

**City of Redding
Flood Management Plan
2008 Evaluation Report**

1.0 INTRODUCTION

On July 19, 2005, the Redding City Council passed resolution 2005-87 adopting the City's Local Hazard Mitigation Plan (LHMP). After the LHMP was adopted, the Hazard Mitigation Project Team (HMPT), which was originally formed to develop the LHMP, continued to meet to track and monitor its implementation.

This report is an evaluation of progress made in the implementation of the Flood Section of the LHMP conducted by the project team.

Table 1-1 HAZARD MITIGATION PROJECT TEAM

PROJECT TEAM LEADERS	
Bruce Becker (retired) Phillip Paige	Current Deputy Fire Chief
Lily Toy	Senior Planner
PROJECT TEAM MEMBERS	
Jim Coats	GIS Manager
John Duffy	Disaster Response Coordinator, County of Shasta Public Health
Ray Duryee	Public Works Manager
Steve Hiner	Plan Check Engineer
Ray Johnson (retired)	Battalion Chief
John Severson	Police Lieutenant

2.0 REVIEW OF THE FLOOD MANAGEMENT PLAN

As a requirement of the National Flood Insurance Program's Community Rating System, the City of Redding is required to conduct an annual evaluation report of the Flood Section of the LHMP. This report represents the 2008 annual evaluations through October 30, 2008. The following list is an update on the actions developed specific to flooding, which were established in the Mitigation Strategy Section of the LHMP. A complete copy of the LHMP can be downloaded from the City of Redding's Web page at www.ci.redding.ca.us.

8.3 GOALS, OBJECTIVES, AND ACTIONS

The following are the flood mitigation goals, objectives, and actions developed from the information in the hazard vulnerability analysis and loss estimation sections of the LHMP. The flood mitigation goals, objectives, and actions were developed as a strategy of long-term hazard reduction or enhancement of existing capabilities. This is organized into three conceptual levels as shown below in Table 8-1.

In addition to the actions contained in the LHMP as shown in Table 8-2, the minimization of flooding and the effects of flooding are addressed on an ongoing basis through implementation of General Plan policy and Zoning Ordinance standards to land development entitlements.

Table 8-1 MITIGATION STRATEGY DESCRIPTION

STRATEGY LEVELS	DESCRIPTION
Goals	Represent the policy level priorities that the community seeks to achieve to reduce its vulnerability to disasters.
Objectives	Support goals and represent the various strategies to be used to accomplish the goals.
Actions	Support objectives and the various direct actions that elected officials, staff, and the community seek to undertake, as resources permit, to accomplish objectives.

Redding’s flood mitigation strategy is shown below in Table 8-2. Following each action is a summary of progress achieved within the reporting period.

Table 8-2 MITIGATION STRATEGY

GOAL 6:	REDUCE DEATHS, INJURIES, STRUCTURAL DAMAGE, AND LOSSES FROM FLOODS.
<i>Objective 6.A:</i>	<i>Enforce the Building Codes, the General Plan policies, and Zoning Ordinance standards of the City of Redding, designed to prevent or minimize damage to residential and commercial structures from flooding. Ongoing through application to land development entitlements.</i>
Action 6.A.1	Ensure that new development does not encroach on the designated floodplain. <ul style="list-style-type: none"> ▶ The Development Services Department continues to enforce the adopted Floodplain Regulations by requiring use permits for development encroachments into the regulated floodplain and requiring elevation certificates for those developments located on parcels impacted by the regulated floodplain.
Action 6.A.2:	Ensure that new development does not contribute to downstream flow increases through the use of detention/retention measures, and continue to review plans and hydraulic calculations for new development to limit net flow increases. <ul style="list-style-type: none"> ▶ The Engineering Department continues to enforce adopted Policy 1806 to ensure that new development does not contribute to downstream flow increases. Additionally, the Development Services Department continues to enforce the adopted Floodplain Regulations by requiring a hydraulic assessment of the base flood event, prepared by a hydrologist.
<i>Objective 6.B:</i>	<i>Reduce the possibility of localized flooding.</i>
Action 6.B.1:	Routinely inspect stormwater channels for vegetation build-up or encroachment, trash and debris, silt and gravel build-up, and erosion or bank failure; and routinely maintain said channels where permitted by California Department of Fish and Game. <ul style="list-style-type: none"> ▶ The Municipal Utilities Department continues to inspect and maintain various storm drains located throughout the City. The identified storm-drain "hot spots" are inspected most frequently.

Action 6.B.2:	<p>Routinely inspect and maintain stormwater inlets and outfalls for debris and obstructions, sand and gravel build-up, and structural damage or vandalism.</p> <ul style="list-style-type: none"> ▶ As a part of its maintenance program, the Municipal Utilities Department continues to routinely inspect and maintain stormwater inlets and outfalls in addition to the stormwater channels.
<i>Objective 6.C:</i>	<i>Alleviate preexisting flooding conditions that are a result of past practices and regulations, or lack of regulation.</i>
Action 6.C.1:	<p>Update Storm Drain Master Plan; identify key projects needed to minimize flooding and their costs; identify regional detention policies and locations to minimize the impact of future development; and develop costs and possible funding strategies for the identified capital projects.</p> <ul style="list-style-type: none"> ▶ The Municipal Utilities Department is in the process of updating the Storm Drain Master Plan. A regional detention feasibility study has been completed. The Municipal Utilities Department is in preparations to present the study to the City Council.

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