

Jurisdiction: Erie County, NY

Local Mitigation Plan Review and Approval Status

Jurisdiction: Erie County, NY	Title of Plan: All-Hazard Mitigation Plan	Date of Plan: 21 July, 2004
Local Point of Contact: Dean A Messing	Address:	
Title: Erie County Mitigation Coordinator/Deputy Commissioner		
Agency: Erie County Department of Emergency Services		
Phone Number: 716-858-8477		
	E-Mail: messingd@erie.gov	

State Reviewer: N/A	Title:	Date:
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FEMA Requirement:		
Contractor Reviewer: John Hart	Title: Principal Planner, URS 301-258-5881	Date: 8/19/04
Contractor QA/QC: Carol Maggio	Title: Project Urban Planner, URS 301-721-2276	Date: 8/23/04
FEMA Reviewer: Scott V. Duell	Title: NHPS	Date: January 18, 2005
FEMA QA/QC:	Title:	Date:
Date Received in FEMA Region [Insert #]		
Plan Not Approved		
Plan Approved		
Date Approved		

While URS is responsible for reviewing DMA Plans for compliance with DMA 2000 regulations, URS is not responsible for the accuracy of the completeness of the information provided by the submitting jurisdiction.

Jurisdiction:	NFIP Status*			CRS Class
	Y	N	N/A	
1. Erie County				
2. Akron, Village	X			
3. Alden, Village	X			
4. Alden, Town	X			
5. Amherst, Town	X			
6. Angola, Village	X			
7. Aurora, Town	X			
8. Blasdell, Village	X			
9. Boston, Town	X			
10. Brant, Town	X			
11. Buffalo, City	X			
12. Cheektowaga, Town	X			
13. Clarence, Town	X			
14. Colden, Town	X			
15. Collins, Town	X			
16. Concord, Town	X			
17. Depew, Village	X			
18. E. Aurora, Village	X			
19. Eden, Town	X			
20. Elma, Town	X			

Jurisdiction:	NFIP Status*			
	Y	N	N/A	CRS Class
21. Evans, Town	X			
22. Famam, Village	X			
23. Gowanda, Village				
24. Grand Island, Town	X			
25. Hamburg, Village	X			
26. Hamburg, Town	X			
27. Holland, Town	X			
28. Kenmore, Village	X			
29. Lakawanna, City	X			
30. Lancaster, Village	X			
31. Lancaster, Town	X			
32. Marilla, Town	X			
33. Newstead, Town	X			
34. North Collins, Village				
35. North Collins, Town				
36. Orchard Park, Village	X			
37. Orchard Park, Town	X			
38. Sardina, Town	X			
39. Sloan, Village	X			
40. Springville, Village	X			
41. Tonawanda, City	X			

Jurisdiction:	NFIP Status*			
	Y	N	N/A	CRS Class
42. Tonawanda, Town	X			
43. Wales, Town	X			
44. West Seneca, Town	X			
45. Williamsville, Village				

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

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.

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.

Prerequisite(s) (Check Applicable Box)	NOT MET	MET
Adoption by the Local Governing Body: §201.6(c)(5) OR	N/A	N/A
Multi-Jurisdictional Plan Adoption: §201.6(c)(5) AND	X	
Multi-Jurisdictional Planning Participation: §201.6(a)(3)	X	
Planning Process	N	S
Documentation of the Planning Process: §201.6(b) and §201.6(c)(1)	X	
Risk Assessment	N	S
Identifying Hazards: §201.6(c)(2)(i)		X
Profiling Hazards: §201.6(c)(2)(i)	X	
Assessing Vulnerability: Overview: §201.6(c)(2)(ii)	X	
Assessing Vulnerability: Identifying Structures: §201.6(c)(2)(ii)(A)	X	
Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)		X
Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)	X	
Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii)	X	

Mitigation Strategy

Local Hazard Mitigation Goals: §201.6(c)(3)(i)
 Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)
 Implementation of Mitigation Actions: §201.6(c)(3)(iii)
 Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)

N	S
X	
X	
X	
X	

Plan Maintenance Process

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

N	S
X	
	X
	X

Additional State Requirements*

Insert State Requirement
 Insert State Requirement
 Insert State Requirement

N	S

LOCAL MITIGATION PLAN APPROVAL STATUS

PLAN NOT APPROVED

PLAN APPROVED

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

See Reviewer's Comments

PREREQUISITE(S)

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 plan?	N/A	This is a multi-jurisdictional plan		
B. Is supporting documentation, such as a resolution, included?	N/A			
SUMMARY SCORE			N/A	N/A

