

Colorado DHSEM Hazard Mitigation Planning

Patricia L. Gavelda
DHSEM State & Local Hazard Mitigation Planning
Program Manager



COLORADO

Division of Homeland Security
& Emergency Management

Department of Public Safety

Mitigation:

- *“Sustained action taken to reduce or eliminate long-term risk to people and property from hazards.”*
- Every dollar spent on mitigation efforts saves three to six dollars in disaster response & recovery costs.

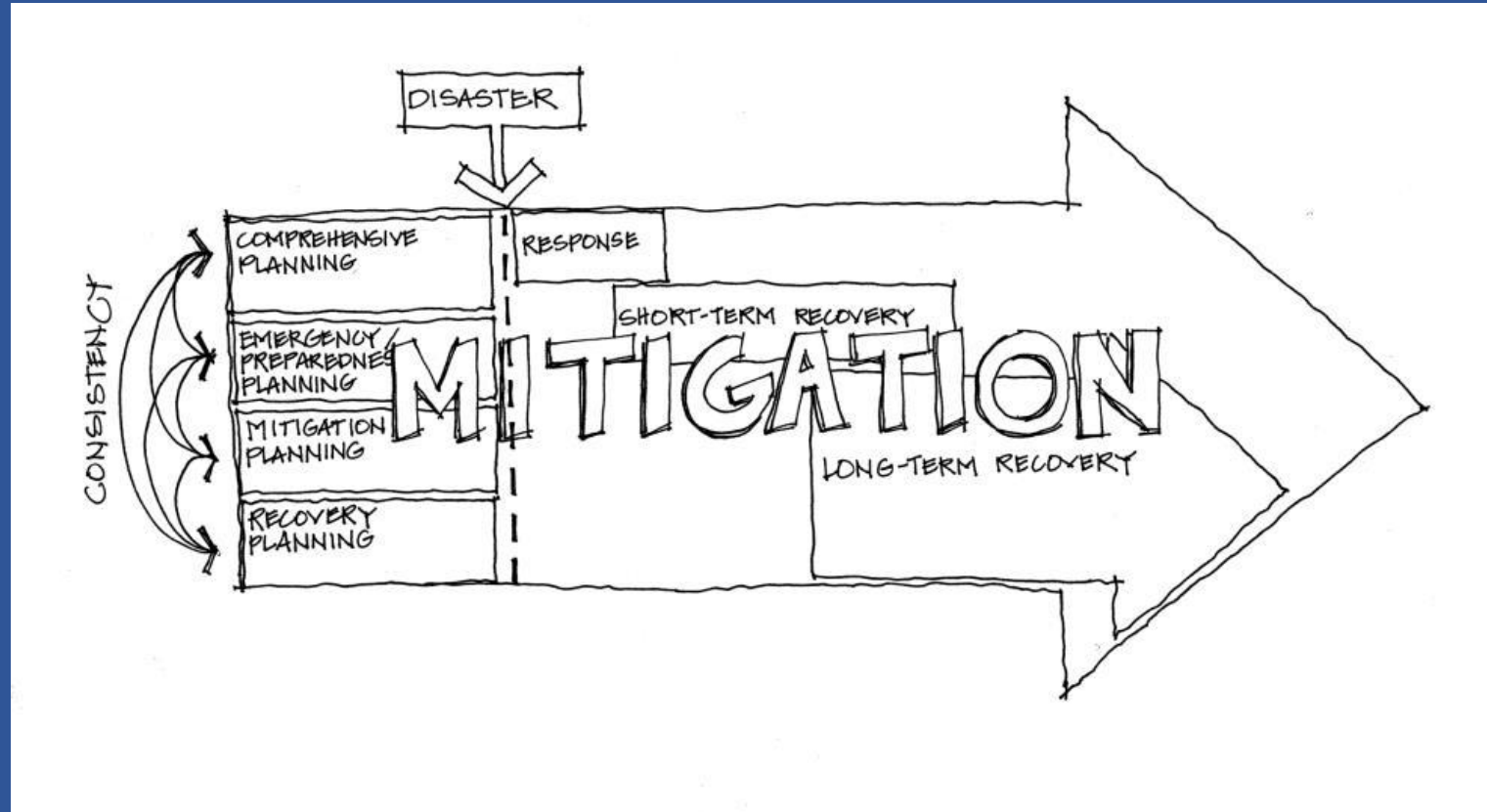


COLORADO

Division of Homeland Security
& Emergency Management

Department of Public Safety

Hazard Mitigation Planning:



