

5.9 CITY OF POWAY

The City of Poway (Poway) reviewed a set of jurisdictional-level hazard maps including detailed critical facility information and localized potential hazard exposure/loss estimates to help identify the top hazards threatening their jurisdiction. In addition, LPGs were supplied with exposure/loss estimates for Poway summarized in Table 5.15-1. See Section 4.0 for additional details.

**Table 5.15-1
Summary of Potential Hazard-Related Exposure/Loss in Poway**

Hazard Type	Exposed Population	Residential		Commercial		Critical Facilities	
		Number of Residential Buildings	Potential Exposure/Loss for Residential Buildings (x \$1,000)	Number of Commercial Buildings	Potential Exposure/Loss for Commercial Buildings (x \$1,000)	Number of Critical Facilities	Potential Exposure for Critical Facilities (x \$1,000)
Coastal Storm / Erosion	0	0	0	0	0	0	0
Sea Level Rise	0	0	0	0	0	0	0
Dam Failure	197	11	3,097	5	1,614	0	0
Earthquake (Annualized Loss - Includes shaking, liquefaction and landslide components)	51,126*	15,684*	917*	153*	339*	105*/106*	3,239/12,695*
Floods (Loss)							
100 Year	2,158	338	95,147	195	68,182	15	6,560
500 Year	4,199	1,127	317,251	367	128,587	21	8,267
Rain-Induced Landslide							
High Risk	2,515	874	169,170	56	317,358	5	106,157
Moderate Risk	11,354	4,030	1,120,165	27	98,302	39	261,013
Tsunami	0	0	0	0	0	0	0
Wildfire/ Structure Fire							
Fire regime II & IV	43,624	15,054	4,237,701	12,366	4,328,138	196	813,205

*Represents best available data at this time.

After reviewing the localized hazard maps and exposure/loss table above, the following hazards were identified by the Poway LPG as their top five. A brief rationale for including each of these is included.

- **Wildfire:** historical data and destructive potential.
- **Flooding:** historical data.
- **Geologic Hazards (Landslide, rockslide, earthquake):** not from epicenter in Poway area, but because of possible damage to our electricity, water supplies, and wastewater collection system. In addition, landslides and/or rockslides may occur on Poway Grade and Pomerado Road as a result from earthquake or heavy rains.
- **Manmade Hazards:** are considered potential hazards.
- **Drought:** lasting effects of drought are considered potential hazards

5.9.1 Capabilities Assessment

The LPG identified current capabilities available for implementing hazard mitigation activities. The Capability Assessment (Assessment) portion of the jurisdictional mitigation plan identifies administrative, technical, legal and fiscal capabilities. This includes a summary of departments and their responsibilities associated to hazard mitigation planning as well as codes, ordinances, and plans already in place associated to hazard mitigation planning. The second part of the Assessment provides Poway's fiscal capabilities that may be applicable to providing financial resources to implement identified mitigation action items.

Existing Institutions, Plans, Policies and Ordinances

The following is a summary of existing departments in Poway and their responsibilities related to hazard mitigation planning and implementation, as well as existing planning documents and regulations related to mitigation efforts within the community. The administrative and technical capabilities of Poway, as shown in Table 5.15-2, provides an identification of the staff, personnel, and department resources available to implement the actions identified in the mitigation section of the Plan. Specific resources reviewed include those involving technical personnel such as planners/engineers with knowledge of land development and land management practices, engineers trained in construction practices related to building and infrastructure, planners and engineers with an understanding of natural or manmade hazards, floodplain managers, surveyors, personnel with GIS skills and scientists familiar with hazards in the community.

