

LOCAL MITIGATION PLAN REVIEW SUMMARY

The plan cannot be approved if the plan has not been formally adopted. Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

Prerequisite(s) (Check Applicable Box)	NOT MET	MET
1. Adoption by the Local Governing Body: §201.6(c)(5) OR		NA
2. Multi-Jurisdictional Plan Adoption: §201.6(c)(5) AND		X
3. Multi-Jurisdictional Planning Participation: §201.6(a)(3)		X
Planning Process	N	S
4. Documentation of the Planning Process: §201.6(b) and §201.6(c)(1)		X
Risk Assessment	N	S
5. Identifying Hazards: §201.6(c)(2)(i)		X
6. Profiling Hazards: §201.6(c)(2)(i)		X
7. Assessing Vulnerability: Overview: §201.6(c)(2)(ii)		X
8. Assessing Vulnerability: Addressing Repetitive Loss Properties. §201.6(c)(2)(ii)		X
9. Assessing Vulnerability: Identifying Structures, Infrastructure, and Critical Facilities: §201.6(c)(2)(ii)(B)		X
10. Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)	X	
11. Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)		X
12. Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii)		X

*States that have additional requirements can add them in the appropriate sections of the *Local Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

SCORING SYSTEM

Please check one of the following for each requirement.

- N – Needs Improvement:** The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.
- S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

Mitigation Strategy

- 13. Local Hazard Mitigation Goals: §201.6(c)(3)(i)
- 14. Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)
- 15. Identification and Analysis of Mitigation Actions: NFIP Compliance. §201.6(c)(3)(ii)**
- 16. Implementation of Mitigation Actions: §201.6(c)(3)(iii)
- 17. Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)

	N	S
13. Local Hazard Mitigation Goals: §201.6(c)(3)(i)		X
14. Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)		X
15. Identification and Analysis of Mitigation Actions: NFIP Compliance. §201.6(c)(3)(ii)		X
16. Implementation of Mitigation Actions: §201.6(c)(3)(iii)		X
17. Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)		X

Plan Maintenance Process

- 18. Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(ii)
- 19. Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)
- 20. Continued Public Involvement: §201.6(c)(4)(iii)

	N	S
18. Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(ii)		X
19. Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)		X
20. Continued Public Involvement: §201.6(c)(4)(iii)		X

LOCAL MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED
 See Reviewer's Comments
PLAN APPROVED

Local Mitigation Plan Review and Approval Status

Jurisdiction: Garfield County	Title of Plan: Natural Hazards Mitigation Plan	Date of Plan: February 2012
Local Point of Contact: Tamra Allen	Address: 108 8th Street, Suite 401 Glenwood Springs, CO 81601	
Title: Long Range Planner		
Agency: Garfield County		
Phone Number: 970-945-8212	E-Mail: tallen@garfield-county.com	

State Reviewer:	Title:	Date:
------------------------	---------------	--------------

FEMA Reviewer: Shelby Hudson Margaret Doherty	Title: Mitigation Planner Community Planner	Date: May 18, 2012 May 22, 2012
Date Received in FEMA Region VIII	May 1, 2012	
Plan Not Approved		
Plan Approvable Pending Adoption	June 5, 2012	
Date Approved	November 6, 2012	

Jurisdiction:	DFIRM		NFIP Status*			
	In Plan	NOT in Plan	Y	N	N/A	CRS Class
1. Garfield County—Preliminary DFIRMS dated 10/26/11	X		X			
2. City of Glenwood Springs	X		X			
3. City of Rifle	X		X			
4. Town of Carbondale	X		X			
5. Town of New Castle	X		X			

6. Town of Parachute	X		X			
7. Town of Silt	X		X			
8. Burning Mountains Fire District					X	
9. Carbondale and Rural Fire Protection District					X	
10. Glenwood Springs Fire Protection District					X	
11. Grand Valley Fire Protection District					X	
12. Rifle Fire Protection District					X	

*** Notes:** **Y = Participating** **N = Not Participating** **N/A = Not Mapped**

PLAN ASSESSMENT

This section provides a discussion of the strengths of the plan document and identifies areas where these could be improved upon in the next plan update.

