



FY2025 Phoenix Floodplain Management Plan (ST83140150)

Committee Meeting #2

February 5, 2025, at 9:00 AM – 11:00 AM

MEETING MINUTES

- 1. Safety moment – 3 min**
- 2. Overview of FMP Mtg #1: Flood Hazard Identification – 20 min**
 - a. Review CRS and Activity 510
 - b. Group Discussion of Flood Hazards
- 3. Impacts of Hazards – Assess the Problem – 15 minutes**
 - a. Life Safety
 - b. Public Health
 - c. Critical Facilities and Infrastructure
 - d. Economy
 - e. Natural Floodplain Functions
- 4. Impacts of Hazards During Storms - Assessing the Problem (Step 5) – 30 min**
 - a. Breakout Exercise – Groups to focus on each group's area
 - b. Mark up maps and use Worksheet to identify flooding problems
- 5. Break – 10 min**
- 6. Group Report Out and Discussion – 45 min**
 - a. Description of impact hazards identified have on:
 - i. Life, safety, health and the need for warning and evacuation
 - ii. Public health, including health hazards to individuals from flood waters and mold
 - iii. Critical facilities and infrastructure
 - iv. City's economy and major employers
 - b. Areas that provide natural floodplain functions
 - c. Description of development, redevelopment, population trends
 - d. Impacts of future flooding conditions on people, property, and natural floodplain functions from:
 - i. Changes in floodplain development and demographics
 - ii. Development in the watershed
 - iii. Climate change

Discussion:

South Phoenix Group

Description of impacts:

- Floodplains near South Mountain are not delineated.
- Golf courses in the area are being redeveloped and increasing impervious areas.
- Fire station #57 has had flooding along Dobbins
- Wildfires – The mountain has low brush and fires are typically easily contained.
- Future SR30 connection freeway may have potential impacts
- Local flooding
- County islands, there is a disconnect between city and county and infrastructure isn't always continuous.

2231 East Camelback Road, Suite 350
Phoenix, Arizona 85016
602-381-4400

- Other fires along the Salt River as well.
- Sand and gravel pits
- Infill flooding
- A trend of funding being allocated for flooding issues in a reactive manner rather than proactive. Once the storm passes, there is no motive to allocate funding and it gets put towards more pressing issues.

Central Phoenix Group

Description of impacts:

- We identified places on the map where these problems occur.
- This area includes critical facilities, local flooding, most floodplains are delineated.
- The whole area is a sheet flow type area, some areas in alluvial fan off mountain range.
- Economic areas include Biltmore and central/midtown Phoenix area.
- This area has one levee but is downstream from several dams.
- A lot of this area was developed before 1980 before retention requirements and were using older building principles and codes.
- Much of the flooding is due to lack of infiltration, lack of retention, and small washes not being properly maintained.

North Phoenix Group

Description of impacts:

- Local flooding from high intensity storms.
- The age of the developments, south area developed before certain design standards.
- Mountain to urban landscape.
- Developments on natural flood plains
- Canal embankments, especially with the mountains north of the CAP Canal.
- Small pockets of un-delineated flood plains
- Maintenance is an issue.
- Dams and levees (Phoenix, Bureau of Reclamation, Reach 11, Flood Control District, Cave Creek, New River)
- Climate change, wildfires, drought, critical facilities, and funds impact most areas.

Additional Discussion:

- Above ground reservoirs that could fail and cause problems. Some are considered dams.
- Private maintenance is an issue. For example, drywells not properly maintained can cause flooding if they don't percolate correctly.
- Redevelopment, and connectivity between different developments.