**Table 5.15-2
City of Poway: Administrative and Technical Capacity**

Staff/Personnel Resources	Y/N	Department/Agency and Position
A. Planner(s) or engineer(s) with knowledge of land development and land management practices	Y	Development Services – Planners, Engineers
B. Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Development Services – Engineers, Consultants; Safety Services – Fire Marshal
C. Planners or Engineer(s) with an understanding of natural and/or manmade hazards	Y	Development Services – Planners, Engineers
D. Floodplain manager	Y	Development Services - Planner, Engineers
E. Surveyors	Y	Development Services - Consultants
F. Staff with education or expertise to assess the community's vulnerability to hazards	Y	Development Services – Planners, Engineers Public Works – Managers; Safety Services – Chief Officers
G. Personnel skilled in GIS and/or HAZUS	Y	Administrative Services – IT Staff
H. Scientists familiar with the hazards of the community	Y	Development Services - Consultants
I. Emergency manager	Y	City Manager Office – City Manager Safety Services – Emergency Manager
J. Grant writers	Y	All Departments – Various Staff

The legal and regulatory capabilities of Poway are shown in Table 5.15-3, which presents the existing ordinances and codes that affect the physical or built environment of Poway. Examples of legal and/or regulatory capabilities can include: the City’s building codes, zoning ordinances, subdivision ordinances, special purpose ordinances, growth management ordinances, site plan review, general plans, capital improvement plans, economic development plans, emergency response plans, and real estate disclosure plans.

**Table 5.15-3
City of Poway: Legal and Regulatory Capability**

Regulatory Tools (ordinance, codes, plans)	Local Authority (Y/N)	Does State Prohibit (Y/N)
A. Building code	Y	N
B. Zoning ordinance	Y	N
C. Subdivision ordinance or regulations	Y	N
D. Special purpose ordinances (floodplain management, storm water management, hillside or steep slope ordinances, wildfire ordinances, hazard setback requirements)	Y	N
E. Growth management ordinances (also called “smart growth” or anti-sprawl programs)	Y	N
F. Site plan review requirements	Y	N
G. General or comprehensive plan	Y	N
H. A capital improvements plan	Y	N
I. An economic development plan	Y	N
J. An emergency response plan	Y	N
K. A post-disaster recovery plan	Y	N
L. A post-disaster recovery ordinance	Y	N
M. Real estate disclosure requirements	Y	N

Fiscal Resources

Table 5.15-4 shows specific financial and budgetary tools available to Poway such as community development block grants; capital improvements project funding; authority to levy taxes for specific purposes; fees for water, sewer, gas, or electric services; impact fees for homebuyers or developers for new development; ability to incur debt through general obligations bonds; and withholding spending in hazard-prone areas.

**Table 5.15-4
City of Poway: Fiscal Capability**

Financial Resources	Accessible or Eligible to Use (Yes/No)
A. Community Development Block Grants (CDBG)	Yes
B. Capital improvements project funding	Yes
C. Authority to levy taxes for specific purposes	No-requires 2/3 voter approval. Poway has special districts for LMD and Lighting.
D. Fees for water, sewer, gas, or electric service	Yes for water and sewer
E. Impact fees for homebuyers or developers for new developments/homes	Yes
F. Incur debt through general obligation bonds	No-requires 2/3 voter approval
G. Incur debt through special tax and revenue bonds	No-requires 2/3 voter approval
H. Incur debt through private activity bonds	No
I. Withhold spending in hazard-prone areas	Yes, subject to Council approval.

Goals, Objectives and Actions

Listed below are Poway's specific hazard mitigation goals, objectives and related potential actions. For each goal, one or more objectives have been identified that provide strategies to attain the goal. Where appropriate, the City has identified a range of specific actions to achieve the objective and goal.

The goals and objectives were developed by considering the risk assessment findings, localized hazard identification and loss/exposure estimates, and an analysis of the jurisdiction's current capabilities assessment. These preliminary goals, objectives and actions were developed to represent a vision of long-term hazard reduction or enhancement of capabilities. To help in further development of these goals and objectives, the LPG compiled and reviewed current jurisdictional sources including the City's planning documents, codes, and ordinances. In addition, City representatives met with consultant staff and/or OES to specifically discuss these hazard-related goals, objectives and actions as they related to the overall Plan. Representatives of numerous City departments involved in hazard mitigation planning, including Fire, Police, and Public Works provided input to the Poway LPG. The Poway LPG members were:

- Mark Sanchez, Jon Canavan, Susy Turnbull - Safety Services
- Pat Ryan, Tom Howard, Eric Heidemann - Public Works
- Jim Lyons, Joe Lim - Development Services
- Brad Rosen, Information Technology

Once developed, City staff will present plan to the City Manager for submission to Cal OES and FEMA. Upon approval from FEMA, staff will present Plan to City Council for adoption.