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 plan indicate the specific jurisdictions represented in the plan?	Section 1 P. 1 Executive Summary Pg 4, 5	Text indicates the plan was prepared with assistance of every municipality in the county. The table of Local Disaster Coordinators indicates location, which is the only evidence found of the participant jurisdictions. There are apparently 44 jurisdictions. No mention is made in that table of two Indian Tribes that are shown on the map of Municipal boundaries in the appendix. Text indicates that the Seneca Indian Nation is not participating, but with two tribes shown on the map, it is not apparent if both tribes are part of this Nation. Required Revisions: <ul style="list-style-type: none">List all jurisdictions that participated and are intended to be represented through this plan.	X	
B. For each jurisdiction, has the local governing body adopted the plan?	Section 3 P. 5 Planning Process Pg 14, 15	The text indicates all 44 jurisdictions formally adopted a resolution "accepting the plan for completion in Nov 2004". Required Revisions: <ul style="list-style-type: none">All local government jurisdictions which want to be	X	

		<p>considered eligible for future Federal mitigation funding must demonstrate local governing body formal adoption.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> In the main text of the final plan, document when, and by whom, the plan was formally adopted. 		
C. Is supporting documentation, such as a resolution, included for each participating jurisdiction?	<p>Not Provided</p> <p>Pg 15</p>	<p>The plan does not contain a signed resolution from any jurisdiction.</p> <p>Required Revisions:</p> <p>When appropriate, provide copy of actual local governing body formal adoption documentation.</p>	X	
SUMMARY SCORE			X	

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 plan describe how each jurisdiction participated in the plan's development?	<p>Section 3</p> <p>P. 1-5 Planning Process</p> <p>Pg 9 - 14</p>	<p>A very general description was provided. This text raised more questions than offered answers to how/which each jurisdiction participated in the plan's development. For instance, it is not clear how or when either the Local Disaster Coordinators or the Disaster Preparedness Advisory Board was involved and participated in this multi-jurisdictional Mitigation Planning process</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> Number the pages in the plan. Add explanation and clarification regarding multiple jurisdictional planning participation. 	X	
SUMMARY SCORE			X	

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

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 jurisdictions, 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 plan?	Section 3 P. 1-5 Planning Process Pg 8 - 10	A brief description is provided. Further, much of the description suggests activities of the process have not been completed. Required Revisions: <ul style="list-style-type: none"> • All elements of the planning process must be completed in order to satisfy the requirements. Recommended Revisions: <ul style="list-style-type: none"> • The planning Team should consist of a broad range of knowledge, expertise, and interests. For more information on the planning process and advice to jurisdictions seeking to initiate a comprehensive local mitigation planning process, see <i>Getting Started</i> (FEMA 386-1), Steps 1 - 3.	X	
B. Does the plan indicate who was involved in the 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.?)	Section 3 P. 1-5 Planning Process Pg 8 - 10	A brief description is provided. It is noted that the Planning committee is comprised solely of Department of Emergency Services personnel. Again, it is not clear how or when either the Local Disaster Coordinators or the Disaster Preparedness Advisory Board was involved and participated in this multi-jurisdictional Mitigation Planning process. Required Revision: <ul style="list-style-type: none"> • Clearly discuss who and how participants were involved in the planning process. 	X	

		<p>Recommended Revisions:</p> <ul style="list-style-type: none"> The multi-jurisdictional mitigation planning Team should consist of a broad range of knowledge, expertise, and interests. Consider expanding the Planning committee to include other County level, local level, business, academia, and special interest participants. Such as, Erie County Department of Environment & Planning, a Local Disaster Coordinator, Niagra Mohawk, Erie County Association of School Boards, and Erie County Department of Senior Services, etc. 		
<p>C. Does the 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?)</p>	<p>Section 3 P. 2 Planning Process</p> <p>Pg 11</p>	<p>While the plan indicates that the public was encouraged [to participate] in a variety of ways, only one example is provided.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> Clearly explain and demonstrate how the public was given the opportunity to comment on the plan during the drafting stage, and prior to plan approval. <p>Recommended Revision:</p> <ul style="list-style-type: none"> Consider expanding Planning Committee to include representation of the general public. 	X	
<p>D. Was there an opportunity for neighboring jurisdictions, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process?</p>	<p>Not provided</p> <p>Pg 11</p>	<p>Required Revisions:</p> <ul style="list-style-type: none"> Provide adequate opportunity for neighboring/adjacent jurisdictions/interests to be involved in this multi-jurisdictional planning process (neighboring = outside Erie County). <p>Recommended Revision:</p> <ul style="list-style-type: none"> Include participation by Erie-Niagara Regional Partnership 	X	
<p>E. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?</p>	<p>Section 3 P. 2 Planning Process</p> <p>Pg 5, 10</p>	<p>The text indicates that individual municipality plans were reviewed while writing this plan. However, there is no indication that any information was incorporated. Further, a quick search indicates that the County of Erie has recently completed an update to the County Comprehensive Plan</p> <p>Required Revision:</p> <ul style="list-style-type: none"> Since this plan is not intended to pre-empt any existing individual community plan, and further, since as it is stated 	X	

