



Phoenix Floodplain Management Plan 2025 (ST83140150)

Committee Meeting #1

January 15, 2025 at 9:00 AM – 11:00 AM

MEETING MINUTES

1. Safety moment – 3 min
2. Introductions – Around the room – 15 min
3. City Council Engineer Welcome Statement – 5 min
4. Overview of the National Flood Insurance Program (NFIP) – 10 min
 - a. What is the NFIP?
 - b. Community Rating System (CRS)
 - i. Need at least one rep from the organization.
 - ii. **Question:** What is the extra 5% discount? What does that amount to?
5. Overview of CRS Activity 510 – Floodplain Management Plan (FMP) – 5 min
 - a. Overview and purpose of FMP
 - i. **Manny Patel:** What specific activities are needed from the 300, 400, 500, etc. series to get class 4?
Matt Hann: We will need points from all categories. The City has other activities going on that contribute to the overall goal.
 - b. Review of FMP Committee Timeline and Expectations
 - i. **Manny Patel:** How were committee members selected?
Matt Hann: We chose organizations that are involved with floodplain management, emergency management, or impacted by it.
 - ii. **Manny Patel:** How often is the FMP updated?
Matt Hann: About every 5 years.
Bryan Cosson: Other Class 4 communities may be required to do 3 to 5-year cycles.
6. FMP Committee Members Roles and Responsibilities – 2 min
 - a. Attendance at each FMP Committee Meeting – at least one person from each organization
7. Overview of Current Phoenix FMP (2016) – 15 min
 - a. Identified Hazards & Problems
 - b. Status of 2016 Goals and Action Plan
 - c. Lessons Learned
8. Breakout For New/Updated Hazards – 30 min
9. Reporting From Breakouts – 20 min

GROUP 1 Potential Hazards (City Council Districts 1, 2, & 3):

Individual property owners have local drainage or flooding concerns.

The transition from mountains to urban landscape creates flooding/drainage issues.

The city does have project in these areas to address flooding and drainage problems.

We discussed subdivisions placed on fill in floodplain fringe that now have ground level issues.

Other factors include age of development, as earlier ones have higher risk of flooding than newer ones based on changes in development standards.

Matt Hann: Majority of the City of Phoenix and Maricopa County dams and levees are in Group 1. We'll have an inventory of levee and dams to document risks and elaborate on background in the plan.

GROUP 2 Potential Hazards (City Council Districts 4, 5, & 6):

Andrew Hagglund: Older homes, from 50s and 60s, with flood irrigated lots.

A lot of local flooding, canals that back up water on berms, the natural washes.

The infrastructure is under capacity and not maintained. Portions of the Salt River back up causing flooding along ADOT right of way. Flooding occurs in monsoon and winter.

GROUP 3 Potential Hazards (City Council Districts 6, 7, & 8):

Ryan Sauer: Floodplain delineation doesn't reflect hazards, South Mountain floodplains not mapped. We had a conversation on vegetation – private maintenance involves risk. Residents want vegetation and we need to make sure it's not impacting flows. We discussed Infill in south Phoenix, large developments in Ahwatukee and how might those impact flows.

G1: There are different standards for wash maintenance. The primarily flow line and adjacent part may be maintained differently, with different standards. One part may be clear cut and other areas may be vegetated. We don't have an even approach to wash maintenance.

Ryan Sauer: There needs to be a balance of what residents want, some want washes cleared, others want vegetated washes.

Ryan Sauer: We discussed that in the future, there may be less rain and peak flows may be different.

Matt Hann: Especially in unmapped hazard or older areas.

Question (G1): Pima is bringing in rules and standards for developments, does CRS give points for these types of standards?

Matt Hann: It's a component.

Ryan Sauer: 10-year, 100-year, different future storms are allocated different points.

Matt Hann: The County has started wanting to evaluate 500-year storms for Area Drainage Master Studies, these are less likely but higher risk.

Question (G1): how often is 100-year storm updated?

Ryan Sauer: NOAA updates the national precipitation values typically 15-20 years – but, they need to have enough new data to make the updates.

Kathryn Gross: Water studies are regional; storms may not be updated for smaller local storms.

Andrew Hagglund: The valley is microclimate, in a 1x1 mile intense storm it is hard to capture and model it.