7. Next Steps – 5 min

- Public Open Houses – Thursday, March 6 and Tuesday, May 6

8. Adjourn

Next Meeting: Wednesday, February 26, 2025 Phoenix City Hall - 200 W Washington Street, 85003

Committee Meeting #4 – Review Possible Actions Wednesday, March 19, 2025

Committee Meeting #5 – Draft an Action Plan Wednesday, April 9, 2025



City of Phoenix Floodplain Management Plan (FMP) 2025

FMP Committee Meeting #2

February 05, 2025



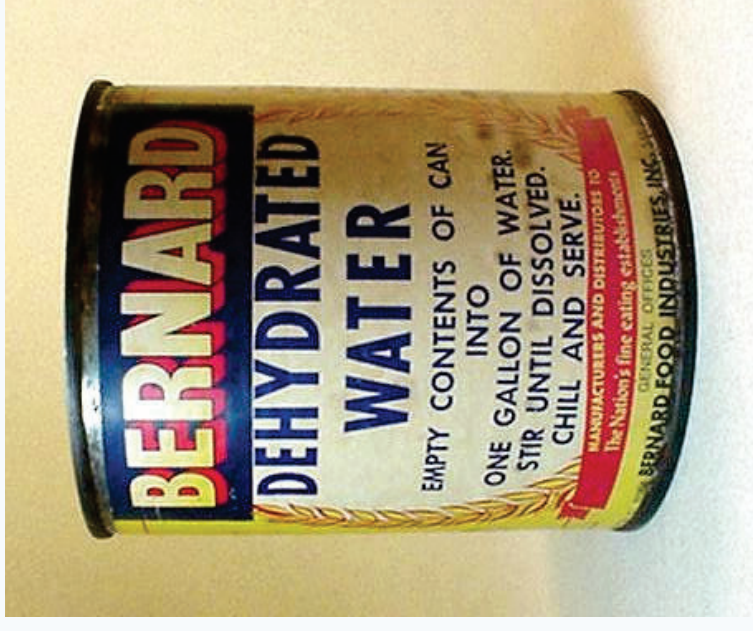
AGENDA

- Safety Moment
- Introductions (If Needed)
- Overview of FMP Mtg#1: Flood Hazard Identification
- Impacts of Hazards – Assessing the Problem
- Group Breakout – Hazards and Problems Discussion
- Group Report Out and Discussion
- Next Steps



SAFETY MOMENT – OVERLOOKED WINTER HAZARDS

- **DEHYDRATION**
 - Drier, less humid air can exacerbate fluid loss
 - Hydrate early and often
- **UV RAYS**
 - Sun's rays are harmful even during summer
 - Cover up, wear sunglasses and broad-spectrum sunscreen
- **CARBON MONOXIDE**
 - Install/Test CO Detectors



This Photo by Unknown Author is licensed under CC BY-SA



INTRODUCTIONS



-
- NAME
 - ORGANIZATION
 - ROLE WITH FLOOD PLANNING, MITIGATION, AND/OR EMERGENCY MANAGEMENT



OVERVIEW OF CRS ACTIVITY 510 – FLOODPLAIN MANAGEMENT PLAN

- Step 1 – Organize
- Step 2 – Involve the Public
- Step 3 – Coordinate
- Step 4 – Assess the Hazard (FMP Committee Meeting #1)
- **Step 5 – Assess the Problem (FMP Committee Meeting #2)** ← TODAY'S MEETING
- Step 6 – Set Goals (FMP Committee Meeting #3)
- Step 7 – Review Possible Actions (FMP Committee Meeting #4)
- Step 8 – Draft an Action Plan (FMP Committee Meeting #5)
- Step 9 – Adopt a Plan
- Step 10 – Implement, Evaluate, and Revise



2016 HAZARDS IDENTIFIED

- Historic and Repetitive Flooding Areas
- Dam Failure
- Levee Failure
- Flooding
- Future Development Trends
- Earth Fissures
- Land Subsidence
- Other Hazards
 - Drought
 - Extreme Heat
 - Severe Wind
 - Wildfire





