dechter, Comprehensive Planning Manager, City of Flagstaff  
Kim Musselman, Director of Special Initiatives, Coconino County

Based on a presentation by:

**Kimberley Robinson**, *Partnership Specialist- Coconino, Navajo, Apache county*  
U.S. Census Bureau

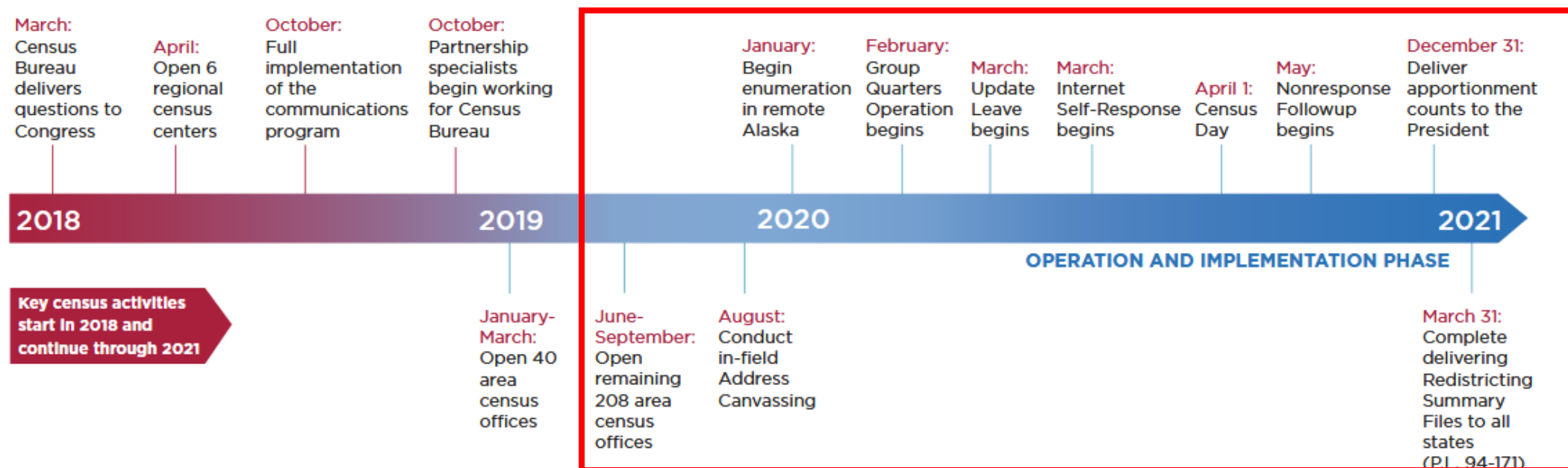
Shape  
your future  
START HERE >

United States®  
**Census**  
**2020**



# Road to the 2020 Census

## 2020 Census Operational Timeline



# Phased Approach to Communications

- Education Phase – 2018-2019
- **Awareness Phase – January 2020**
- **Motivation Phase – March – May 2020**
- **Reminder Phase – May – July 2020**
- Thank You Phase – Starts July 2020





# I COUNT. YOU COUNT. TOGETHER WE CAN OPEN DOORS TO BETTER SCHOOLS.

This is a critical year for Coconino County. By completing the 2020 US Census, you'll help make sure our services and infrastructure are properly funded. And as the first-ever online census, it's easier than ever. Learn more at [CoconinoNA.com](http://CoconinoNA.com).

iCount 2020



Shape  
your future  
START HERE >

2020CENSUS.GOV

United States®  
Census  
2020

# Subcommittees

- **Public Relations and Media**
- **Language**
- **Rural Outreach**
- **Business**
- **K12**
- **NAU**
  - NAU will have multiple on campus subcommittees





# What is within your circle of influence?



**Questions?**





**Shape  
your future  
START HERE >**

**United States®  
Census  
2020**



## **Flagstaff - Coconino County Community Census Team Fall 2019 Progress Report**

Every ten years, the decennial Census surveys U.S. communities to determine our Nation's population, establishing the baseline on which representation in government and federal funding will be allocated for the following decade. Recognizing the significance of the decennial Census to our growing region, the City of Flagstaff and Coconino County began partnering in March 2018 to make sure our community gets a complete count in the 2020 Census.

This effort began with commitments from the City and County, and the formation of a Complete Count Committee, called the Community Census Team, in 2018. Coconino County and City of Flagstaff each agreed to put forward \$150,000 in funding for FY's 2019 and 2020. In addition, other community partners were asked to join the team, and make in-kind contributions to the Committee's efforts. During the next year, over 20 local and regional organizations joined the team, becoming active partners in its outreach efforts.



*Figure 1: Census team intern, Carmen Sanchez, at a Festival of Science early childhood event*

The Community Census Team works alongside the United States Census Bureau (USCB). In the last 18 months, team members from the City and County staffs have participated in a Local Update of Census Addresses (LUCA), Participant Statistical Areas Program (PSAP) and New Construction Update. The team meets on a monthly basis and is developing a community outreach strategy that would include local media, events, social media, and participation by local partner agencies. In support of that development, Northern Arizona University's School of Communications engaged their Public Relations seniors in Spring 2019 in conducting research and developing a strategy for communicating Census information to NAU students.

On April 1, 2019, the County and City put out a joint proclamation declaring a Day of Action to officially kick-off Census outreach in the community. The Community Census Team hired a part-time Census Event & Volunteer Coordinator to assist in organizing events and community involvement, starting with a Census 2020 float in the Annual Greater Flagstaff Chamber of Commerce 4<sup>th</sup> of July Parade. A volunteer intern from NAU has also been brought onto the team. The City of Flagstaff is working to convert the volunteer into a federal-work study soon.