Ryan Sauer: In 2014 storm, sediment and boulders made their way onto Dobson by South Mountain. Several City of Phoenix storm drain projects in the area.

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10. Next Steps – 5 min

- a. Collect and incorporate hazard and mitigation data for Maricopa County
- b. Ongoing coordination with FMP Committee
- c. Conduct Public and Stakeholder Involvement – Specific Audiences
- d. Public Survey & Website Updates

11. Adjourn

Next Meeting: Wednesday, February 5, 2025
Phoenix City Hall - 200 W Washington Street, 85003

Committee Meeting #2 – Assess the Problem	Wednesday, February 5, 2025
Committee Meeting #3 – Set Goals	Wednesday, February 26, 2025
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 #1

January 15, 2025



AGENDA

- Safety Moment
- Introductions
- City Engineer Welcome
- Overview of National Flood Insurance Program (NFIP)
- Overview of CRS Activity 510 – Floodplain Management Plan
- Overview of current FMP – 2016
- Where We Want to Be – FMP 2025
- Next Steps

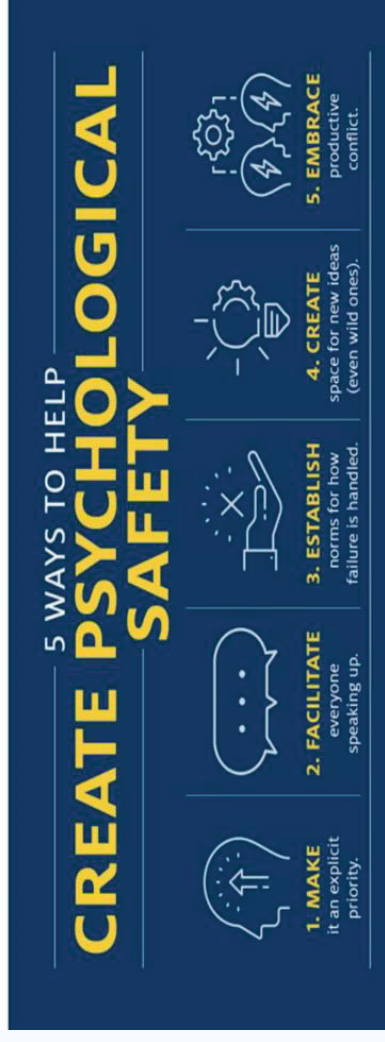


SAFETY MOMENT – PSYCHOLOGICAL SAFETY

A BELIEF THAT IT IS SAFE TO TAKE
INTERPERSONAL RISKS: THAT ONE WILL NOT
BE PUNISHED OR HUMILIATED FOR SPEAKING
UP WITH IDEAS, QUESTIONS, CONCERNS, OR
MISTAKES.

- ANYONE CAN ASK QUESTIONS WITHOUT
LOOKING STUPID.
- ANYONE CAN ASK FOR FEEDBACK
WITHOUT LOOKING INCOMPETENT.
- ANYONE CAN BE RESPECTFULLY CRITICAL
WITHOUT APPEARING NEGATIVE.
- ANYONE CAN SUGGEST INNOVATIVE IDEAS
WITHOUT BEING PERCEIVED AS
DISRUPTIVE.

Creating Psychological Safety



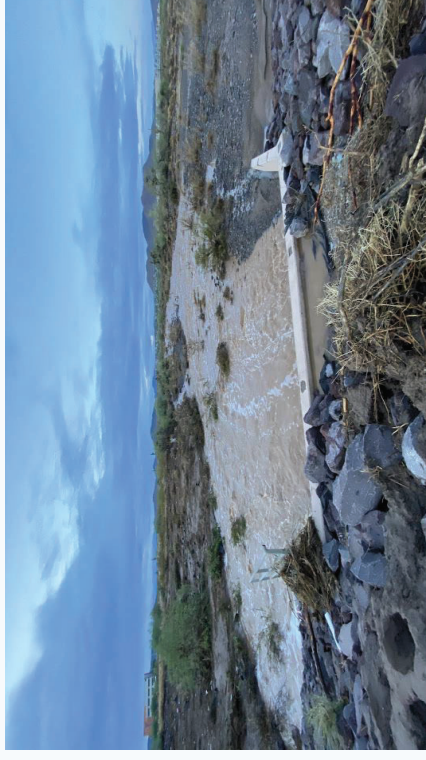
INTRODUCTIONS



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



CITY ENGINEER WELCOME STATEMENT



NATIONAL FLOOD INSURANCE PROGRAM

- Mapping
- Flood Insurance
- Regulations
- Community Rating System (CRS)