Public meetings were held throughout the County to present these preliminary goals, objectives and actions to citizens and to receive public input. At these meetings, specific consideration was given to hazard identification/profiles and the vulnerability assessment results. The following sections present the hazard-related goals, objectives and actions as prepared by Poway's LPG in conjunction with the Hazard Mitigation Working Group, locally elected officials, and local citizens.

Goals

The City of Poway has developed the following 4 Goals for their Hazard Mitigation Plan

- Goal 1. Promote resistance to the effects of disasters upon development and infrastructure.
- Goal 2. Promote public understanding, support and demand for effective hazard mitigation.
- Goal 3. Reduce the possibility of damage and losses to people, existing assets and critical facilities/infrastructure due to:
 - a. Wildfires
 - b. Flooding
 - c. Geological Hazards (landslide, rockslide, earthquake)
 - d. Manmade Hazards
- Goal 4. Reduce possibility of damages and losses to existing assets, particularly people, critical facilities/infrastructure and city owned facilities due to severe weather, including extreme heat and drought.

5.9.1.1 Objectives and Actions

The City of Poway developed the following broad list of objectives and actions to assist in the implementation of each of their 4 identified goals. The City of Poway developed objectives to assist in achieving their hazard mitigation goals. For each of these objectives, specific actions were developed that would assist in their implementation. A discussion of the prioritization and implementation of the action items is provided in Section 5.9.2.3.

Goal 1: Promote resistance to the effects of disasters upon development and infrastructure.		New, existing or both
<i>Objective 1.A: The General Plan can be updated to further promote resistance to the effects of disasters upon development and infrastructure.</i>		
Action 1.A.1	Evaluate and revise General Plan policies as necessary.	Both
Action 1.A.2	Review and update FEMA maps regarding flood risk in Poway as necessary.	Both
Action 1.A.3	Evaluate ways to improve road access for emergency vehicles in remote locations.	Both
Action 1.A.4	Update the Water Master Plan with particular attention to fire system upgrades as needed.	Both
Action 1.A.5	Upgrade and improve the use of technologies used in City's Emergency Operations Centers.	Both
Action 1.A.6	Maintain improved wildfire defensible space strategies.	Both

Goal 2: Promote public understanding, support and demand for effective hazard mitigation.		New, Existing or Both
<i>Objective 2.A: Educate the public to increase their awareness of hazards and ways to mitigate damage.</i>		
Action 2.A.1	Conduct annual NIMS/SEMS/ICS review and training for appropriate City staff and the City Council.	Both
Action 2.A.2	Provide public education and outreach activities regarding disaster preparedness.	Both
Action 2.A.3	Maintain CERT program.	Both
Action 2.A.4	Partner with regional organizations focused on improved disaster preparedness. Continue to target disaster preparedness training to AFN populations (seniors and the disabled) in the community.	Both

