Flood Control District of Maricopa County

Floodplain Management Plan

FMA Conference 2016

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Flood Control District of Maricopa County

The District provides the following services for the residents of Maricopa County:

- Regional flood hazard identification
- Regulation of activity in floodplains
- Remediation of flooding problems
- Education on flood safety
Flood Control District of Maricopa County

• The floodplain administrator for unincorporated Maricopa County

• Performs floodplain management services for 14 of 24 municipalities in the county
What is a Floodplain Management Plan?

Road map for the next five years to address flooding issues in unincorporated Maricopa County.
Why Prepare a Floodplain Management Plan?

Hassayampa River with Sols Wash (left), Powderhouse Wash, Constellation Road, and El Recreo Drive under water

Photo from AZFamily.com
Channel 3
CRS Class 4 Duties and Requirements

• Prerequisite for a Class 4 CRS

• Public committee must prepare the FMP
  – Invitation to participate sent to 25 agencies
  – Required attending all meetings

• Repetitive Loss Areas

• Record keeping for NFIP & CRS

• Flood insurance premiums are discounted by 30% for residents
# FMP Committee

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<tr>
<th>Federal</th>
<th>State</th>
<th>County</th>
<th>Local</th>
<th>Private</th>
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<td><em>ADEMA</em></td>
<td><em>FCDMC</em></td>
<td><em>City of Phoenix</em></td>
<td><em>Arizona Forward</em></td>
<td><em>Maricopa County</em></td>
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<td><em>ADWR</em></td>
<td><em>P&amp;D</em></td>
<td><em>City of Scottsdale</em></td>
<td><em>AZ Rock Products Assn</em></td>
<td><em>resident (insurance agent)</em></td>
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FCDMC Support

• Floodplain Management & Services Division
• Planning & Project Management Division
• Engineering Division
• Operations & Maintenance Division
• Maricopa County Planning & Development Dept.
• Public Information Office
• Office of Enterprise Technology/GIS
Public Participation

• A public open house was held at the District during data collection
  – Hazard identification and associated problems presented
  – Draft FMP goals presented
  – Resident questionnaire distributed

• A second public open house was held to present the draft FMP
Stakeholder Participation

• Over 100 stakeholders invited to public open houses & asked to comment on draft FMP
  – Federal, state, county, municipalities, Native American communities, irrigation districts, Home Builders Assn., SRP, Red Cross, & others

• An additional stakeholder open house was held
Plan Objectives

1. Identify flood hazards & problems
2. Set goals
3. Recommend action plan for next 5 years
Six Key Elements per NFIP

1. Introduction – purpose, organization, and review of past hazards, studies, & goals
2. Assessment of Flood Hazards
3. Assessment of Flooding Problems
4. Floodplain Management Goals
5. Five-Year Action Plan
6. Adoption and Implementation
Hazards & Problems: Urban Watersheds

- Canal overtopping
- Susceptible to flash flooding
- Major transportation corridors flooded
- At-grade road crossings
- Sheet flow channelized by development

- Lateral erosion
- Sediment-laden floodwaters
- Single-lot development
- Trails
- ATV use in river corridors & around/on dams
- Loss of habitat
Additional Hazards & Problems

Agricultural Areas

• Flooding exacerbated by agricultural interruptions to natural drainage patterns
• Repetitive losses in active farming areas

Rural/Undeveloped Areas

• At-grade road crossings with minimal or no access during flooding
Maricopa County
Area - 9,200 sq mi

Hassayampa Watershed
Area = 1,063 sq mi
Hassayampa Watershed

- Flash flooding
- Lateral erosion
- 6 dams
- Canal embankments
- Alluvial fan
- Major transportation corridors
- Repetitive losses
- Single-lot development
- Trails/ATV use
- Loss of habitat
Floodplain Management Goals

- Continue/Expand Public Outreach
- Protect Natural Resources
- Improve Quality of Life
- Strengthen Role as Regional Leader
- Develop Lists of Resources
- Enforce/Enhance Regulatory Standards
Five-Year Action Plan

• **Top Priorities:**
  • Increase CIP program funding
  • Educate the public on flood risk

• **36 Action Items**
  • Preventative (11)
  • Property Protection (2)
  • Emergency Services (7)
  • Structural Projects (5)
  • Natural Resource Protection (6)
  • Public Information (5)
Implementation

• Funding through the FCDMC operating & CIP budgets
• Yearly monitoring of tasks in action plan
• Summary report for review by committee & submitted to BOD for status of implementing action items