COMMUNITY RATING SYSTEM (CRS)

- Voluntary Incentive Program
- Above and beyond the NFIP minimum requirements
- Incentives for flood insurance premiums
 - Phoenix - Class 5 Community
 - Phoenix - Goal for Class 4

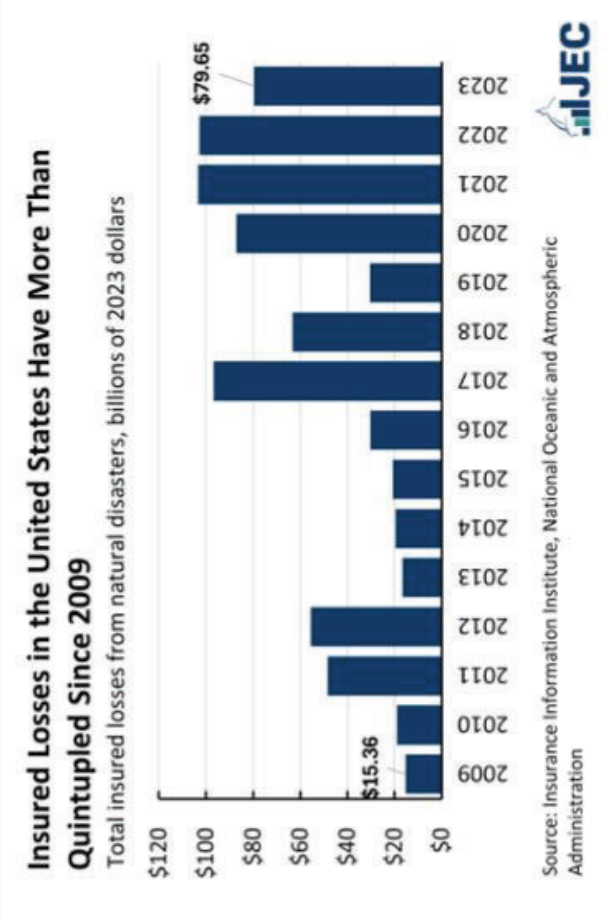


CRS Classes and Discount Table

CRS Class	10	9	8	7	6	5	4	3	2	1
CRS Discount (Premium Reduction)	0%	5%	10%	15%	20%	25%	30%	35%	40%	45%



RISING COSTS OF NATURAL DISASTERS



Arizona Average Home Insurance Premium Changes in Last 4 Years		
2020 Annual Average Home Insurance Premium	2024 Annual Average Home Insurance Premium	Change in Average Home Insurance Premiums from 2020 to 2024
\$1,255	\$1,554	+\$299 (+24%)