Element A: Planning Process

Public involvement in the Garfield County NHMP was encouraged with an on-line survey, a public meeting open forum and a draft comment period via the county website. The on-line survey results are comprehensive and feedback is well-documented in Appendix D.

Element B: Hazard Identification and Risk Assessment

The Risk Assessment Study Areas are an effective way to distinguish geography, assets/development and hazard characteristics across the planning area. Study area analysis quantifies risk by infrastructure, population, economy, and land and development. Associated maps are effective. Incorporating city zoning and planned unit development in this analysis describes vulnerability in terms of future development. Consider defining areas of future development in Garfield County and participating jurisdictions on maps or further describe in text. This is particularly relevant because of the rapidly growing population in the area.

Element C: Mitigation Strategy

Identified actions that address reducing the effects of hazards on new buildings/infrastructure include the evaluation of development codes related to soil type and slope and the coordination with Garfield County on reviewing development codes and improving opportunities to mitigate wildfires near communities. Other actions address reducing effects of hazards on existing buildings, such as assisting property owners with CSFS grant process and assessing the resilience of water and wastewater treatment plants and developing improvements accordingly.

Each jurisdiction participating in the plan has mitigation actions specific to that jurisdiction that are based on the community's risk and vulnerabilities. A table that lists mitigation goals and actions for the County and for each of the participating jurisdictions might help with easy reference of the plan's mitigation strategy in the future.

PREREQUISITE(S)

1. Adoption by the Local Governing Body

Requirement §201.6(c)(5): [The local hazard mitigation plan **shall** include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Has the local governing body adopted the new or updated plan?	NA			NA
B. Is supporting documentation, such as a resolution, included?	NA			NA
SUMMARY SCORE				NA

2. Multi-Jurisdictional Plan Adoption

Requirement §201.6(c)(5): For multi-jurisdictional plans, each jurisdiction requesting approval of the plan **must** document that it has been formally adopted.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the new or updated plan indicate the specific jurisdictions represented in the plan?	Executive Summary and Addenda			X
B. For each jurisdiction, has the local governing body adopted the new or updated plan?				X
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?				X
SUMMARY SCORE				X

3. Multi-Jurisdictional Planning Participation

Requirement §201.6(a)(3): Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			NOT MET	MET
A. Does the new or updated plan describe how each jurisdiction participated in the plan's development?	Section 1, p. 13 and Addenda			X
B. Does the updated plan identify all participating jurisdictions, including new, continuing, and the jurisdictions that no longer participate in the plan?	NA			NA
SUMMARY SCORE				X

PLANNING PROCESS: §201.6(b): *An open public involvement process is essential to the development of an effective plan.*

4. Documentation of the Planning Process

Requirement §201.6(b): *In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:*

- (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
- (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
- (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*

Requirement §201.6(c)(1): *[The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan provide a narrative description of the process followed to prepare the new or updated plan?	Section 1, pgs. 9-13 and Addenda			X
B. Does the new or updated plan indicate who was involved in the current planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?)	p. i; Section 1, pgs. 9-11 (Steering Committee) and Addenda			X
C. Does the new or updated plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)	Section 1, pgs. 14-15 and Addenda	Recommendation: There is a placeholder (highlighted text) in the Addenda for describing any public comments to the draft. Include a summary of these comments, if any, in the final draft, and how they were addressed.		X
D. Does the new or updated plan discuss the opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?	Section 1, p. 13 and Addenda			X
E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?	Section 1, p. 14 and Addenda			X
F. Does the updated plan document how the planning team reviewed and analyzed each section of the plan and whether each section was revised as part of the update process?	NA			NA

SUMMARY SCORE

	X
--	---

RISK ASSESSMENT: §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

5. Identifying Hazards

Requirement §201.6(c)(2)(i): *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the jurisdiction.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan include a description of the types of all natural hazards that affect the jurisdiction?	Section 3, p. 22; Risk Assessment and Addenda			X
SUMMARY SCORE				X