		<p>“as a result of this process several communities have developed or enhanced their communities’ disaster response /mitigation committee” it is a must to identify and describe those existing plans and the level of review, and information from within those/any plans which was utilized or supplemented in the development of this plan.</p> <p>Recommended Revision:</p> <ul style="list-style-type: none"> Those communities and plans with existing plans should be recognized for their proactive efforts. 			
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.*

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
<p>A. Does the plan include a description of the types of all natural hazards that affect the jurisdiction?</p> <p>If the hazard identification omits (without explanation) any hazards commonly recognized as threats to the jurisdiction, this part of the plan cannot receive a Satisfactory score.</p> <p>Consult with the State Hazard Mitigation Officer to identify applicable hazards that may occur in the planning area.</p>	<p>Section 4 Risk Assessment</p> <p>Pg 19</p> <p>Pg 20</p> <p>Pg 41</p>	<p>At the County level and by some local jurisdictions HAZNY was used to identify and rank hazards. It is not clear which of those local governments have completed the HAZNY process. And, further it is not clear how differences (if any) between county and local HAZNY findings are reconciled in this plan. It is interesting that flood ranks relatively low on the list when it is one of the most dangerous and costly of the natural hazards from a national perspective. The “Flood Damage Reduction Measures” booklet included in the material submitted indicates that 40 of the 44 jurisdictions have had flood damage claims.</p> <p>Required Revision:</p> <ul style="list-style-type: none"> Establish and describe the process for identifying and reconciling differences in the ranking of natural hazards from one community to the next, and/or the county. Clearly define and describe the reason for all those identified hazards that are considered unnecessary to be further profiled in the plan (i.e. mine collapse). 	X	

	Pg 30, 32	<ul style="list-style-type: none"> Clearly explain the reason for adding hazard types when not identified through the HAZNY process (i.e. Landslide/Soil Subsidence, wave action). 		
SUMMARY SCORE			X	

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.e., geographic area affected) of each natural hazard addressed in the plan?	Hazard Analysis Report Section Pg 21 - 40	<p>Locations for all natural hazards are not clearly located. Sheets with map titles; "Document 1" through "24" were included in the plan that was reviewed but they were blank. There were maps for some hazards, but not all. Some hazards discussed are not listed in the HAZNY list (e.g.: wave action/seiche, landslide). Combining flood and ice jam hazards in a single brief discussion is not recommended because it fails to differentiate the causes and effects of different kinds of flooding.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> For flood, mine collapse, wildfire, wave action, extreme temperatures, describe the hazard's location or geographical area that would be affected. <p>Recommended Revisions:</p> <ul style="list-style-type: none"> When appropriate, identify on a map the areas affected by each identified hazard. A composite map (i.e., a map showing combined information from different thematic map layers) may be provided for hazards with a recognizable geographic extent, such as floods, coastal storms, wildfires, tsunamis, and landslides if the individual hazard boundaries remain legible. See <i>Understanding Your Risks</i> (FEMA 386-2), Step 2, pages 2-3 to 2-6 and Step 3, page 3-6 for information on mapping techniques. Note any data limitations for profiling hazards and include in the mitigation strategy actions for collecting the data to 	X	

		complete and improve future risk analysis efforts.		
B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?	Hazard Analysis Report Section Pg 21 - 40	The hazard profile descriptions do not address extent for each hazard. Required Revisions: <ul style="list-style-type: none"> For flooding, mine collapse, wildfire, landslide, wave action and ice jam, describe the hazard’s extent (i.e., magnitude or severity). Recommended Revisions: <ul style="list-style-type: none"> Include in the hazard profile conditions such as topography, soil characteristics, and meteorological conditions that may exacerbate or mitigate the potential effects of a particular hazard. See <i>Understanding Your Risks</i> (FEMA 386-2), page 2-13 for information on these conditions and their effect on hazards like floods. Note any data limitations for profiling hazards and include in the mitigation strategy actions for collecting the data to complete and improve future risk analysis efforts. 	X	
C. Does the plan provide information on previous occurrences of each hazard addressed in the plan?	Hazard Analysis Report Section Pg 21 - 40	No information on previous occurrences is included for earthquakes or mine collapse. Other hazards have a mix of explicit and general information describing previous occurrences. Required Revisions: <ul style="list-style-type: none"> For earthquakes and mine collapse, describe past events in or near the planning area. Recommended Revisions: <ul style="list-style-type: none"> Include in the description for each event the date of occurrence, damages that occurred in or near the planning area (e.g., property damage, cost of recovery, lives lost); level of severity (i.e., flood depth or extent, wind speeds, earthquake intensity, etc.); and duration of the event. List the sources of information used or consulted for identifying and describing past hazard events. These sources can include: the State hazard mitigation plan, 	X	