Source: Masterson et al, 2014; Modified from Schwab, 1998; Lindell, Prater, and Perry, 2007



COLORADO

Division of Homeland Security
& Emergency Management

Department of Public Safety

State Hazard Mitigation Plan (SHMP):

- FEMA-approved SHMP is a requirement for both pre- and post-disaster grants
- Five-year update cycle
- Colorado current SHMP expires 12/30/2018
- In update process with State partners
- Standard Plan (15%) vs. Enhanced Plan (20%)
 - Additional FEMA required elements to achieve & maintain “Enhanced Plan Status”
 - Demonstrate ability / “earn” additional funds
 - Annual verification by FEMA



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Grant Eligibility Programs:

Public Assistance (PA) Permanent Work (Categories C-G):

- *Category C: Roads & Bridges*
- *Category D: Water Control Facilities*
- *Category E: Public Building & Contents*
- *Category F: Public Utilities*
- *Category G: Parks, Recreational, and Other Facilities*

Fire Management Assistance Grants (FMAG)

- *FEMA program providing reimbursement for fire suppression activities*

FEMA Hazard Mitigation Assistance (HMA):

- *Pre-Disaster Mitigation (PDM)*
- *Flood Mitigation Assistance (FMA)*
- *Hazard Mitigation Assistance Program (HMGP)*



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Impact of Enhanced Status

Disaster	Disaster Allocation (Current)	Disaster Allocation (Enhanced)	State Management Costs (Current)	State Management Costs (Enhanced)
DR 4067	\$785,461	\$1,047,281.33	\$38,409	\$51,212.06
DR 4133	\$23,772	\$31,696	\$1,162	\$1,549.93
DR 4134	\$1,094,717	\$1,459,622.67	\$53,532	\$71,375.55
DR 4145	\$64,250,197	\$85,666,929.33	\$3,141,835	\$4,189,112.84
DR 4229	\$3,142,264	\$4,189,685.33	\$153,657	\$204,875.61
TOTAL	\$69,296,411	\$92,395,214.66	\$3,388,595	\$4,518,125.99

If Colorado had been designated Enhanced Status from 2011 – 2015, DHSEM would have received an additional \$23.1 million of Hazard Mitigation Grant Program funding and \$1.1 million in State Management Costs.

Local Hazard Mitigation Plans:

- Local Hazard Mitigation Plans (HMPs) form a foundation for communities (Counties, Cities/Towns, Tribes, Special Districts) seeking to reduce risks from natural hazards to people, property, and infrastructure:
 - A vision for a safer community developed by and tailored to the community.
 - An effort to make the community as independent, resilient, and self-reliant as possible.
 - An opportunity to comprehensively assess risks and develop a strategy to address those risks through preparedness, mitigation, and should an event occur, recovery.
 - Mitigation reduces demand for response.
 - Opportunity to integrate hazard planning into other planning mechanisms and projects.