In the late summer of 2019, the team began forming sub-committees to address outreach to particular hard-to-reach demographics. Sub-Committees for Public Relations and Media Language Outreach, Rural Outreach, and Homeless Outreach have begun meeting, and K-12 outreach, and Business Outreach will start meeting before the end of the year. The team also formed a set of sub-committees to work on a variety of issues for Outreach to NAU students.

The team is also sharing information on recruiting for Census enumerators with partners and assisting the Census in connecting to potential employees. The week of October 21, the Census launched a nationwide recruitment effort and held an in-person recruitment events throughout Coconino County, including at the Joe C. Montoya Senior Center in Flagstaff. Census Recruiting staff is sharing information on hard to fill positions, geographic diversity of applicants and targets for language skills with the team for assistance with outreach and networking for talent.

In June, the Community Census Team entered into a contract with Riester, an advertising agency that is also working with the Maricopa Association of Governments, to develop and execute a PR campaign to promote public awareness of the Census. The team is developing and refining print and promotional materials to distribute at events. The CCC had tables at the Murdoch Center Juneteenth event, the League of Women Voters' Votes for Women event, the Coconino County Fair, the CCC&Y Early Childhood STEAM Fair, NAU Family Weekend, the Western Navajo Fair, and the City of Flagstaff Indigenous People's Day Celebration.

In the fall of 2019, the Community Census Team will continue its work by finalizing our PR campaign and building a schedule of media releases and events to keep the public informed and enthused about participating in the 2020 Census. The team will continue to work through targeted sub-committees to develop outreach strategies and materials for the array of hard-to-reach populations in Coconino County.



*Figure 2: Kim Musselman, Coconino County Director of Special Initiatives, watching children at the Coconino County Fair play custom districting activity*



## **CITY OF FLAGSTAFF**

### **STAFF SUMMARY REPORT**

**To:** The Honorable Mayor and Council  
**From:** Scott Overton, Streets Section Director  
**Co-Submitter:** Andy Bertelsen, Public Works Director  
**Date:** 10/31/2019  
**Meeting Date:** 11/04/2019



---

**TITLE:**  
**Museum Fire Incident and Flood Mitigation Update**

#### **DESIRED OUTCOME:**

Provide the Coconino County Board of Supervisors and the City of Flagstaff City Council an update on the Museum Fire and Flooding Mitigation efforts and provide the community direction and guidance for the coming year.

#### **EXECUTIVE SUMMARY:**

The Museum Fire occurred on June 23rd in the Dry Lake Hills area. The wildfire and subsequent flooding mitigation efforts have had a tremendous impact on the community. We will review the fire incident and flood mitigation projects that have been completed to date and provide insights to the future activities. In addition, we will be providing community guidance and direction as it relates to the flood control district desires and operational objectives in the coming year.

#### **INFORMATION:**

Attached Presentation and supporting staff will be present to address questions and concerns.

---

**Attachments:** Museum Fire City County Meeting Presentation

#### **Minutes Attachments**

*No file(s) attached.*

---



**COCONINO**  
COUNTY ARIZONA  
**FLOOD CONTROL DISTRICT**



Museum Flood Area

# ***Museum Fire & Flood Area Update***

***Monday, November 4, 2019***

***Joint City Council & Board of Supervisors Meeting***



**COCONINO**  
COUNTY ARIZONA  
**FLOOD CONTROL DISTRICT**

# ***Presentation Overview***

***Lucinda Andreani***

***Coconino County Flood Control District  
Administrator***

***Andy Bertelsen***

***City of Flagstaff Public Works Director***



## ***Museum Fire***



***U.S. Forest Service***



# ***EOC Operations***



***Todd Whitney***

***Director of Emergency Management***

# ***County/City***

## ***Emergency Operations Center***

- **County/City Staff in the EOC**
- **City/County Policy Group**
  - **Provided EOC Policy Guidance**
- **Focus – Evacuation  
Communication, Media, Public  
Communication**
- **Incident Command manages fire**





# ***One County Response with Statewide & Local Partnerships***







# ***Flood Control District Flood Mitigation Experience***





# ***Flood Control District Experience Applied to Museum Flood Response***

- **Schultz Fire and Flood Mitigation (2010 – 2015)**
  - Over \$50 million in response & mitigation costs
- **Slide Fire and Flood Mitigation (2014)**
  - Over \$700,000 in response & mitigation costs
- **North Schultz Flood (2018 – 2019)**
  - About \$2 million in response & mitigation costs
- **Museum Fire and Flood Mitigation (2019)**
  - \$1.8 million in response & mitigation costs

***Top Flood Risk Assessment Team***





**COCONINO**  
COUNTY ARIZONA

**FLOOD CONTROL DISTRICT**



***Museum Flood Area Mitigation***

# ***Museum Fire = Serious Flood Risk***

- Burned 1,961 acres
- Impacted the Spruce Avenue Watershed
- 52% of the watershed burned
- Of the total area burned, 53% burned severely and moderately = hydrophobic soils
- Much of the area is steep slopes