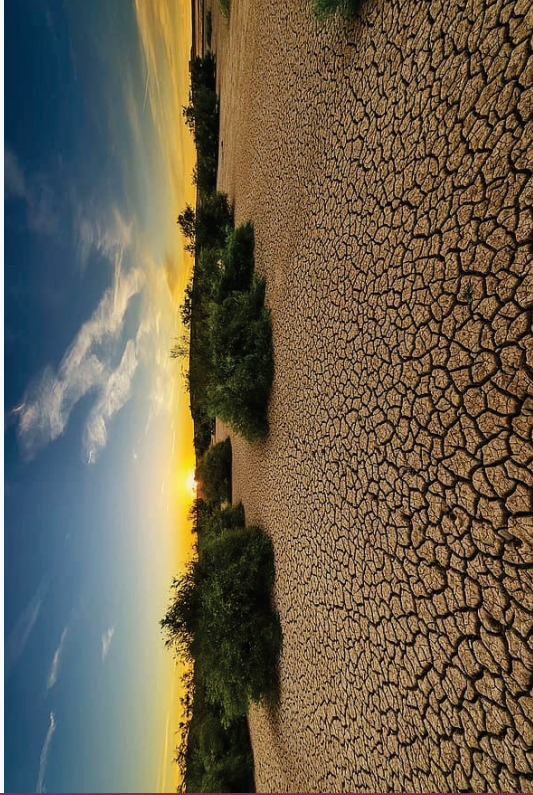
2025 FMP Mtg #1: FLOOD HAZARD IDENTIFICATION

- Special Flood Hazard Areas
 - Riverine Flooding
 - Canal Embankments
- Alluvial Fan
 - Transition from Mountain to Urban Landscape
- Urban Flooding
 - Sheet Flow → Channelized Flow
 - Developments on Fill in Floodplain Fringe
 - Local Flooding
 - Age of Development and Infrastructure
 - Under Capacity Infrastructure
 - Un-Delineated Flood Hazards
 - Wash and Basin Vegetation Maintenance
 - Infill Development



Additional Hazards for Consideration

- Dam and Levee Failure
- Other Non-Flood Related Hazards
 - Climate Change
 - Wildfires
 - Drought
 - Funding



Impacts of Hazards & Assess the Problem

- Life Safety
 - Emergency Warning and Response
 - Evacuations
- Public Health
 - Health Hazards to Individuals – flood waters and mold
- Critical Facilities and Infrastructure
 - Airports, Water Treatment, Fire and Police, Utilities
 - Schools, Hospitals, Senior Care Facilities





Impacts of Hazards & Assess the Problem

- Economy
 - Impacts to Major Employers
- Natural Floodplain Functions
 - Areas Impacted
 - Environmental and Aesthetic Impacts
- Development, Redevelopment, and Population Trends
 - Future Impacts on community, watershed, and natural resources
- Future Flooding Conditions



ASSESS THE PROBLEM

BREAK OUT – 30 MINUTES

Group 1

City Council Districts
1, 2, and 3

Group 2

City Council Districts
4, 5, and 6 North

Group 3

City Council Districts
6 South, 7, and 8

Impacts Hazards on the following:

- Life Safety
- Public Health
- Critical Facilities and Infrastructure
- Economy
- Natural Floodplain Functions
- Development, Redevelopment, and Population Trends
- Future Flooding Conditions

Hazards Identified:

- Special Flood Hazard Areas
- Riverine Flooding
- Canal Embankments
- Alluvial Fan
- Transition from Mountain to Urban Landscape
- Urban Flooding
- Sheet Flow → Channelized Flow
- Developments on Fill in Floodplain Fringe
- Local Flooding
- Age of Development and

Infrastructure

- Under Capacity Infrastructure
- Un-Delineated Flood Hazards
- Wash and Basin Vegetation Maintenance
- Infill Development
- Dam and Levee Failure
- Other Non-Flood Related Hazards
- Climate Change
- Wildfires
- Drought
- Funding



TAKE A BREAK! 10 MINUTES



IMPACTS OF HAZARDS DISCUSSION

- Description of impact hazards identified have on:
 - Life, safety and the need for warning and evacuation
 - Public health, including health hazards to individuals from flood waters and mold
 - Critical facilities and infrastructure
 - City's economy and major employers