		<p>experts, interviews with long-time residents, newspapers, etc.</p> <ul style="list-style-type: none"> Note any data limitations for profiling hazards and include in the mitigation strategy actions for collecting the data to complete and improve future risk analysis efforts. 		
D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?	<p>Hazard Analysis Report Section</p> <p>Pg 21 - 40</p>	<p>Probability is not addressed for each hazard.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> If the statistical probability of a hazard event is not known, provide a qualitative probability of its occurrence (e.g., low, medium, high). <p>Recommended Revisions:</p> <ul style="list-style-type: none"> Describe the methodology or sources used to determine the probability for each natural hazard. Note any data limitations for profiling hazards and include in the mitigation strategy actions for collecting the data to complete and improve future risk analysis efforts. 	X	
SUMMARY SCORE			X	

Additional Suggestions For Profiling Hazards:

- Provide sufficient information in order to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.
- Discuss hazards that were considered but determined to be of low risk, and determine and state that these will not be addressed further in the plan.
- Number/identify all pages, tables, maps, etc..
- Reference tables and maps in the text.

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 plan include an overall summary description of the jurisdiction’s vulnerability to each hazard?	Hazard Analysis Report Section Pg 21 - 32	The text in the paragraph “Assessing Vulnerability” says “ Disaster Coordinators are in the process of conducting a vulnerability assessment...” The work is apparently not complete and there is consequently no overall summary by jurisdiction of its vulnerability to each identified hazard. Required Revisions: <ul style="list-style-type: none"> • Complete and describe the jurisdiction’s vulnerability to each identified hazard. Recommended Revisions: <ul style="list-style-type: none"> • Note any data limitations for assessing vulnerability and include in the mitigation strategy actions for collecting the data to improve future vulnerability assessments efforts. • For each jurisdiction, this plan should discuss the number of people or special populations at risk, such as the elderly, disabled, or others with special needs, their consideration in the risk assessment will enable the development of appropriate actions to assist such populations during or after a disaster. 	X	
B. Does the plan address the impact of each hazard on the jurisdiction?	Hazard Analysis Report Section Pg 21 - 32	For reasons described above, the individual jurisdictions have apparently not addressed the impact of each hazard on their community. Required Revisions: <ul style="list-style-type: none"> • Describe the hazard’s impact (e.g., kind and level of damage to buildings, infrastructure, and critical facilities, and activities including evacuation and emergency services). Recommended Revisions: <ul style="list-style-type: none"> • This information could be presented in terms of dollar value, percent of damage, days of duration, etc. 	X	

		<ul style="list-style-type: none"> • Present the structure information in a table format, indicating the impact (e.g., high, medium, low) by hazard. For example wind might have a low impact on a solid building, but because the building is in the floodplain the flood impact would be high. Explain the rating system used and the process followed to determine impact. • Note any data limitations for assessing vulnerability and include in the mitigation strategy actions for collecting the data to improve future vulnerability assessment efforts. 		
SUMMARY SCORE			X	

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 plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?	Hazard Analysis Report Section	<p>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</p> <p>There are no descriptions of individual jurisdiction vulnerability.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • For each jurisdiction and for each hazard, identify the type and number of existing buildings, infrastructure, and critical facilities within each hazard area. <p>Additional Suggestions:</p> <ul style="list-style-type: none"> • Identify the kinds of buildings (e.g., residential, commercial, institutional, recreational, industrial, and municipal); infrastructure, (e.g., roadways, bridges, utilities, and communications systems); and critical facilities (e.g., shelters, hospitals, police, and fire stations). • Describe the process or method used for identifying existing buildings, infrastructure, and critical facilities. • If limited data are available, focus on identifying critical facilities located in the identified hazard areas and identify the collection of data for the remaining buildings and 	X	