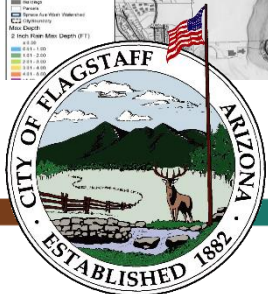
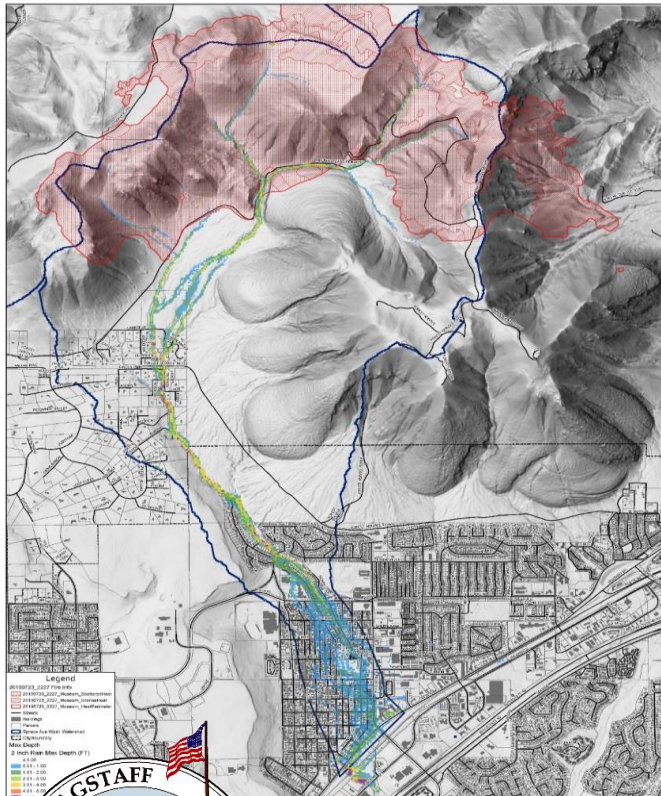
# ***Museum Fire Flood Impacts***

- Spruce Ave. Watershed flows through two rural developments in the County and three neighborhoods in the City of Flagstaff affecting over 400 homes and approximately 50 businesses
- Total property valuation is \$303,000,000

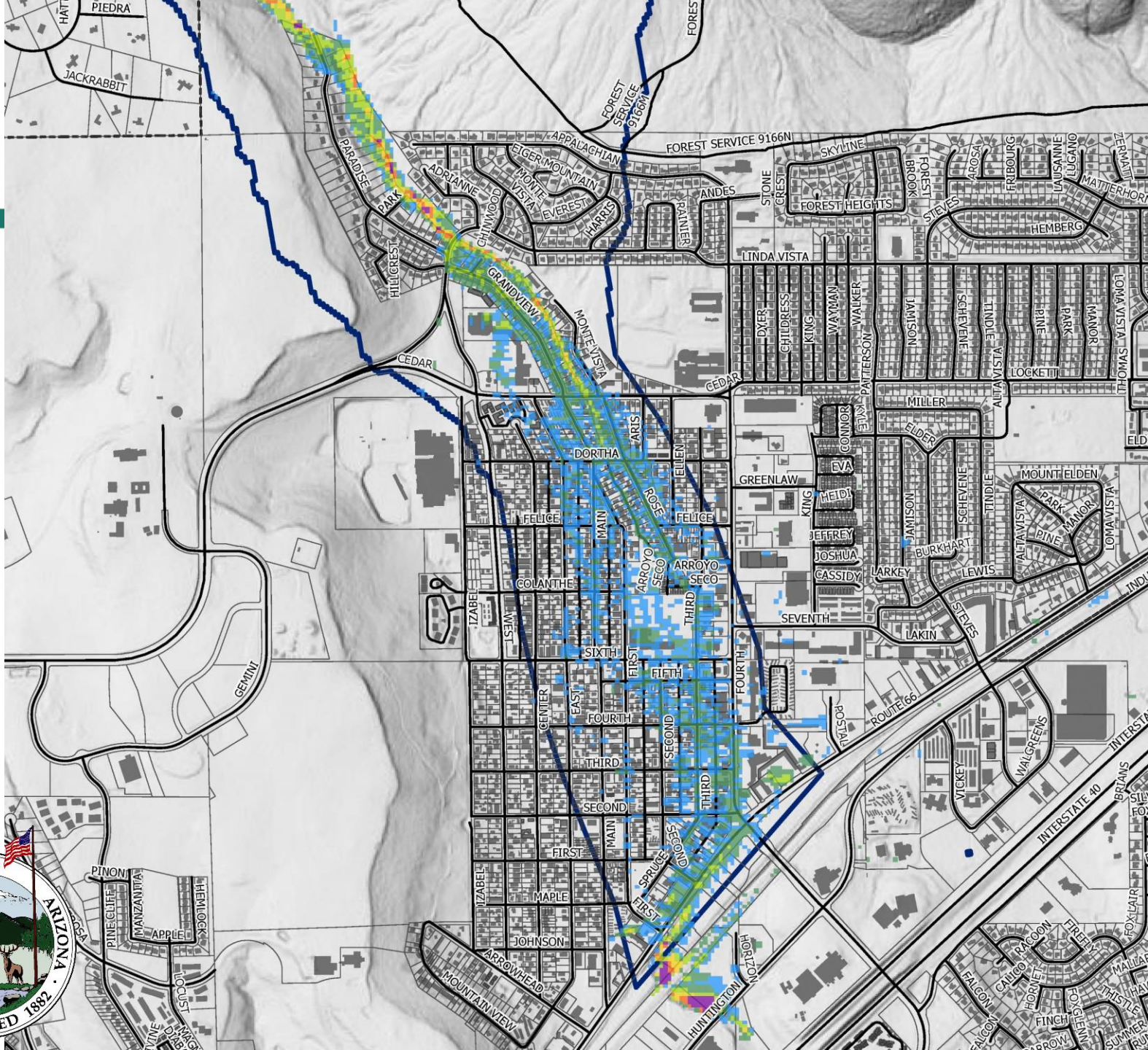


# Science-Based Approach to Flood Mitigation

- FEMA funded study identified Spruce Ave. Watershed at high risk for post-wildfire flooding
- Within 24 hours of the fire's ignition, FCD worked with JE Fuller to update flood model using the best science available
- Within 48 hours we understood hazards and developed the emergency flood mitigation measures plan
- The plan was implemented beginning with the most hazardous area and addressed the type and level of hazard in each area







