LOCAL MITIGATION PLAN REVIEW TOOL

The Local Mitigation Plan Review Tool demonstrates how the Local Mitigation Plan meets the regulation in 44 CFR §201.6 and offers States and FEMA Mitigation Planners an opportunity to provide feedback to the community.

- The <u>Regulation Checklist</u> provides a summary of FEMA's evaluation of whether the Plan has addressed all requirements.
- The <u>Plan Assessment</u> identifies the plan's strengths as well as documents areas for future improvement.
- The <u>Multi-jurisdiction Summary Sheet</u> is an optional worksheet that can be used to document how each jurisdiction met the requirements of the each Element of the Plan (Planning Process; Hazard Identification and Risk Assessment; Mitigation Strategy; Plan Review, Evaluation, and Implementation; and Plan Adoption).

The FEMA Mitigation Planner must reference this *Local Mitigation Plan Review Guide* when completing the *Local Mitigation Plan Review Tool*.

Jurisaiction:	little of F	-	Date of Plan:				
Beaver County	Beaver C	County 2	021 Hazard	08/12/2021			
	Mitigatio	on Plan					
Local Point of Contact:			Address:				
Eric Brewer			351 14 th Street				
Title:			Ambridge, PA 15003				
Director							
Agency:							
Beaver County Emergency Service	·s						
Phone Number:		E-Mail:					
724-775-1700			ebrewer@beave	rcountypa.gov			
State Reviewer:		Title:		Date:			
Ernie Szabo			Planner	8/16/21			
Lime 32000		State !	idilile:	0,10,21			
FEMA Reviewer:		Title:		Date:			
reivia keviewei.		mile.		Date.			
Joshua Norris		MD EIT	Hazard Mitigation	11/1/2021			
Joshida Norris		Planne	_	11/1/2021			
Casey Garnett		Fiailile	•				
casey darnett		\A/\/ EI	Γ Hazard Mitigation				
		Planne	•	'			
		- iaiiii					
Date Received in FEMA Region (inse	ort #)	Suhmiss	sion 1: 8/23/2021	1			
	,		sion 2: 10/29/2021				
Plan Not Approved		24211113					
Plan Approvable Pending Adoptio	n	Require	d revisions address	ed			
Plan Approved		cquii c	a revisions address				
a							

SECTION 1: REGULATION CHECKLIST

INSTRUCTIONS: The Regulation Checklist must be completed by FEMA. The purpose of the Checklist is to identify the location of relevant or applicable content in the Plan by Element/sub-element and to determine if each requirement has been 'Met' or 'Not Met.' The 'Required Revisions' summary at the bottom of each Element must be completed by FEMA to provide a clear explanation of the revisions that are required for plan approval. Required revisions must be explained for each plan sub-element that is 'Not Met.' Sub-elements should be referenced in each summary by using the appropriate numbers (A1, B3, etc.), where applicable. Requirements for each Element and sub-element are described in detail in this *Plan Review Guide* in Section 4, Regulation Checklist.

1. REGULATION CHECKLIST	Location in Plan (section and/or		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	page number)	Met	Met
ELEMENT A. PLANNING PROCESS			
A1. Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction? (Requirement §201.6(c)(1))	Section 3: Pages 21-29, Appendix C, Appendix G	X	
A2. Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process? (Requirement §201.6(b)(2))	Section 3: Pages 21-29 Specifically, Section 3.4: Pages 26-27, Appendix C	X	
A3. Does the Plan document how the public was involved in the planning process during the drafting stage? (Requirement §201.6(b)(1))	Section 3.3: Pages 24-26 Section 3.4: Pages 26-27 Appendix C	X	
A4. Does the Plan describe the review and incorporation of existing plans, studies, reports, and technical information? (Requirement §201.6(b)(3))	Section 3.5: Pages 27-29 Section 5.2.5: Pages 248-251 Appendix A	X	
A5. Is there discussion of how the community(ies) will continue public participation in the plan maintenance process? (Requirement §201.6(c)(4)(iii))	Section 7.3: Page 286	X	
A6. Is there a description of the method and schedule for keeping the plan current (monitoring, evaluating and updating the mitigation plan within a 5-year cycle)? (Requirement §201.6(c)(4)(i))	Section 7.2: Pages 286-287 Appendix I	X	

ELEMENT A:

(PEMA):

Kudos on exec summary

A.2. Good job: Invited neighboring counties

A.2. Comment. Annex c is 421 pages, a table of contents would be handy

REQUIRED REVISIONS:

(Note: Page numbers referenced in the FEMA review comments below are based on the "779778_Beaver_County_HMP" document).