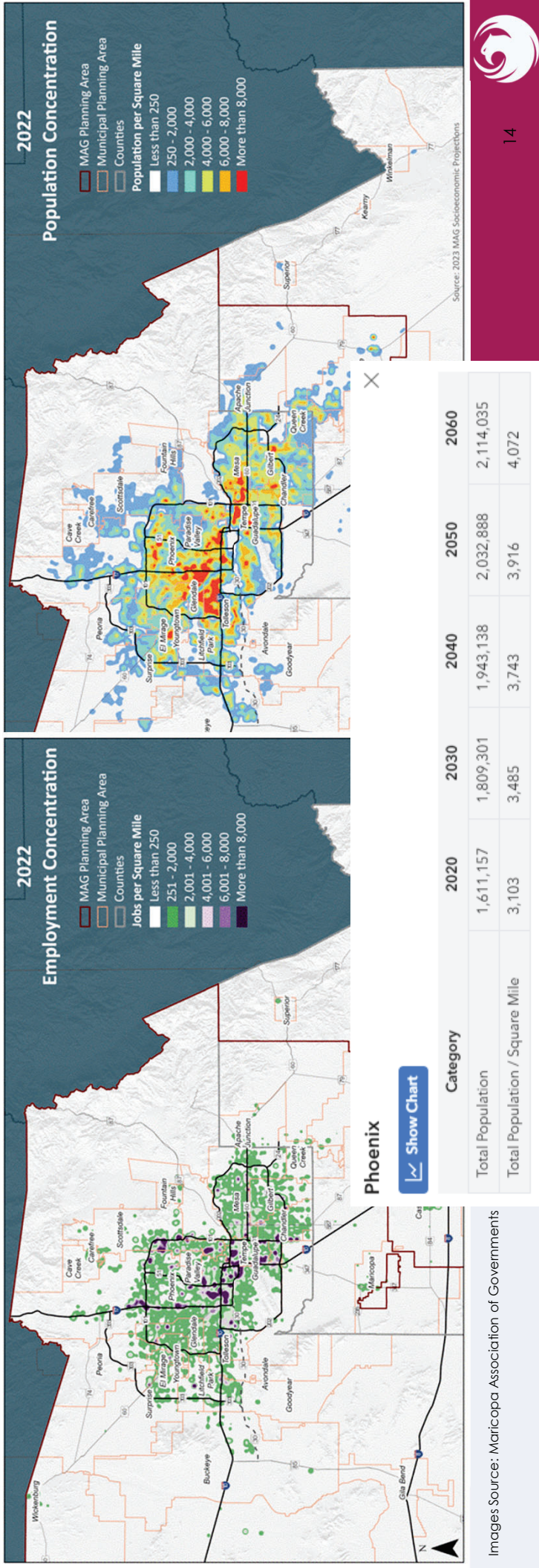


City of San Diego
Office of Emergency Management
Copyright © 2010 City of San Diego



IMPACTS OF HAZARDS DISCUSSION

- Areas that provide natural floodplain functions
- Description of development, redevelopment, population trends



IMPACTS OF HAZARDS DISCUSSION

- Impacts of future flooding conditions on people, property and natural floodplain functions from:
 - Changes in floodplain development and demographics
 - Development in the watershed
 - Climate change



Photo courtesy of NOAA



NEXT STEPS:

- Ongoing coordination with FMP Committee
- Public Survey
- Public Meetings
- **Next Meeting**
 - Wednesday, February 26, 2025 @ 9am – Set Goals
 - Phoenix City Hall - 200 W Washington Street, 85003





Questions?

Next FMP Committee Meeting | February 26, 2025 | 9am City of Phoenix, City Hall



Number of flood hazards checked “YES” per watershed by each Group			
	City Districts 1, 2, and 3	City Districts 4, 5, and 6	City Districts 6 South, 7, and 8
Flood Hazards	Group 1	Group 2	Group 3
Local Flooding			
Transition from Mountains to Urban Landscape			
Developments on Fill in Floodplain Fringe			
Age of Development			
Under Capacity Stormwater Infrastructure			
Flood Irrigate Lots			
Canal Embankments			
Un-delineated Floodplains			
Wash and Basin Vegetation Maintenance			
Infill Development			
Climate Change			
Dams			
Levees			
Additional			
Wildfires			
Drought			
Critical Facilities – Protect airports, canals, hospitals, utilities, water treatment, fire stations, and police			
Funding			