# ***Flood Mitigation Overview***

- **Mitigation began with assessments of high risk properties by County and City staff persons and private engineers to determine mitigation strategies, where feasible**
- **Flood mitigation measures included sand bags and concrete & water barriers to mitigate impacts**
- **Signed Cooperator Agreements (CA) required for the installation of all flood mitigation measures**
- **Cleared channels of vegetation and removed debris from flood paths**





# ***Flood Mitigation: Barriers***





# ***Flood Mitigation: Sandbags***





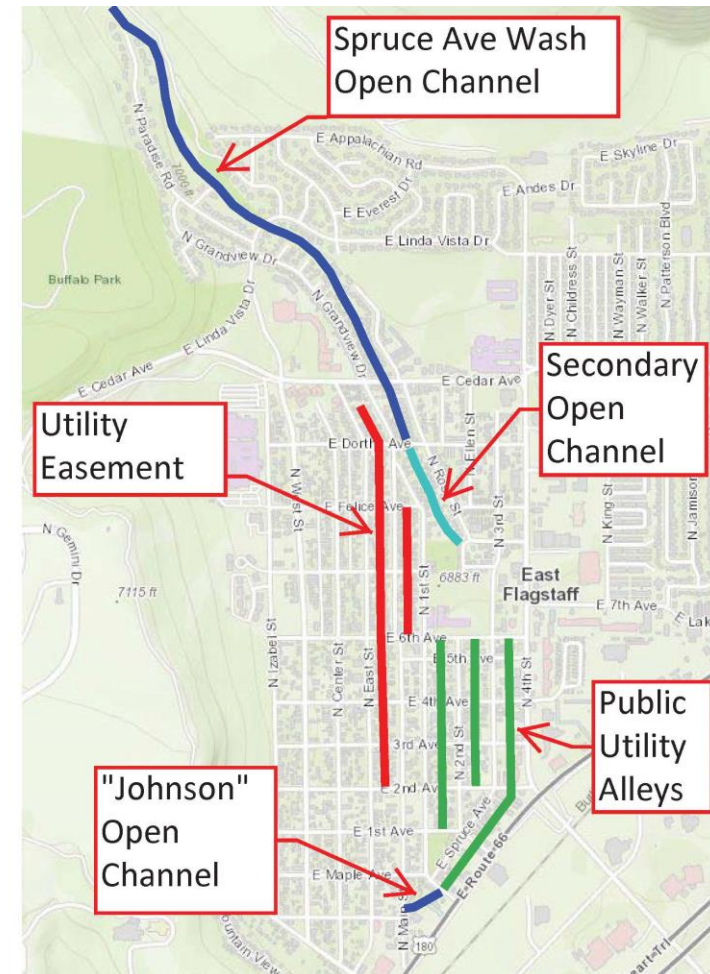
# ***Vegetation Removal***



# ***Vegetation Removal***

## Miles Cleared:

- **1.3 mi – Open Channels**
- **1.2 mi – Public Utility Alleys**
- **1.0 mi – Utility Easements**





# Mitigating Flood Debris





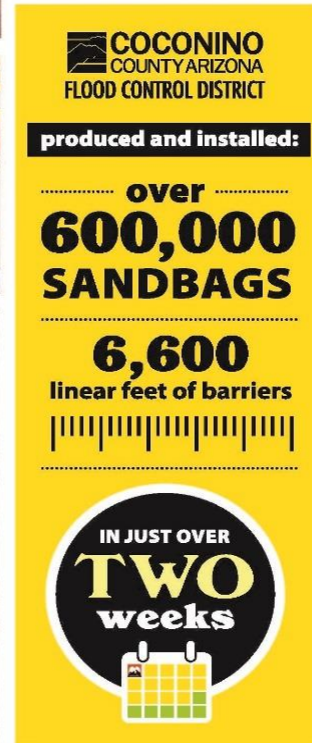
# ***Utilities Protection***





# ***Museum Flood Mitigation***

- Mitigated over 400 homes and about 35 businesses in just over two weeks
- 6,600 feet of concrete & water barriers
- Over 600,000 sand bags
- 3.5 miles of debris & vegetation removal
- 15 Community Meetings
- Established Flood Monitoring System
- FCD Cost = \$1.8 Million
- City Cost = \$765,000



# ***The Power of Partnerships***



United Way  
of Northern Arizona

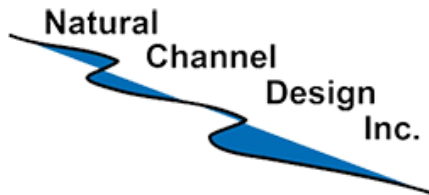


**NAU**  
NORTHERN  
ARIZONA  
UNIVERSITY

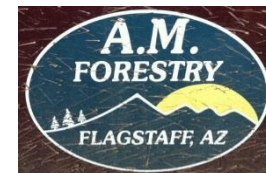




# The Power of Partnerships



An Employee-Owned Company







 **COCONINO**  
COUNTY ARIZONA  
FLOOD CONTROL DISTRICT

# ***Communications & Outreach Efforts***



# Community Meetings

- 15 Community Meetings





# Museum Fire Flood Area Webpage

[www.coconino.az.gov/MuseumFire/FloodArea](http://www.coconino.az.gov/MuseumFire/FloodArea)

Sign Up for Emergency Notifications!