A1. Table 4 – Steering Committee and Table 5 — Local Planning Team does not include at least the name, position, and organization/agency for the representative of each jurisdiction in Beaver County. To meet this requirement, update Table 5 to include the required information or add the missing information in a separate table.

FEMA: As discussed on the 10/13/2021 Beaver County Hazard Mitigation Plan review call, to satisfy the required revision above, the HMP's "MULTI-JURISDICTION SUMMARY SHEET" will be updated to include the missing contact information for each Beaver County jurisdiction.

Appendix B has been updated after our review call which reflects previously missing information.

A1. Appendix C of the HMP does not include adequate documentation of plan participation (for instance a Hazard Identification and Risk Evaluation Worksheet, Capability Assessment Survey, Mitigation Project Opportunity Forms and Mitigation Actions Action, or NFIP Survey form) for 19 jurisdictions (Beaver County, Beaver Falls City, Conway Borough, Daugherty Township, Eastvale Borough, Fallston Borough, Frankfort Springs Borough, Franklin Township, Glasgow Borough, Hopewel1 Township, Koppel Borough, Midland Borough, Monaca Borough, New Brighton Borough, New Sewickley Township, North Sewickley Township, Pulaski Township, South Beaver Township, West Mayfield Borough). Notably, Appendix G does not include the 2021 municipal project opportunity forms as stated on page 26. Instead, Appendix G includes a table summarizing the 2021 municipal project opportunities. To address this revision, add the missing supporting documentation demonstrating jurisdictional participation to the appropriate sections of the HMP.

Keep in mind that for a jurisdiction to be considered participating, the HMP must include at least 2 documented contributions from the jurisdiction to the planning process (form submission, meeting notes documenting attendance, phone call records, and social media records of plan input are viable options).

Appendix C has been updated to reflect the required revisions. All municipalities submitted the required 2 documented contributions with the exception of: Eastvale Borough, North Sewickley Township, Patterson Heights Borough, Raccoon Township, West Mayfield Borough.

A3: Per the 2011 Local Mitigation Planning Guide, A3(b), "the opportunity for participation **must** occur during the plan development, which is <u>prior to the comment period on the final plan</u> and prior to the plan approval / adoption." Based on *Table 6 – HMP Timeline*, the HMP was made available for public review on 6/29/2021 and supporting documentation in Appendix C depicting public input is dated after 9/26/2021 (namely 7/11/2021, 7/13/2021, and 7/26/2021). Please add documentation to Appendix C demonstrating that public input was solicited throughout the planning process (at least before 6/29/2021).

Please see Page 486 of the revised Appendix C which includes the date of February 25, 2021 in which public outreach was conducted (Community Preparedness Survey). Additionally, page 491 includes the date of April 20, 2021 which the Risk Assessment presentation was posted/advertised to the public.

FORMATING & GRAMMAR REVISIONS:

- Remove the excess "." after the word "irregularly" from the following sentence on page 87:
 "Evidence of past sliding such as tilted utility lines, tilted trees, cracks in the ground and irregularly. surfaced ground."
- Remove duplicative documentation from Appendix C. For instance, multiple (identical) capability assessment surveys for Chippewa Township are included in Appendix C.
- Correct formatting and spacing inconsistencies. For example, on page 96 correct the font size and spacing for " $\frac{1}{3}$ of."

RECOMMENDED REVISIONS:

A2. Well done inviting relevant plan participants, including health care representatives, and neighboring counties in the Beaver County HMP Planning process. Notably, page 9 states "Beaver County's top leading industry includes elementary and secondary schoolings... Beaver County's top employer is Great Arrow Builders LLC." Consider inviting some of these major employers/industries to participate in future plan updates, as well as other neighboring counties from Ohio and West Virginia.

A4: Table 3 – Beaver County Race Origins includes demographic information based on 2019 Census Bureau data. Consider updating this table to include 2020 data available here.

A5: In addition to posting the HMP to the Beaver County Website for continued public input, add language to Section 7.3 Continued Public Involvement stating that Beaver County will solicit and review public input at annual plan review meetings.