		<p>infrastructure as an action item in the mitigation strategy.</p> <ul style="list-style-type: none"> While not required by the Rule, it is useful to inventory structures located within areas that have repeatedly flooded and collect information on past insurance claims. At a minimum, describe repetitive loss neighborhoods or areas in the plan. 		
<p>B. Does the 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>Not found</p>	<p>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing. No discussion of future conditions was found.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> For each jurisdiction and each hazard, identify the type and number of future buildings, infrastructure, and critical facilities within each hazard area. <p>Additional Suggestions:</p> <ul style="list-style-type: none"> Identify the types of buildings (e.g., residential, commercial, institutional, recreational, industrial, and municipal buildings); infrastructure, (e.g., roadways, bridges, utilities, and communications systems); and critical facilities (e.g., shelters, hospitals, police, and fire stations). Information on proposed buildings, infrastructure, and critical facilities, including planned and approved development, may be based on information in the comprehensive or land use plan and zoning maps. Identify buildings, infrastructure, and critical facilities that are vulnerable to more than one hazard. Describe the process or method used for identifying future buildings, infrastructure, and critical facilities. Note any data limitations for determining the type and numbers of future buildings, infrastructure, and critical facilities and include in the mitigation strategy actions for collecting the data to improve future vulnerability assessment efforts. <p>For a discussion on identifying vulnerable structures and detailed inventories, see <i>Understanding Your Risks</i> (FEMA 386-2), Step 3, Worksheet #3a and #3b, Inventory Assets.</p>	<p>X</p>	

SUMMARY SCORE

X

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)(i)(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
A. Does the plan estimate potential dollar losses to vulnerable structures?	Hazard Analysis Report Section	<p>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</p> <p>Two tables were found at the end of this section. One is titled "County Wide Hazards" and one titled "Flood, Ice Jam". Methodology is not clear and is questionable given the fact that very different hazards (like extreme temperature and tornado) are deemed to have equal potential dollar losses. Having these tables meets the minimal requirements, but it provides information that is of limited value.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • Provide an estimate for each identified hazard. • 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. • Select the most likely event for each identified hazard (e.g., 100-year flood) and estimate the likely losses associated with this event. • Include a composite loss map to locate high potential loss areas to help the jurisdiction focus its mitigation priorities. • Note any data limitations for estimating losses and include in the mitigation strategy actions for collecting the data to improve future loss estimate efforts. 		X
B. Does the plan describe the methodology used to prepare the estimate?	Hazard Analysis Report Section	<p>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</p> <p>The plan indicates that "...an inventory asset chart derived from the FEMA Hazard Mitigation Workbook was used." The text does not indicate it strictly followed the workbook</p>	X	

		<p>methodology – it indicates that a chart was “derived”, opening the possibility that some variation was used. This description is vague and without more detail or an example, it is not a clear description of the methodology.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> Describe the methodology used to estimate losses. <p>For a step-by-step method for estimating losses, see <i>Understanding Your Risks</i> (FEMA 386-2), Step 4.</p>		
SUMMARY SCORE				X

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
A. Does the plan describe land uses and development trends?	Not found	<p>Note: A “Needs Improvement” score on this requirement will not preclude the plan from passing.</p> <p>There is no discussion of land use and development trends.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> Provide a general overview of land uses (e.g., location and kind of use) by jurisdiction. Describe development trends occurring within the jurisdiction (e.g., describe the types of development occurring, location, expected intensity, and pace by land use). <p>Additional Suggestions:</p> <ul style="list-style-type: none"> Describe existing land use densities in the identified hazard areas. Describe future land use density. Such information may be obtained from your regional or local planning office, comprehensive plan, or zoning maps. Future development information helps to define appropriate mitigation approaches, and the locations in which these approaches should be applied. This information can also be used reduce development in hazard areas. 	X	

		<ul style="list-style-type: none"> • Overlay a land use map with identified hazard areas. • Note any data limitations for determining development trends and include in the mitigation strategy actions for collecting the data to complete and improve future vulnerability assessment efforts. 		
SUMMARY SCORE			X	

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 plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks?	Not found Pg 19	There is no risk assessment by jurisdiction. Required Revisions: <ul style="list-style-type: none"> • For each jurisdiction identify and asses all risks that are not common to the entire planning area. Recommended Revisions: <ul style="list-style-type: none"> • Prepare a matrix of the various jurisdictions and the range of hazards to show which risks are common and which are unique. For more information on creating a detailed risk assessment, see <i>Understanding Your Risks</i> (FEMA 386-2), Steps 1 - 4.	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.