Sandbag Information

What to Do After a Flood

Food Safety After a Flood

Water Diversion: Important Information

Flood Risk Maps

Flood Insurance Information

Home > Your Government > Departments (P-Z) > Public Works > Flood Control District > Museum Fire & Flood Area

## Museum Fire & Flood Area

What's News...

Museum Fire closure area to be reduced Friday FLAGSTAFF, AZ, Oct. 3, 2019 — The Coconino National Forest is reducing the size of the area closure for the Museum Fire on Friday (Oct. 4) to allow for increased access and recreation on parts of Mt. Elson. [Additional Info.](#)

Museum Flood Area Emergency Alert Process

Museum Flood Area: Frequently Asked Questions

Proceso de alerta de emergencia del área de inundación del museo

Museum Fire Scar: Rain Gauge Data & Map

National Flood Insurance Program: Flood Insurance Information

Preliminary Museum Fire Flood Risk Maps

Museum Fire Scar Weather Info.

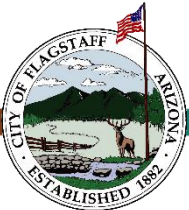
Social Media & Important Links

Recursos

NWS Flash Flood Handout

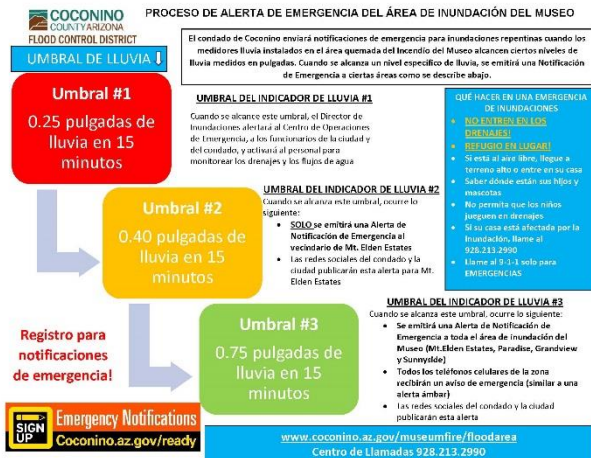
Sandbag Information

Museum Fire Closure Order & Map





# Information Materials (English & Spanish)



**FLOOD WARNING**

A Flood Warning is issued when flooding is happening or will happen soon. Some roads will be flooded.

Move to higher ground.  
Never drive through flooded roads.

**FLOOD WATCH**

A Flood Watch is issued when flooding is possible.

Stay tuned to radio/TV, follow weather.gov and be ready to seek higher ground.

Learn more at [weather.gov/flood](http://weather.gov/flood).

**Weather Forecasts:**  
<http://www.weather.gov/flagstaff>

**NATIONAL WEATHER SERVICE**

**take action.**

**be prepared.**

**Enable Wireless Emergency Alerts on your smartphone to receive flood warnings issued by the National Weather Service. Click on "National Weather Service" and "Severe Threats" under Settings.**

**AVISO DE INUNDACIÓN**

Un Aviso de Inundación es emitido cuando la inundación está ocurriendo o ha de ocurrir pronto. Algunas carreteras quedarán inundadas.

Muévase a un lugar alto.

Nunca conduzca a través de carreteras inundadas.

**VIGILANCIA DE INUNDACIÓN**

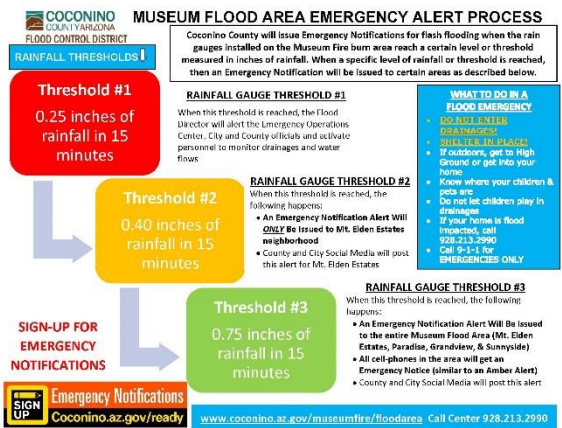
Una Vigilancia de Inundación es emitida cuando una inundación es posible.

Manténgase sintonizado a la radio/TV, infórmese a través de weather.gov y esté listo para moverse a un lugar alto en caso de ser necesario.

Aprenda más en [weather.gov/flood](http://weather.gov/flood).

**esté preparado.**

**SIGN-UP FOR EMERGENCY NOTIFICATIONS**  
Coconino.gov/ready



**SOCIAL MEDIA AND IMPORTANT LINKS**

**Emergency Notifications**  
Coconino.gov/ready

**Flood Website:** [www.coconino.gov/museumfire/floodarea](http://www.coconino.gov/museumfire/floodarea)  
**Flood Email:** [coconino.flood@coconino.gov](mailto:coconino.flood@coconino.gov)  
**Call Center:** (928) 213-2990

**Fire Email:** [911@coconino.gov](mailto:911@coconino.gov)  
**Incident Web Site:** [www.coconino.gov/incident](http://www.coconino.gov/incident)  
**Coconino County Website:** [www.coconino.gov](http://www.coconino.gov)  
**Flagstaff City Website:** [www.flagstaff.gov](http://www.flagstaff.gov)  
**Coconino National Forest Website:** [www.fs.fed.us/coconino](http://www.fs.fed.us/coconino)  
**Smoke Outlook:** <http://coconino.nv.gov/coconino.nv.gov/central/central.aspx>