DRAFT

Goal 3: Reduce the possibility of damage and losses to people, new and existing assets, and critical facilities/ infrastructure due to: <u>wildfires, flooding, geological hazards (landslide, rockslide, earthquake), and manmade hazards.</u>		New, Existing or Both
<i>Objective 3.A: Plan and prepare for damage and loss from <u>wildfire.</u></i>		
Action 3.A.1	Update maps of potential wildfire areas in Poway.	Both
Action 3.A.2	Update fire control and evacuation plans for areas near wildland vegetation.	Both
Action 3.A.3	Update the existing safety plan developed by Safety Services for the High Valley area, including a third road into and out of the area	Both
Action 3.A.4	Upgrade road access, surface, and grade for fire safety equipment at identified locations.	Both
Action 3.A.5	Update the Water Master Plan. Evaluate adding hydrants, creating loops, and other means to improve pressure and volume where needed.	Both
Action 3.A.6	Evaluate possible use of certain City trails as auxiliary routes in emergency.	Both
<i>Objective 3.B: Plan and prepare for damage and loss due to <u>flooding.</u></i>		
Action 3.B.1	Provide sand and sand bags to the public for the prevention of flooding damage or loss.	Both
Action 3.B.2	Implement the Drainage Master Plan and, as appropriate, evaluate channel enlargement and/or detention basins to regulate flow.	Both
Action 3.B.3	Remove sediment and silt from channels as needed, and make structural improvements in floodways to increase capacity.	Both
Action 3.B.4	Update Poway Dam Inundation Plan as needed.	Both
Action 3.B.5	Continue to participate in the National Flood Insurance Program and requirement to review applications for conformance with NFIP standards.	New
<i>Objective 3.C: Plan and prepare for damage and loss due to <u>geological hazards (landslide, rockslide, earthquake).</u></i>		
Action 3.C.1	Develop an action plan to mitigate possible damage from landslide or rockslide on Poway Grade and Pomerado Road.	Both
Action 3.C.2	Continue program to improve and/or retrofit water distribution system and wastewater system to reduce the impact of earthquakes. This includes installation of seismic valves at critical water storage tanks, and creating a safe drainage corridor in the event a tank fails.	Both
Action 3.C.3	Provide specialized training to staff for disaster recovery responsibilities.	New

Goal 4: Reduce the possibility of damage and losses to existing assets, particularly people, critical facilities/ infrastructure and city owned facilities due to severe weather, including extreme heat and drought.		New, Existing or Both
<i>Objective 4.A: Maximize the efficient use of water resources in order to improve the community's resiliency to long term drought and extreme heat conditions.</i>		
Action 4.A.1	Develop/Update Drought Response Plan in conjunction with the San Diego County Water Authority.	New
Action 4.A.2	Continue to participate in the National Weather Service StormReady Program.	New
<i>Objective 4.B: Educate the community about drought, its potential impacts and individual mitigation techniques that they can engage in to help prevent drought or reduce the impact of drought.</i>		
Action 4.B.1	Encourage residents to adopt drought tolerant landscaping or xeriscape practices.	Both
Action 4.B.2	Promote water conservation as a strategy to mitigate future drought conditions and include criteria for drought related mitigation actions.	Both

DRAFT

Prioritization and Implementation of Action Items

Once the comprehensive list of jurisdictional goals, objectives, and action items listed above was developed, the proposed mitigation actions were prioritized. This step resulted in a list of acceptable and realistic actions that address the hazards identified in each jurisdiction. This prioritized list of action items was formed by the LPG weighing STAPLEE criteria

The Disaster Mitigation Action of 2000 (at 44 CFR Parts 201 and 206) requires the development of an action plan that not only includes prioritized actions but one that includes information on how the prioritized actions will be implemented. Implementation consists of identifying who is responsible for which action, what kind of funding mechanisms and other resources are available or will be pursued, and when the action will be completed.

The top 6 prioritized mitigation actions as well as an implementation strategy for each are:

Priority Action #1: Maintain improved wildfire defensible space strategies.

Coordinating Individual/Organization: Safety Services & Development Services

Potential Funding Source: City of Poway

Implementation Timeline: Annual action.

Priority Action #2: Partner with regional organizations focused on improved disaster preparedness.

Coordinating Individual/Organization: Safety Services & Community Services

Potential Funding Source: City of Poway

Implementation Timeline: On-going.

Priority Action #3: Maintain Community Emergency Response Team program.

Coordinating Individual/Organization: Safety Services

Potential Funding Source: City of Poway

Implementation Timeline: On-going.

Priority Action #4: Update the Water Master Plan. Evaluate adding hydrants, creating loops, and other means to improve pressure and volume where needed.

Coordinating Individual/Organization: Public Works & Development Services

Potential Funding Source: City of Poway

Implementation Timeline: FY 2017-2020

Priority Action #5: Continue the removal of sediment and silt from channels as needed, and make structural improvements in floodways to increase capacity.

Coordinating Individual/Organization: Public Works

Potential Funding Source: City of Poway

Implementation Timeline: On-going.

Priority Action #6: Continue to evaluate and revise General Plan as necessary.

Coordinating Individual/Organization: Development Services

Potential Funding Source: City of Poway

Implementation Timeline: FY 2017-2020

DRAFT