ELEMENT B. HAZARD IDENTIFICATION AND RISK ASSESSMENT

1. REGULATION CHECKLIST	Location in Plan (section and/or		Not
Regulation (44 CFR 201.6 Local Mitigation Plans)	page number)	Met	Met
B1. Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction(s)? (Requirement §201.6(c)(2)(i))	Section 4.2.2: Pages 33-37 Section 4.3: Pages 39-218 Appendix D Appendix E Appendix F	X	
B2. Does the Plan include information on previous occurrences of hazard events and on the probability of future hazard events for each jurisdiction? (Requirement §201.6(c)(2)(i))	Section 4.2: Pages 31-39 Section 4.3 Past Occurrences sections of each hazard: Pages 39-218 Appendix D Appendix F	Х	
B3. Is there a description of each identified hazard's impact on the community as well as an overall summary of the community's vulnerability for each jurisdiction? (Requirement §201.6(c)(2)(ii))	Section 4.2: Pages 31-39 Section 4.3 Vulnerability sections of each hazard: Pages 39- 218 Section 4.4.3: Page 230 Appendix D Appendix F	X	
B4. Does the Plan address NFIP insured structures within the jurisdiction that have been repetitively damaged by floods? (Requirement §201.6(c)(2)(ii))	Sections 4.3.3.3 – 4.3.3.4: Pages 63 - 73 Section 5.2.1: Pages 234-239 Table 21 Page 70	X	

ELEMENT B:

(PEMA):

B.4. Question. Could not find the FEMA LMPRG required breakout of SRL and RL by single, multi and commercial. Was this not available from PIVOT?

Table 19 and 20 amended to satisfy this requirement.

REQUIRED REVISIONS

B3: Table 67, 2010 -2019 Population Change includes population data for each jurisdiction in Beaver County (2010 census, 2015 estimates, 2019 estimates and percent of change from 1010 – 2019), but no description of how these changes impact community vulnerability is included. Explain how population changes in each jurisdiction have increased, decreased, and (when appropriate) not impacted the vulnerability of community assets. The added narrative should underscore why the population changes are significant in terms of Beaver

County hazard risk.

Please see the screenshot below of a sentence added to the HMP on page 232 which should satisfy the required revision stated above.

Beaver County, Pennsylvania 2021 Hazard Mitigation Plan

between 2010 and the 2019 estimate as identified in *Table 67 – Population Change in Beaver County from 2010-2019*. Vulnerability to all hazards in Beaver County is slightly decreased as a result of the estimated 3.8% decrease in population. Currently, a Shell Cracker Plant is being constructed in a region of the County. This region, currently, has an increase of population due to the temporary workers. The Beaver County LPT will continue to assess the change in vulnerability in this area once the Shell Cracker Plant becomes operational.

Table 67 - 2010-2019 Population Change

Population Change in Beaver County from 2010-2019									
Municipality	2010 Census	2015 Estimates	2019 Estimates	Percent of Change 2010-2019 Estimate					
Ambridge Borough	7,050	6,853	6,601	-6.4%					
Baden Borough	4,135	4,018	3,880	-6.2%					
Beaver Borough	4,531	4,412	4,266	-5.8%					
Big Beaver Borough	1,970	1,918	1,857	-5.7%					
Bridgewater Borough	704	691	825	+7.2					
Brighton Township	8,227	8,347	8,267	-4.9%					
Center Township	11,795	11,559	11,459	-2.8%					
Chippewa Township	7,620	7,745	7,560	-0.8%					
City of Aliquippa	9,438	9,180	8,844	-6.3%					
City of Beaver Falls	8,987	8,665	8,332	-7.3%					
Conway Borough	2.176	2.138	2.067	-5.0%					

B3: Include narrative summarizing what the HAZUS level II analysis results on page 61 to 63 mean in terms of Beaver County flood risk. For instance, explain how and if the HAZUS analysis demonstrates an increase or decrease in flood risk for particular jurisdictions in Beaver County.

Please see the screenshot below which displays narrative added to Pg. 62 of the Flooding profile as requested.

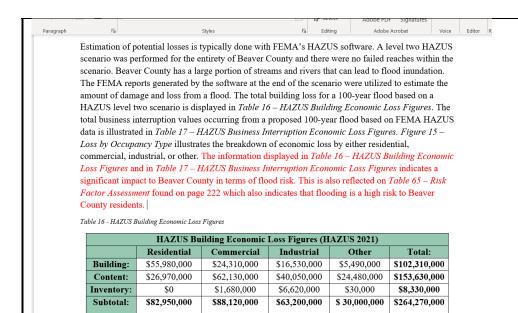


Table 17 - HAZUS Business Interruption Economic Loss Figures

RECOMMENDED REVISIONS:

B1: In section 4.3.10. of the risk assessment, Dam and Levee Failure, include FEMA's definition of Dams: "An artificial barrier that has the ability to impound water, wastewater, or any liquid-borne material, for the purpose of storage or control of water" (Federal Guidelines for Dam Safety, P-148, accessible https://example.com/here/.