**Museum Fire Standing Sites**

**Joint Veterans Little League Field**  
the corner of Spruce St & 1st Avenue

**Joint Veterans Little League Field**  
the corner of Spruce St & 1st Avenue

**Test Flagstaff to 4144 to donate**  
Test volunteers to 5155 to volunteer

**CITY OF FLAGSTAFF ARIZONA**  
ESTABLISHED 1882

**COCONINO COUNTY ARIZONA FLOOD CONTROL DISTRICT**

**MUSEUM FLOOD RISK ADVISORY**  
July 27, 2019

**Museum Flood Area Property Owners Must be Aware of the Following:**

- There is a strong likelihood of hazardous rising flooding as a result of the Museum Fire. The Coconino County Flood Control District has conducted a preliminary analysis of the flood risk created by the Museum Fire and determined that the area shown on the map is at risk for hazardous fast flooding. It must be noted that flood waters can create unpredictable changes, which can create new flood paths.
- The Flood Control District is implementing and has implemented flood mitigation measures to reduce flooding impacts resulting from the Museum Fire. These measures, which were implemented with the consent of affected property owners wherever they were located on private land, will only handle the more regular, smaller type storm events, not large storm events. The measures implemented are based upon our best available preliminary data. The flood mitigation measures being implemented are not a complete protection from post-fire flooding but implemented as emergency response measures.
- The Flood Control District strongly encourages all property owners and occupants to take suitable precautions to mitigate flooding impacts to their properties and themselves from injury or loss of life due to flooding. The determination of what specific precautions are suitable for your particular property is your responsibility. You may wish to consult an engineer of your choice.
- The Flood Control District strongly encourages all home owners within the expected flood area to purchase flood insurance. A separate flood insurance policy through the National Flood Insurance Program (NFIP) covers damage to your home and belongings caused by flooding with a specific cap on the amount of damages. Standard homeowners' insurance does NOT cover flood damage. More information is available at [www.floodsmart.gov](http://www.floodsmart.gov) and at [www.coconino.gov/flood](http://www.coconino.gov/flood).
- Within the Museum Flood Risk Area there are formal and informal drainage channels. Residents and others should NOT enter these flood channels nor allow children or pets into these channels. Floodwaters may enter the neighborhoods with very little or no notice.
- Please review the map (back side of this sheet) of the Museum Flood Risk Area. This map is based on information available as of July 26, 2019.

The important information in this Notice is provided to Museum Flood Area property owners so that they can take suitable precautions to protect themselves and their properties. This Notice is intended to comply with ARS 48-3603 (J).

For more information regarding Museum Flood Area Flood Mitigation and mitigation, please visit [www.coconino.gov/museumfire/floodarea](http://www.coconino.gov/museumfire/floodarea)

**COCONINO COUNTY ARIZONA FLOOD CONTROL DISTRICT**

**RIESGO DE LA INUNDACIÓN DEL MUSEO CONSULTIVO: 27 Julio 2019**

Proprietarios de la zona de inundación del museo debe tener en cuenta lo siguiente:

- Existe una fuerte probabilidad de inundaciones peligrosas resultantes del incendio del Museo. El Distrito de Control de Inundaciones del condado de Coconino realizó un análisis preliminar del riesgo de la inundación creado por el incendio del Museo y determinó que el área que se muestra en el mapa está en riesgo de inundaciones peligrosas. Debe tenerse en cuenta que las aguas de inundación pueden crear cambios impredecibles, lo que puede crear nuevas rutas de inundación.
- El Distrito de Control de Inundaciones está implementando y ha implementado medidas de mitigación de inundaciones para reducir los impactos de inundaciones resultantes del incendio del Museo. Estas medidas, que se aplicaron con el consentimiento de los propietarios afectados dondequiera que se encontraban en terrenos privados, solo se manejarán los eventos de tormenta más regulares y más pequeños, no los grandes eventos de tormenta. Las medidas implementadas se basan en nuestros mejores datos preliminares disponibles. Las medidas que se están aplicando después de los incendios forestales no es la suficiente protección en contra de la inundación, solo es una implementación que se ha tomado como una medida rápida de emergencia.
- El Distrito de Control de Inundaciones alienta encarecidamente a todos los propietarios y ocupantes a tomar las precauciones necesarias para mitigar los impactos de inundaciones en sus propiedades y a sí mismos contra lesiones o pérdidas de vidas debido a inundaciones. La determinación de qué precauciones específicas se requieren para su propiedad es su responsabilidad. Es posible que desee consultar a un ingeniero de su elección.
- El Distrito de Control de Inundaciones alienta a todos los propietarios de viviendas dentro del área de inundación esperada a comprar seguro contra inundaciones. Las pólizas de seguro contra inundaciones ofrecidas a través del Programa Nacional de Seguro contra Inundaciones (NFIP) cubren daños a su casa y pertenencias causados por inundaciones con un tope específico sobre la cantidad de daños. El seguro estándar para propietarios NO cubre los daños causados por las inundaciones. Hay más información disponible en [www.floodsmart.gov](http://www.floodsmart.gov) y en [www.coconino.gov/flood](http://www.coconino.gov/flood).

Dentro de la zona de riesgo de inundaciones del Museo hay canales de drenaje formales e informales. Los residentes y otros NO deben entrar en estos canales de inundación ni permitir que los niños o mascotas en estos canales. Las inundaciones pueden entrar en los vecindarios con muy poca o ningún aviso.