6. Profiling Hazards

Requirement §201.6(c)(2)(i): *[The risk assessment shall include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future hazard events.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the risk assessment identify the location (<i>i.e.</i> , geographic area affected) of each natural hazard addressed in the new or updated plan?	Section 3, pgs. 25-27; Risk Assessment and Addenda			X
B. Does the risk assessment identify the extent (<i>i.e.</i> , magnitude or severity) of each hazard addressed in the new or updated plan?	Risk Assessment and Addenda			X
C. Does the plan provide information on previous occurrences of each hazard addressed in the new or updated plan?	Risk Assessment and Addenda			X
D. Does the plan include the probability of future events (<i>i.e.</i> , chance of occurrence) for each hazard addressed in the new or updated plan?	Section 3, pgs. 21-23 and HIRA, pgs. 1-2 and Addenda	Recommendation: Estimate the probability of each hazard identified in the plan. If the statistical probability of a hazard event is not known, consider a qualitative probability of its occurrence (e.g., low, medium, high). If general descriptors are used, then they must be defined in the plan.		X
SUMMARY SCORE				X

7. Assessing Vulnerability: Overview

Requirement §201.6(c)(2)(ii): [The risk assessment **shall** include a] description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the new or updated plan include an overall summary description of the jurisdiction’s vulnerability to each hazard?	County Risk Assessment and Addenda			X
B. Does the new or updated plan address the impact of each hazard on the jurisdiction?	County Risk Assessment and Addenda			X
SUMMARY SCORE				X

8. Assessing Vulnerability: Addressing Repetitive Loss Properties

Requirement §201.6(c)(2)(ii): [The risk assessment] **must** also address National Flood Insurance Program (NFIP) insured structures that have been repetitively damaged floods.

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the new or updated plan describe vulnerability in terms of the types and numbers of repetitive loss properties located in the identified hazard areas?	Section 3, p. 27 and Addenda	<i>Note: This requirement becomes effective for all local plans approved after October 1, 2008.</i>		X
SUMMARY SCORE				X

9. Assessing Vulnerability: Identifying Structures

Requirement §201.6(c)(2)(ii)(A): The plan **should** describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
A. Does the new or updated plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?	Risk Assessment and Addenda	<i>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</i>		X

<p>B. Does the new or updated plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?</p>	<p>Risk Assessment and Addenda</p>	<p><i>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</i></p>		<p>X</p>
SUMMARY SCORE				<p>X</p>

10. Assessing Vulnerability: Estimating Potential Losses

Requirement §201.6(c)(2)(ii)(B): [The plan **should** describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(ii)(A) of this section and a description of the methodology used to prepare the estimate

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
<p>A. Does the new or updated plan estimate potential dollar losses to vulnerable structures?</p>		<p>Recommendations:</p> <ul style="list-style-type: none"> Describe vulnerability in terms of potential dollar losses and provide an estimate for each identified hazard. The estimate should include, when resources permit, estimates for structure, contents, and function losses to present a full picture of the total loss for each building, infrastructure, and critical facility. Include a composite loss map to locate high potential loss areas to help the jurisdiction focus its mitigation priorities. <p><i>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</i></p>	<p>X</p>	
<p>B. Does the new or updated plan describe the methodology used to prepare the estimate?</p>		<p>Recommendation: Consider including FEMA’s HAZUS-MH model to estimate losses due to flooding.</p> <p><i>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</i></p>	<p>X</p>	
SUMMARY SCORE			<p>X</p>	

11. Assessing Vulnerability: Analyzing Development Trends

Requirement §201.6(c)(2)(ii)(C): [The plan **should** describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

Element	Location in the Plan (section or annex and page #)	Reviewer’s Comments	SCORE	
			N	S
<p>A. Does the new or updated plan describe land uses and development trends?</p>	<p>Risk Assessment and Addenda</p>			<p>X</p>

		<i>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</i>		
SUMMARY SCORE				X

12. Multi-Jurisdictional Risk Assessment

Requirement §201.6(c)(2)(iii): For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	Addenda			X
SUMMARY SCORE				X

MITIGATION STRATEGY: §201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

13. Local Hazard Mitigation Goals

Requirement §201.6(c)(3)(i): [The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A Does the new or updated plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?	Section 1, p. 16 and Addenda			X
SUMMARY SCORE				X