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Local Plan Benefits:

- The local planning process enables a community's comprehensive assessment of its hazards, how it would like to mitigate them, and opportunities to integrate mitigation planning with other community plans.
- An approved Local HMP creates eligibility for FEMA's Hazard Mitigation Assistance (HMA) grant programs:
 - Pre-Disaster Mitigation (PDM - Annual Cycle)
 - Flood Mitigation Assistance (FMA - Annual Cycle)
 - Hazard Mitigation Grant Program (HMGP - Post-Disaster)
 - HMGP from DR-4145 (2013 Floods)
 - ~\$67.4 Million Federal Funds
 - HMGP from DR-4229 (2015 Floods and Storms)
 - ~\$3.3 Million Federal Funds



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Plan Benefits & Integration:

- *If enrolled in the National Flood Insurance Program (NFIP) Community Rating System (CRS), local mitigation plans can receive credit of 100 or more points.*
- Important to coordinate CRS verification visit(s) while local HMP is FEMA-approved (5-year cycle).
- DHSEM planning grants require the sub-applicant to ensure contact with Floodplain Manager, Building Inspector, Planning Department, et cetera.



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Planning Integration:

FEMA 4 Step Process:

- 1) *Organize Resources*
- 2) *Assess Risks*
- 3) *Develop the Mitigation Plan*
- 4) *Implement the Plan and Monitor Progress*

Modified 10 Step CRS Process:

- 1-3) Organize the Planning Effort, Involve the Public, Coordinate with other Departments & Agencies
- 4-5) Identify Hazards, Assess Risks
- 6-8) Set Goals, Review Activities, Draft Action Plan
- 9-10) Adopt the Plan, Implement/Evaluate/Revise



COLORADO

Division of Homeland Security
& Emergency Management

Department of Public Safety

HMP Process Steps:

HMP Maintenance & Implementation

Action Prioritization

Develop the Mitigation Strategy

Assess Local Capabilities

Hazard Identification & Risk Assessment (HIRA)

Build the Planning Team, Organize Resources, and Create
Public Engagement Strategy



COLORADO

Division of Homeland Security
& Emergency Management

Department of Public Safety

CRS Goals:

- Reduce flood damage to insurable property
- Strengthen and support the insurance aspects of the NFIP
- Encourage a comprehensive approach to floodplain management



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Types of Mitigation Actions:

- Planning & Regulatory
 - authorities, policies, codes, zoning
- Structure & Infrastructure Projects
 - flood-proofing, remove, modify, protect new/existing structures
- Natural Systems Protection
 - green infrastructure, preserve/restore functions
- Education & Awareness Programs
 - *“In Case of Flash Flood....”*



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

CRS Credit Categories:

- Mapping & Regulations
- Flood Damage Reduction
- Warning & Response
- Public Information



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Benefits of Integrated Planning:

- Incentives to maintain and improve flood programs.
- Increased opportunities to learn about risk, evaluate vulnerabilities, take protective action.
- Enhanced public safety, reduction in damages to property & infrastructure, avoidance of economic impact & losses.
- Evaluate effectiveness of current programs.
- HMP Implementation & Maintenance = *Successful Mitigation!*



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Status of Local HMPs:

- Current FEMA-approved County plans = 53
 - Municipal Plans = 5
 - Tribal Plans = 2
- Total Colorado population (2016) = 5,538,177
- Population covered in a local HMP = 96.3%
- Approved local HMP population = 5,333,629
- To date, three Counties have never had a local HMP:
 - Jackson, Moffat, San Juan
- <https://www.colorado.gov/mars>



COLORADO

Division of Homeland Security
& Emergency Management

Department of Public Safety

Successful Mitigation Planning:

- Builds community partnerships.
 - Encourages development in smart ways.
 - Builds momentum for action.
 - Provides access to FEMA funding.
-
- *“Mitigation planning, together with other plans, support safer and stronger communities nationwide.”*



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety

Questions?

Thank you!

*Patricia L. Gavelda, Colorado DHSEM
Fort Lewis College
1000 Rim Drive
Durango, CO 81301
patricia.gavelda@state.co.us
970-749-8280 (c) / 970-247-6560 (o)*

*Mark Thompson, Colorado DHSEM
Planning Specialist
markW.thompson@state.co.us
720-630-0770 (c)*



COLORADO

**Division of Homeland Security
& Emergency Management**

Department of Public Safety