Por favor, revise el mapa (en el reverso de esta hoja) de la zona de riesgo de inundaciones del Museo. Este mapa se basa en la información disponible a partir del 26 de julio de 2019.

La información importante de este Aviso se proporciona a los propietarios de la zona de inundación del Museo para que puedan tomar las precauciones adecuadas para protegerse a sí mismos y a sus propiedades. Este Aviso está destinado a cumplir con ARS 48-3603 (J).

Para obtener más información sobre la mitigación y mitigación de inundaciones en el área de inundaciones del Museo, visite [www.coconino.gov/museumfire/floodarea](http://www.coconino.gov/museumfire/floodarea)

**COCONINO COUNTY ARIZONA FLOOD CONTROL DISTRICT**

**Emergency Notifications**  
Coconino.gov/ready

**RECURSOS**

**Sitio Web de Inundación:** [www.coconino.gov/museumfire/floodarea](http://www.coconino.gov/museumfire/floodarea)  
**Correo Electrónico de Inundación:** [coconino.flood@coconino.gov](mailto:coconino.flood@coconino.gov)  
**Centro de Llamadas:** (928) 213-2990

**Correo Electrónico de Inundación:** [coconino.flood@coconino.gov](mailto:coconino.flood@coconino.gov)  
**Sitio Web del Condado:** [www.coconino.gov](http://www.coconino.gov)  
**Sitio Web de la Ciudad:** [www.flagstaff.gov](http://www.flagstaff.gov)  
**Sitio Web del Bosque Nacional:** [www.fs.fed.us/coconino](http://www.fs.fed.us/coconino)  
**Sitio Web del Museo:** [coconino.nv.gov/coconino.nv.gov/central/central.aspx](http://coconino.nv.gov/coconino.nv.gov/central/central.aspx)

**Museum Fire Standing Sites**

**Joint Veterans Little League Field**  
the corner of Spruce St & 1st Avenue

**Joint Veterans Little League Field**  
the corner of Spruce St & 1st Avenue

**Test Flagstaff to 4144 to donate**  
Test volunteers to 5155 to volunteer

**Twitter:** @MuseumFireInfo, @CoconinoCounty, @CityofFlagstaff, @CoconinoNF

**Facebook:** @MuseumFireInfo, @CoconinoCounty, @CityofFlagstaff, @MuseumFireInfo, @USForestServiceCoconino

**United Way:** Test Flagstaff to 4144 to donate, Test volunteers to 5155 to volunteer



COCONINO  
COUNTY ARIZONA

FLOOD CONTROL DISTRICT

# Recent Communication to Residents & Property Owners



Museum Flood Area



COCONINO  
COUNTY ARIZONA  
FLOOD CONTROL DISTRICT



Para Español, ver atrás

October 29, 2019

Dear Museum Flood Area Resident,

On behalf of the Coconino County Flood Control District (FCD) and the City of Flagstaff (City), we would like to again thank you and your neighbors for your cooperation and community spirit during the Museum Fire, and especially during installation of emergency flood mitigation measures in your neighborhood. More than 600,000 sandbags and 6,800 linear feet of barriers were installed throughout the Museum Flood area by the FCD's team in just over two weeks. This was a monumental undertaking, one which would have been impossible without your support.

As we move from the driest monsoon season on record into autumn, we want to provide you with a brief update regarding the importance of keeping these emergency flood mitigation measures in place as well as some possible long-term on-forest flood mitigation projects that are underway or being considered for the Museum Flood area. Please note that, for the reasons outlined below, **the FCD and City strongly recommend keeping your flood mitigation in place through the 2020 monsoon season.**

#### Emergency Flood Mitigation Measures

First and foremost, it's very important to understand that the threat of flooding is real and that your property will remain at high risk for post-wildfire flooding for several years. Although we are fortunate to have not experienced any flooding this summer, it is equally important to note that the National Weather Service classified the 2019 monsoon season as the driest since record keeping began in 1898 (as recorded at the Flagstaff Airport). The San Francisco Peaks area received only about 20 percent of its normal rainfall amount during this monsoon season. The Museum Fire Burn Scar received only about 2.5 – 3.7 inches of rainfall during the 2019 monsoon season, which is about 35 percent of normal monsoon precipitation. In addition, rainfall that did fall on the burn scar was light to moderate in character and therefore did not create significant post-wildfire flooding downstream.

Given this very dry monsoon season, some residents might wonder if they need to keep their emergency flood mitigation measures in place. They should. Those considering removing their measures also need to consider the following:

- ❖ Because of the historically dry 2019 monsoon season, the flood mitigation measures in your neighborhood were not tested against anything close to normal rainfall conditions.
- ❖ The placement of flood mitigation in your neighborhood was based on science and the lessons learned from the Schultz and Slide fires. The science included a previously conducted FEMA-funded County-wide post-wildfire flood risk study, which created a flood model for the Spruce Avenue watershed (the watershed impacted by the Museum Fire). This watershed was identified



Museum Flood Area

29 de octubre 2019

Estimado/a residente en el área de inundación del incendio Museo,

En nombre del Distrito de Control de Inundaciones del Condado de Coconino y la Ciudad de Flagstaff, nos gustaría agradecerle de nuevo a usted y a sus vecinos por su cooperación y espíritu comunitario durante el incendio del Museo, y especialmente durante la instalación de medidas de mitigación contra inundaciones en su vecindario. Más de 600,000 sacos de arena y 6,800 metros lineales de barreras fueron instaladas en el área de inundación por el equipo del Distrito de Control de Inundaciones en poco más de dos semanas. Esta fue un proyecto enorme, que no habría sido posible sin su apoyo.