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 plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to	Not found	The plan apparently does not contain this information.	X	

<p>the identified hazards? (GOALS are long-term; represent what the community wants to achieve, such as “eliminate flood damage”; and are based on the risk assessment findings.)</p>	<p>Pg 58 - 70</p>	<p>Required Revisions:</p> <ul style="list-style-type: none"> • Describe the hazard reduction goals to reduce or avoid hazard vulnerabilities. <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • Explain how the goals are intended to reduce or avoid vulnerability. • Describe how these goals were developed. The goals could be developed early in the planning process and refined based on the risk assessment findings, or developed entirely after the risk assessment is completed. They should also be compatible with the goals of the jurisdiction as expressed in other documents. • Although the Rule does not require a description of objectives, jurisdictions are highly encouraged to include objectives developed to achieve the goals so that the connection between goals, objectives, and mitigation actions is clear. <p>For more information on developing local mitigation goals and objectives, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 1.</p>			
SUMMARY SCORE				X	

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 plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?	None Found Pg 57 - 70	<p>The plan apparently does not address any mitigation actions in a separate section. Some mitigation actions were included in the profile discussion. Not all hazards have actions in the profile discussion. Other reports attached to the plan have mitigation actions included in the reports, but no direct reference to the attachments are made to indicate that the mitigation actions are to be considered part of the plan's actions and strategies.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> List all mitigation actions and projects considered, by hazard. Explain the analysis followed for selecting mitigation actions and projects. (Not all of the mitigation actions identified may ultimately be included due to prohibitive costs, scale, low benefit/cost analysis ratios, or other concerns.) <p>Recommended Revisions:</p> <ul style="list-style-type: none"> Add a separate section to address mitigation actions. Extract all actions in attached reports that are considered to be part of this plan. List actions to address data limitations. One way to meet this requirement would be to start by identifying and evaluating potential loss-reduction actions for each objective. Then, narrow down this list of potential actions to include only those that have been deemed the most feasible after consideration of a range of factors such as costs, benefits, expected degree of public support, local capabilities, and potential environmental impacts. Clearly describe the evaluation process, explaining why certain action items were screened out. 	X	

		<ul style="list-style-type: none"> • Discuss who participated in the process. <p>For more details on identifying and evaluating mitigation actions, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 2.</p>		
B Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?	None Found Pg 54	<p>No actions were found in the plan.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> • Include actions that address new buildings and infrastructure. <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • While the Rule does not specify critical facilities, the plan should also address new critical facilities. • Develop a matrix to show what actions address specific hazards and new buildings and infrastructure. <p>For more details on identifying and evaluating mitigation actions, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 2.</p>	X	
C. Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?	None Found Pg 54 - 55	<p>No actions were found in the plan.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> • Include actions that address existing buildings and infrastructure. <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • While the Rule does not specify critical facilities, the plan should also address existing critical facilities. • Develop a matrix to show what actions address specific hazards and existing buildings and infrastructure. <p>For more details on identifying and evaluating mitigation actions, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 2.</p>	X	
SUMMARY SCORE			X	

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 mitigation strategy include how the actions are prioritized ? (For example, is there a discussion of the process and criteria used?)	None Found Pg 56	There is no prioritization. Required Revisions: <ul style="list-style-type: none"> Describe the method for prioritizing actions. (In addition to cost benefit review, considerations may include social impact, technical feasibility, administrative capabilities, and political and legal effects, as well as environmental issues.) For a detailed description of the development of the mitigation strategy or action plan, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 3.	X	
B. Does the mitigation strategy address how the actions will be implemented and administered ? (For example, does it identify the responsible department, existing and potential resources, and timeframe?)	None Found Pg 57	There is no implementation strategy. Required Revisions: <ul style="list-style-type: none"> Describe how the actions will be implemented and administered. Include in the description the responsible party(s)/agency(s), the funding source(s), and the target completion dates for each action. Recommended Revisions: <ul style="list-style-type: none"> Include a cost estimate and/or resources required for each action, when possible. For a detailed description of the development of the mitigation strategy or action plan, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 3.	X	
C. Does the prioritization process include an emphasis on the use of a cost-benefit review (see page 3-36 of <i>Multi-Hazard Mitigation Planning Guidance</i>) to maximize benefits?	None Found Pg 57	There is no cost benefit review. Required Revisions: <ul style="list-style-type: none"> Describe the cost benefit review performed during the prioritization process to identify actions/projects with the greatest benefits. (If cost and benefit data are missing, a qualitative assessment of the comparative benefits will 	X	

		suffice.) For a detailed description of the development of the mitigation strategy or action plan, see <i>Developing the Mitigation Plan</i> (FEMA 386-3), Step 3; and <i>Mitigation Benefit Cost Analysis (BCA) Toolkit Compact Disc (CD)</i> .		
SUMMARY SCORE			X	