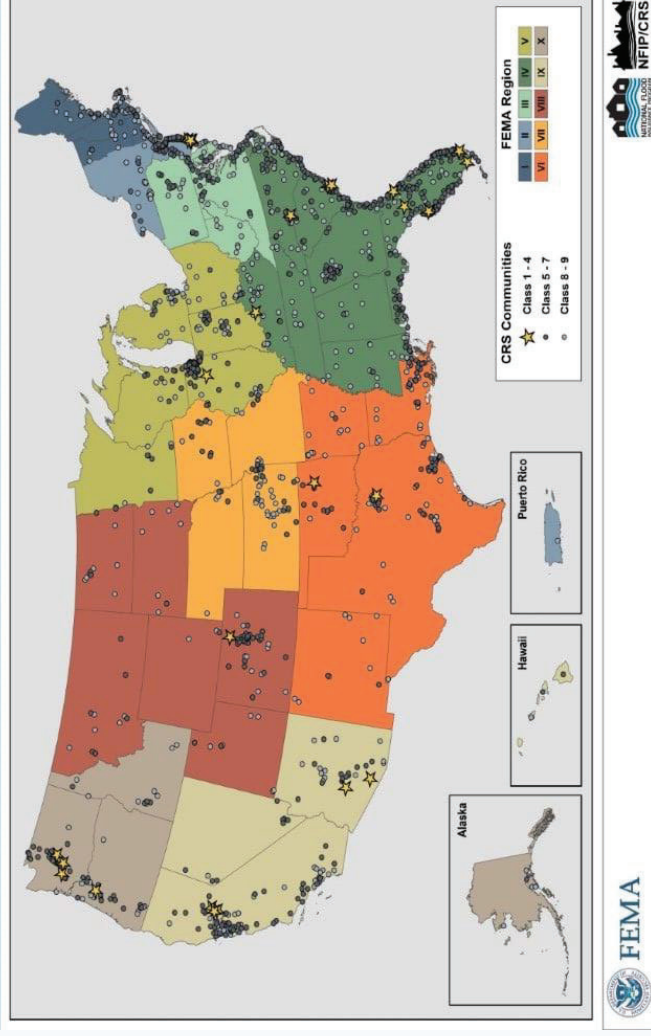
CRS PROGRAM PARTICIPATION

- 1,500+ Communities in CRS
- 22,000+ Communities in NFIP
- ~8% of NFIP participates in CRS
- More than 70% of all flood insurance policies are written in CRS Communities

Data as of October 2020

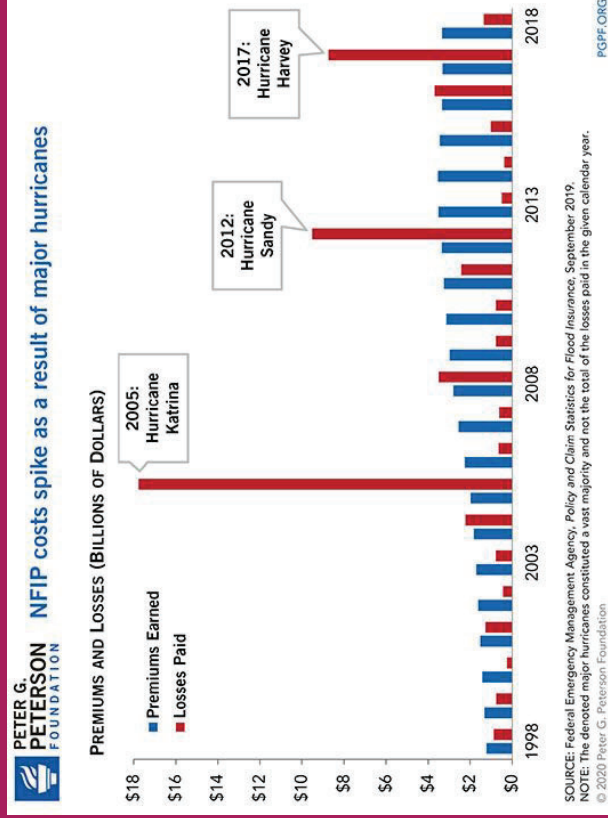
National Flood Insurance Program (NFIP)
Community Rating System (CRS)

October 2022



CRS BACKGROUND

- NFIP Supported Program
- Goals
 - Reduce & Avoid Flood Damage to Insurable Properties
 - Strengthen & Support the Insurance Aspects of the NFIP
 - Foster Comprehensive Floodplain Management
- 4 Series → 19 Activities → 90+ Elements
 - Public Information Activities (300 Series)
 - Mapping & Regulations (400 Series)
 - Flood Damage Reduction Activities (500 Series)
 - Warning & Response (600 Series)



300 Series: Public Information Activities

310 – Elevation
Certificates

320 – Map Information
Service

330 – Outreach
Projects

340 – Hazard Disclosure

350 – Flood Protection
Information

360 – Flood Protection
Assistance

370 – Flood Insurance
Promotion

400 Series: Mapping and Regulations

410 – Floodplain
Mapping

420 – Open Space
Preservation

430 – Higher Regulatory
Standards

440 – Flood Data
Maintenance

450 – Stormwater
Management

500 Series: Flood Damage Reduction

510 – Floodplain
Management Planning

520 – Acquisition and
Relocation

530 – Flood Protection

540 – Drainage System
Maintenance

600 Series: Warning and Response

610 – Flood Warning
and Response

620 – Levees

630 – Dams



Overview of CRS Activity 510 – Floodplain Management plan

- CRS Class 4 Prerequisites
- FMP Committee Participant Roles
- Review of FMP Committee Timeline
 - 5 Committee Meetings
 - At least one representative from each participating organization must be present at each of the 5 Committee Meetings