A medida que nos adentramos en el otoño con la seca temporada de monzones en registro, queremos ofrecerle una breve actualización acerca de la importancia del mantener medidas de mitigación en su propiedad, así como algunas de las soluciones que están en marcha o que están siendo consideradas para el Museo área de inundación.

En su cuenta que, por las razones expuestas abajo, **el Distrito de Control de Inundaciones del Condado y la Ciudad recomiendan encarecidamente mantener su mitigación de inundaciones (sacos de arena) en su lugar durante la temporada de monzones 2020.**

#### Medidas de Mitigación de Inundaciones de Emergencia

En primer lugar, es muy importante entender que la amenaza de inundaciones es real y que su propiedad permanecerá en alto riesgo de inundación después de incendios forestales durante varios años. Aunque tenemos la suerte de no haber experimentado ninguna inundación este verano, es igualmente importante recordar que el Servicio Meteorológico Nacional clasificó la temporada de monzones 2019 como el más seco desde que comenzó el registro en 1898 (como se registra en el Aeropuerto de Flagstaff).

El área del Pico de San Francisco recibió solo alrededor del 20 por ciento de su cantidad normal de lluvia durante esta temporada de monzones. La cuenca de quemadura de fuego recibió sólo alrededor de 2.5 – 3.7 pulgadas de lluvia durante la temporada de monzones 2019, que es alrededor del 35 por ciento de la precipitación normal del monzon. Además, las precipitaciones que cayeron sobre la cuenca de quemaduras eran de carácter ligero a moderado y, por lo tanto, no crearon una inundación significativa.

Aunque esta temporada de monzones muy seco, algunos residentes podrían preguntarse si necesitan mantener sus medidas de mitigación de inundaciones de emergencia en su lugar. **Deberían.** Aquellos que consideran la posibilidad de eliminar sus medidas también deben tener en cuenta lo siguiente:

- ❖ Debido a la temporada de monzones históricamente seco 2019, las medidas de mitigación de inundaciones en su vecindario no se probaron contra nada cercano a las condiciones normales de lluvia.
- ❖ La colocación de la mitigación de inundaciones en su vecindario se basó en la ciencia y las lecciones aprendidas de los incendios de Schultz y Slide. La ciencia incluyó un estudio de riesgo de inundación después de un incendio forestal financiado por FEMA, que creó un modelo de inundación para la cuenca





# **2019 “Non-Soon”**

- Threat of flooding is real properties will remain at high risk for post-wildfire flooding for several years
- The National Weather Service classified the 2019 monsoon season as the driest since record keeping began in 1898 (as recorded at the Flagstaff Airport).
- The San Francisco Peaks area received only about 20 percent of its normal rainfall amount during this monsoon season.
- The Museum Fire Burn Scar received only about 2.5 – 3.7 inches of rainfall during the 2019 monsoon season, which is about 35 percent of normal monsoon precipitation.
- Rainfall that did fall on the burn scar was light to moderate in character and therefore did not create significant post-wildfire flooding downstream.





# ***Flood Mitigation Recommendations***

- **The FCD and City strongly recommend keeping your flood mitigation in place through the 2020 monsoon season**
- We do not yet know how winter snow or spring rain runoff potential impacts... a rain-on-snow event could cause very serious flooding in the Museum Flood Area.



# ***Flood Mitigation Recommendations***

- Removal of any section of mitigation from an individual property may compromise the effectiveness of this system and could result in adverse flooding effects to adjacent properties – the private property owner can be held responsible for any damage
- The City team is working to create a modified snow removal operations strategy that will help to minimize the impact of installed mitigation on snow removal operations. The County is committed to assisting the City with those operations if needed.



# ***Keep your Sand Bags!***

- Please Do Not Dispose of Your Sandbags!
- Disposal of sandbags is owner's responsibility.
- Sandbags cannot be put in City trash cans or placed curbside for City bulk pickup.
- Sandbags can be taken to the Cinder Lake Landfill or if they are in good shape, returned to the sandbag station at 2625 N. King Street.
- Protect Your Sandbags! Cover them with plastic







 **COCONINO**  
COUNTY ARIZONA  
FLOOD CONTROL DISTRICT

# ***Going Forward: Long-Term Mitigation***



# ***On-Forest Measures***

- **FCD secured USFS grant to construct on-forest measures**
- **FCD working with large private property owner and NRCS to potentially construct similar measures on private parcel**





# ***Linda Vista Culvert***

## ***Emergency Protective Measures***

- **Location:** Just north of the Cedar Safeway on E. Linda Vista Dr. between N. Paradise Rd. and south of N. Adrienne Way at the E. Linda Vista Dr. and the Spruce Ave. Wash drainage crossing
- **Rationale:** The Spruce Avenue Wash Watershed conditions drastically changing as a result of the Museum Fire and the existing stormwater inlet capacity being undersized for the conditions of the altered watershed.





# ***Linda Vista Culvert***

## ***Emergency Protective Measures***

- **Goal:** This project will increase the capacity of the culvert at Linda Vista Drive and the Spruce Avenue Wash allowing more stormwater through the City stormwater infrastructure and reducing the amount of stormwater on City roadways.
- **Status:** City is currently reviewing the 95% phase of the Design & Construction of the culvert is planned for early December



# ***Continuing Vigilance***

- Continue Flood Monitoring
- Communication slated for June 2020 in preparation for 2020 Monsoon Season
- Questions or concerns – email:

[museumfloodinfo@coconino.az.gov](mailto:museumfloodinfo@coconino.az.gov)





**COCONINO**  
COUNTY ARIZONA  
FLOOD CONTROL DISTRICT

# ***Discussion***