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 plan include at least one identifiable action item for each jurisdiction requesting FEMA approval of the plan?	None Found Pg 69 - 70	No specific actions are found that apply to any individual jurisdiction. All actions included in the profile section are discussed in general terms. Required Revisions: <ul style="list-style-type: none">Identify at least one mitigation action per jurisdiction. Recommended Revisions: <ul style="list-style-type: none">For each participating jurisdiction, include the responsible party(s)/agency(s), the funding source(s), and the target completion dates for each action in the mitigation strategy section. For more information on the development of the mitigation strategy or action plan, see <i>Developing the Mitigation Plan</i> (386-3), Step 3.	X	
SUMMARY SCORE			X	

PLAN MAINTENANCE PROCESS

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 plan describe the method and schedule for monitoring the plan? (For example, does it identify the party responsible for monitoring and include a schedule for reports, site visits, phone calls, and meetings?)	Section 5 Plan Maintenance Pg 71	The plan calls for County review every three years and local review every two years Required Revisions: <ul style="list-style-type: none"> • Include a description of the method and schedule to monitor the plan. Include in the description the party(s)/agency(s) responsible for ensuring that the monitoring process is accomplished, and how and when the plan will be monitored. Recommended Revisions: <ul style="list-style-type: none"> • Annual monitoring and reporting is part of many mitigation plans. This need not be an exhaustive effort, but will allow each jurisdiction and the County to see if the plan and actions are working as intended. • Monitoring may include periodic reports by agencies involved in implementing actions; parameters to measure the progress of the actions; and action completion dates. For guidance on monitoring the plan, see <i>Bringing the Plan to Life</i> (FEMA 386-4), Step 2.	X	
B. Does the plan describe the method and schedule for evaluating the plan? (For example, does it identify the party responsible for evaluating the plan and include the criteria used to evaluate the plan?)	Section 5 Plan Maintenance. Pg 71	There is no discussion of any evaluation. The plan uses the word "review". The regulation calls for both monitoring and evaluation, which have different meanings. The plan calls for an examination of data related to disasters, but not an examination of the plan itself. Required Revisions: <ul style="list-style-type: none"> • Describe the method and schedule to evaluate the plan. Include in the description the party(s)/agency(s) responsible for evaluating the plan, and how and when the plan will be 	X	

		<p>evaluated.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • Include an evaluation as part of an annual effort and subsequent to any significant hazard event. • The evaluation should assess whether goals and objectives address current and expected conditions; nature or magnitude of risks has changed; current resources are appropriate for implementing the plan; outcomes have occurred as expected; and agencies and other partners participated as originally proposed. <p>For guidance on evaluating the plan, see <i>Bringing the Plan to Life</i> (FEMA 386-4), Step 3.</p>		
C. Does the plan describe the method and schedule for updating the plan within the five-year cycle?	<p>Section 5 Plan Maintenance.</p> <p>Pg 71</p>	<p>The plan calls for County review every 3 years, local review every 2 years and public comment every year. It does not call for any update of the plan.</p> <p>Required Revisions:</p> <ul style="list-style-type: none"> • Describe the method and schedule for the plan update. Include in the description the party(s)/agency(s) responsible for updating the plan, and how and when the plan will be updated. <p>Recommended Revisions:</p> <ul style="list-style-type: none"> • Allow ample time for the review and adoption process to ensure the plan is adopted within the five year cycle. <p>For guidance on updating the plan, see <i>Bringing the Plan to Life</i> (FEMA 386-4), Step 4.</p>	X	
SUMMARY SCORE			X	

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 plan identify other local planning mechanisms available for incorporating the requirements of the	Section 5 Plan Maintenance.	The plan includes a general statement to the effect that each jurisdiction should consider this plan prior to adopting any		X

mitigation plan?	Pg 71, 72	<p>new laws plans etc.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> Identify what jurisdictions can most benefit by inclusion of the requirements of this plan. Prepare a matrix showing the range of other planning mechanisms and identify which apply to each action. <p>For more information on integrating hazard mitigation activities in other initiatives, see <i>Bringing the Plan to Life</i> (FEMA 386-4), Step 2.</p>		
B. Does the plan include a process by which the local government will incorporate the requirements in other plans, when appropriate?	<p>Section 5 Plan Maintenance.</p> <p>Pg 71, 72</p>	The plan includes a general statement to the effect that each jurisdiction should consider this plan prior to adopting any new laws plans etc.		X
SUMMARY SCORE				X

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.