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)** ← TODAY'S MEETING
- Step 5 – Assess the Problem (FMP Committee Meeting #2)
- 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



Current Phoenix FMP (2016)

1. Hazards Identified
2. Status of 2016 Goals & Plans
3. Lessons Learned



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



Action Item	Goal 1: Reduce risks that threaten life and property	Goal 2: Protect critical infrastructure	Goal 3: Promote Hazard Mitigation	Goal 4: Increase Public Awareness of Hazards	Chapter - Recommendation	Deadline
Administrative Actions						
1.0 Plan Adoption	X	X	X	X	Section 3.9	Oct-16
2.0 Monitoring and Reporting	X	X	X	X	Section 3.10	October - annually
3.0 Community Rating System	X	X	X	X	Section 1.2 & 3.10	CRS Recertification Visit
Program Action Items						
4.0 Dam Improvements	X	X	X		Section 3.4 (1b)	Continuous Activity
5.0 Levee Improvements	X	X	X		Section 3.4 (1a)	Continuous Activity
6.0 Drainage system maintenance	X	X			Section 3.4 (4a)	Continuous Activity
7.0 Drainage system improvements	X	X	X		Section 3.4 (4a)	Oct-16
8.0 Property protection funding	X	X	X		Section 3.4 (4a)	Oct-16
9.0 Regulatory review	X	X	X		Section 3.5e & 3.7	CRS Recertification Visit
10.0 NFIP administration	X	X			Section 3.7a	After CAC
11.0 Certified Floodplain Managers	X	X	X	X	Section 3.7a	Oct-16
12.0 Flood response plan	X	X	X	X	Section 3	Continuous Activity
Public Information Action Items						
13.0 Newspaper notifications	X		X	X	Section 3.7 (g)	Continuous Activity
14.0 City Notes articles	X		X	X	Section 3.7 (g)	Continuous Activity
15.0 City Website	X		X	X	Section 3.7 (g)	Oct-16
16.0 Technical References	X	X	X	X	Section 3.7 (b)	CRS Recertification Visit
17.0 Public information projects	X	X	X	X	Section 3.7 (c & g)	Continuous Activity
18.0 Public information messages	X		X	X	Section 3.7 (g)	Continuous Activity

- # Goals and Action Items
1. Reduce Risks that Threaten Life and Property
 2. Protect Critical Infrastructure
 3. Promote Hazard Mitigation
 4. Increase Public Awareness of Hazards
- Administrative Action Items – 3 Total
 - Program Action Items – 9 Total
 - Public Information Action Items – 6 Total



LESSONS LEARNED

1. Need for FMP Committee
 - a) Increased information on hazards and problems
 - b) Community-centered goals and action items
2. Additional Involvement with Public
 - a) Webpage to allow for following FMP progress
 - b) Public Survey to gather additional information
 - c) Public Meetings
3. Additional Involvement with Stakeholders
 - a) Separate, short interviews to gather more feedback outside FMP Committee meetings
4. Annual Tracking and Updates with Committee



Figure 11 – FEMA FIS FIGURE 1 FEMA - Figure 1. Looking downstream on the Salt River During the December 1965 flood (Sky Harbor International Airport runways are in the center.)



ASSESS THE HAZARD BREAK OUT – 30 MINUTES

Group 1

City Council Districts
1, 2, and 3

Group 2

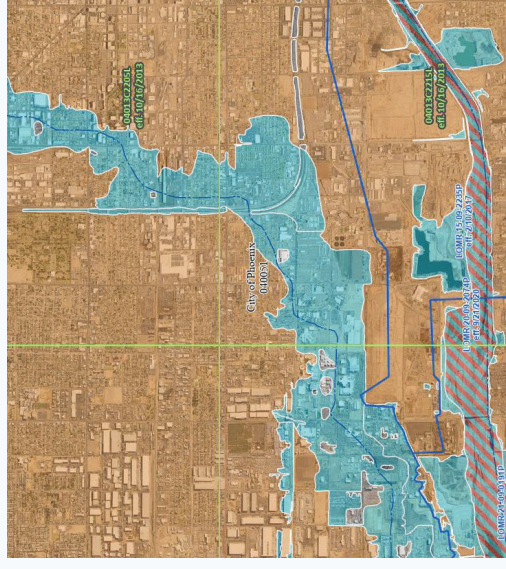
City Council Districts
4, 5, and 6 North

Group 1

City Council Districts
6 South, 7, and 8

Describe local flood hazard.