B1: Page 54 states "...both Figure 13 and the one at the following hyper-link show earthquake epicenters within close enough proximity to the county to produce some effects in the county:..." Please change "the one" to a more discrete term such as the name of the file in question. Additional, the link in question (http://elibrary.dcnr.pa.gov/GetDocument?docId=1751247&DocName=Map69_EQCatalog-Epicenter_Pa) leads the reader to download a folder including a list of 5 subfolders. Either explain in the narrative what each of these folders refer to and their significance or remove the extraneous content from the link.

B1: To refine readability and flow, reorganize elements of the plan to provide figures directly after they are mentioned.

B4: Update Tables

B4: In select hazard profiles, vulnerable populations are discussed, in some they are not. Additional information would help clarify hazard vulnerability throughout Beaver County. This could include data on special high-risk groups such as elderly, low-income, or disabled populations, or the number of people within previously identified hazard areas that could be impacted. An example of an overall summary is a list of key issues or problem statements that clearly describes the community's greatest vulnerabilities and that will be addressed in the mitigation strategy. Examples:

- Section 4.3.2.5: There is no mention of vulnerable populations.
- Section 4.3.3.5: Who is at the heart of these flood-prone areas? Appendix D identifies vulnerable structures and functional needs facilities. What percent of the population of each community is located in the SFHA? Are there any special characteristics of the populations or structures that would make them particularly vulnerable to flooding?

• Sections 4.3.18.5 and 4.3.16.1: These vulnerability assessments briefly mention population impacts, but consider how identifying vulnerable populations could potentially help a community create and prioritize their natural hazards mitigation projects as well.

1. REGULATION CHECKLIST Regulation (44 CFR 201.6 Local Mitigation Plans)	Location in Plan (section and/or page number)	Met	NotMet
ELEMENT C. MITIGATION STRATEGY			
C1. Does the plan document each jurisdiction's existing authorities, policies, programs and resources and its ability to expand on and improve these existing policies and programs? (Requirement §201.6(c)(3))	Section 5.2.1; 5.2.2; 5.2.3 and 5.2.4:Pages 234 - 248	X	
C2. Does the Plan address each jurisdiction's participation in the NFIP and continued compliance with NFIP requirements, as appropriate? (Requirement §201.6(c)(3)(ii))	Sections 4.3.3.3 – 4.3.3.4: Pages 63-73 Appendix C	X	
C3. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? (Requirement §201.6(c)(3)(i))	Section 6.2: Pages 261-263	X	
C4. Does the Plan identify and analyze a comprehensive range of specific mitigation actions and projects for each jurisdiction being considered to reduce the effects of hazards, with emphasis on new and existing buildings and infrastructure? (Requirement §201.6(c)(3)(ii))	Section 6.4: Pages 266-285 Appendix G Appendix H	X	
C5. Does the Plan contain an action plan that describes how the actions identified will be prioritized (including cost benefit review), implemented, and administered by each jurisdiction? (Requirement §201.6(c)(3)(iv)); (Requirement §201.6(c)(3)(iii))	Section 6.4: Pages 266-285 Appendix G Appendix H	X	
C6. Does the Plan describe a process by which local governments will integrate the requirements of the mitigation plan into other planning mechanisms, such as comprehensive or capital improvement plans, when appropriate? (Requirement §201.6(c)(4)(ii))	Section 3.5: Pages 27-29 Section 5.2.5: Pages 248-251	X	

ELEMENT C:

(PEMA):

C.4. Question. Pandemic is highest ranked hazard but only one mitigation action that specifically addresses it?

Action 3.1.5 added.

REQUIRED REVISIONS

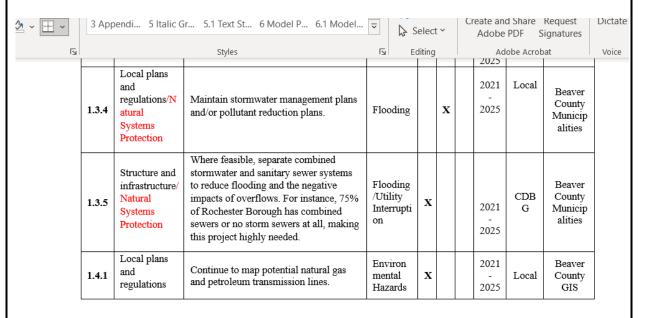
C2: According to the 2011 FEMA Local Plan Review Guide, Element C2(a), "the plan **must** describe each jurisdiction's participation in the NFIP and describe their floodplain management program for continued compliance... The description could include, but is not limited to: Adoption and enforcement of floodplain management requirements, including regulating new construction in Special Flood Hazard Areas (SFHAs); Floodplain identification and mapping, including any local requests for map updates; or Description of community assistance and monitoring activities."