14. Identification and Analysis of Mitigation Actions

Requirement §201.6(c)(3)(ii): [The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan identify and analyze a comprehensive range of specific mitigation actions	Section 4, pgs. 32-33 and			X

and projects for each hazard?	Addenda			
B. Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?	Section 4, pgs. 32-33 and Addenda			X
C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?	Section 4, pgs. 32-33 and Addenda			X
SUMMARY SCORE				X

15. Identification and Analysis of Mitigation Actions: National Flood Insurance Program (NFIP) Compliance

Requirement: §201.6(c)(3)(ii): [The mitigation strategy] must also address the jurisdiction's participation in the National Flood Insurance Program (NFIP), and continued compliance with NFIP requirements, as appropriate.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan describe the jurisdiction (s) participation in the NFIP?	Section 3, p. 27 and Addenda	Note: This requirement becomes effective for all local mitigation plans approved after October 1, 2008.		X
B. Does the mitigation strategy identify, analyze and prioritize actions related to continued compliance with the NFIP?	Section 4, p. 33 and Addenda	Note: This requirement becomes effective for all local mitigation plans approved after October 1, 2008.		X
SUMMARY SCORE				X

16. Implementation of Mitigation Actions

Requirement: §201.6(c)(3)(iii): [The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated mitigation strategy include how the actions are prioritized ? (For example, is there a discussion of the process and criteria used?)	Section 5, pgs. 38-39, ES-1—ES-4, and Addenda	The plan explains that high priority actions are those deemed by the steering committee to be "achievable with existing resources and authorities within one to two years." The plan explains the criteria the committee will use to further prioritize actions in the future.		X

		Recommendation: Consider including an indicator in the existing county table and in new tables in the Addenda that illustrates how the projects compare to one another for each jurisdiction.		
B. Does the new or updated mitigation strategy address how the actions will be implemented and administered, including the responsible department , existing and potential resources and the timeframe to complete each action?	Section 4, p. 31; (pdf pgs. 49-51); and Addenda			X
C. Does the new or updated prioritization process include an emphasis on the use of a cost-benefit review to maximize benefits?	Section 5, p. 39, Appendix B and Addenda			X
D. Does the updated plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged (<i>i.e.</i> , deferred), does the updated plan describe why no changes occurred?	NA			NA
SUMMARY SCORE				X

17. Multi-Jurisdictional Mitigation Actions

Requirement §201.6(c)(3)(iv): For multi-jurisdictional plans, there **must** be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A Does the new or updated plan include identifiable action items for each jurisdiction requesting FEMA approval of the plan?	Addenda			X
B. Does the updated plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged (<i>i.e.</i> , deferred), does the updated plan describe why no changes occurred?	NA			NA
SUMMARY SCORE				X

PLAN MAINTENANCE PROCESS

18. Monitoring, Evaluating, and Updating the Plan

Requirement §201.6(c)(4)(i): [The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan describe the method and schedule for monitoring the plan, including the responsible department?	Section 5, p. 37 and Addenda			X
B. Does the new or updated plan describe the method and schedule for evaluating the plan, including how, when and by whom (<i>i.e.</i> the responsible department)?	Section 5, pgs. 37-38 and Addenda			X
C. Does the new or updated plan describe the method and schedule for updating the plan within the five-year cycle?	Section 5, pgs. 38-39 and Addenda			X
SUMMARY SCORE				X

19. Incorporation into Existing Planning Mechanisms

Requirement §201.6(c)(4)(ii): [The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan identify other local planning mechanisms available for incorporating the mitigation requirements of the mitigation plan?	Section 5, p. 34 and Addenda			X
B. Does the new or updated plan include a process by which the local government will incorporate the mitigation strategy and other information contained in the plan (<i>e.g.</i> , risk assessment) into other planning mechanisms, when appropriate?	Section 5, pgs. 37-39 and Addenda			X
C. Does the updated plan explain how the local government incorporated the mitigation strategy and other information contained in the plan (<i>e.g.</i> , risk assessment) into other planning mechanisms, when appropriate?	NA			NA
SUMMARY SCORE				X

20. Continued Public Involvement

Requirement §201.6(c)(4)(iii): *[The plan maintenance process shall include a] discussion on how the community will continue public participation in the plan maintenance process.*

Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the new or updated plan explain how continued public participation will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	Section 5, p. 41 and Addenda			X
SUMMARY SCORE				X