- How often it floods
- Locations of areas that flood
- Source or cause of flooding



ASSESS THE HAZARD

REPORT BACK



ASSESS THE HAZARD

REPORT BACK

GROUP 1
CITY COUNCIL DISTRICTS
1, 2, AND 3



ASSESS THE HAZARD

REPORT BACK

GROUP 2
CITY COUNCIL DISTRICTS
4, 5, AND 6 NORTH



ASSESS THE HAZARD

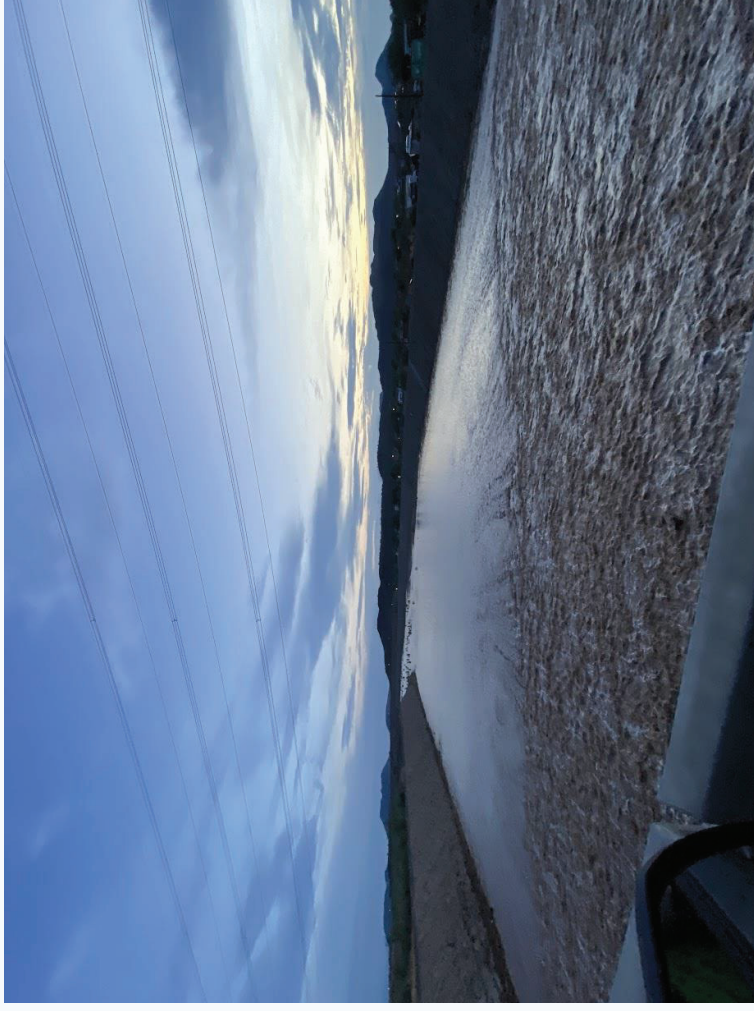
REPORT BACK

GROUP 3
CITY COUNCIL DISTRICTS
6 SOUTH, 7, AND 8



WHERE WE WANT TO BE FOR 2025 FMP

- Update and identify hazards in Phoenix
- Understand the problems associated with the hazards
- Establish new goals and actionable timelines
- Evaluate potential actions and known challenges for new goals
- Prepare a five-year action plan with progress tracking metrics
- Adopt and Implement the plan
- Frequent monitoring of progress toward goals



NEXT STEPS:

- Collect and incorporate hazard and mitigation data
- Ongoing coordination with FMP Committee
- Conduct Public and Stakeholder Involvement – Specific Audiences
- Responsibilities of participants
 - Committee Members
 - City Representatives
 - Consultant Team





Questions?

Next FMP Committee Meeting | February 5, 2025 | 9am City of Phoenix City Hall