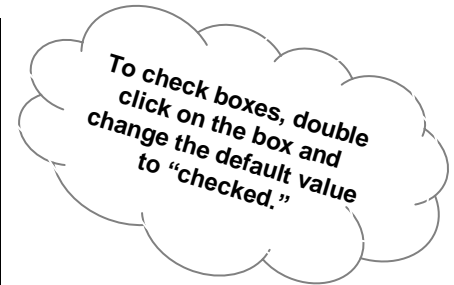
Element	Location in the Plan (section or annex and page #)	Reviewer's Comments	SCORE	
			N	S
A. Does the plan explain how continued public participation will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?)	<p>Section 5 Plan Maintenance.</p> <p>Pg 71</p>	<p>There is a general discussion of public involvement. While the discussion meets the minimum requirement of this criteria, there is little in the way of concrete actions. The responsibility for annual comment is assigned to "Disaster Coordinators and/or the Department of Emergency Services". Notification is to be "via various media outlets". This language is vague.</p> <p>Recommended Revisions:</p> <ul style="list-style-type: none"> Include a schedule for public participation opportunities, who will be responsible for organizing events, who will maintain the Web site, etc. Explain how and when public comments will be integrated into the plan updates. 		X
SUMMARY SCORE				X

Matrix A: Profiling Hazards

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction. **Completing the matrix is not required.**

Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Location		B. Extent		C. Previous Occurrences		D. Probability of Future Events	
	Yes	N	S	N	S	N	S	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input checked="" type="checkbox"/>	Not included	<input type="checkbox"/>	Not included	<input type="checkbox"/>	Not included	<input type="checkbox"/>	Not included	<input type="checkbox"/>
Drought	<input checked="" type="checkbox"/>	Not included	<input type="checkbox"/>	Not included	<input type="checkbox"/>	Not included	<input type="checkbox"/>	Not included	<input type="checkbox"/>
Earthquake	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood (see below)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tornado	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Wildfire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Flood/Ice Jam	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Extreme Temperature	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Severe Storm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other Wave Action / Seiche	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Legend:

§201.6(c)(2)(i) Profiling Hazards

- A. Does the risk assessment identify the location (i.e., geographic area affected) of each hazard addressed in the plan?
- B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the plan?
- D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

Matrix B: Assessing Vulnerability

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each requirement. **Completing the matrix is not required.**

Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

Note: Receiving an N in the shaded columns will not preclude the plan from passing.



Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Overall Summary Description of Vulnerability	B. Hazard Impact		A. Types and Number of Existing Structures in Hazard Area (Estimate)	B. Types and Number of Future Structures in Hazard Area (Estimate)		A. Loss Estimate	B. Methodology			
	Yes		N	S		N	S		N	S	N	S
Avalanche	<input type="checkbox"/>	§201.6(c)(2)(ii) Assessing Vulnerability: Overview	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Flood/Ice Jam	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Extreme Temperature	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Severe Storm	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other Wave Action / Seiche	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Legend:

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the plan include an overall summary description of the jurisdiction's vulnerability to each hazard?
- B. Does the plan address the impact of each hazard on the jurisdiction?

- B. Does the plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the plan describe vulnerability in terms of the types and numbers of existing buildings,

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

- A. Does the plan estimate potential dollar losses to vulnerable structures?
- B. Does the plan describe the methodology used to prepare the estimate?

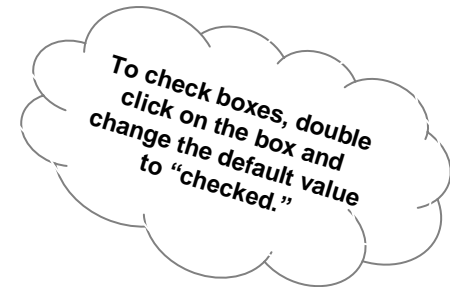
infrastructure, and critical facilities located in the identified hazard areas?

Matrix C: Identification and Analysis of Mitigation Actions

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

Hazard Type	Hazards Identified Per Requirement §201.6(c)(2)(i)	A. Comprehensive Range of Actions and Projects	
	Yes	N	S
Avalanche	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Erosion	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coastal Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam Failure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Drought	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Earthquake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Expansive Soils	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Extreme Heat	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flood	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hailstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hurricane	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land Subsidence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Landslide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Severe Winter Storm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tornado	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tsunami	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Volcano	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wildfire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Windstorm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Legend:

§201.6(c)(3)(ii) Identification and Analysis of Mitigation Actions

A. Does the plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?