Within Appendix C, there are 17 NFIP survey forms for unique municipalities and 18 duplicative forms labeled in reference to a "Bridgewater" municipality (this appears to be an abbreviation for Bridgewater Borough). Please explain if these duplicative forms were purposefully included and remove them if their inclusion was unintentional. Furthermore, add the missing (completed) municipal NFIP surveys (or other documentation demonstrating each participating jurisdiction's reported NFIP capabilities) to Appendix C.

This error has been addressed in the updated Appendix C.

C4: Table 73 – Mitigation Strategy Technique Matrix, states that Natural Systems Protection mitigation actions are included in Table 74 – Mitigation Action Plan that address the Drought, Flooding, Invasive Species, Pandemic and Infectious Diseases, Wildfires, and Dam/Levee Failure hazards. However, Table 74 only includes mitigation actions labeled as Education and Awareness, Structure and Infrastructure, and Local Planning and Regulations. Please update the Table 74 to resolve this discrepancy by including Natural Systems Protection (NSP) actions. Additional information regarding NSP mitigation actions such as land conservation and wetland protection projects can be found in the 2021 FEMA Building Community Resilience with Nature-Based Solutions Guide, here.

Action category has been updated in the Mitigation Action Plan to reflect actions that pertain to Natural Systems Protection. Please see screenshot below.



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C5: The mitigation actions proposed by communities in Appendix G should be captured in the main body of the plan.

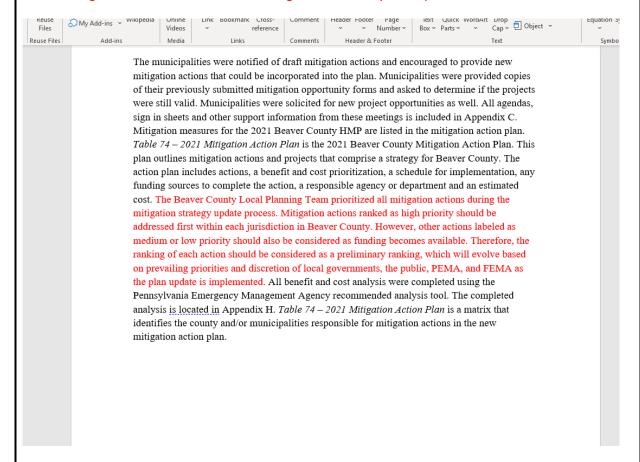
FEMA: The required revision above was changed to a recommended revision based on the discussion that occurred during the 10/13/2021 Beaver County Hazard Mitigation Plan review call.

C5: Add narrative to section 6 explicitly stating the methodology used to analyze and prioritize the mitigation actions identified in table 66. Example language from the Chester County 2021 HMP is included below.

"The Planning Team prioritized proposed mitigation actions during the Mitigation Action Worksheet documentation process. In general, mitigation actions ranked as highest priorities should be addressed

first within each jurisdiction, depending upon funding. However, medium- or low-priority mitigation actions should be considered for implementation as funding becomes available. Therefore, the ranking levels should be considered as a preliminary ranking, which will evolve based on prevailing priorities and discretion of local governments, the public, PEMA, and FEMA as the plan update is implemented."

The following screenshot demonstrates the change made to satisfy the required revision stated above.



C6: Section 5.2.5 Plan Integration states that "discussions about the importance of hazard mitigation integration during the next comprehensive plan update was expressed," but does not provide concrete information regarding the plan integration process. The HMP does state that "Beaver County and the hazard mitigation planning team will utilize the existing maintenance schedule of each plan to incorporate the goals, policies and recommended actions as each plan is updated," but the Plan Maintenance Section (section 7.2) does not state how plan integration is included in the annual plan review, evaluation, and update process.

To meet this requirement, add narrative and/or a diagram describing Beaver County's process and local planning mechanisms (such as existing meetings) used to integrate the data, information, and hazard mitigation goals and actions into other planning mechanisms. If select municipalities follow a different integration process, then add narrative describing the distinct processes.

The following screenshot demonstrates the change made to satisfy the required revision stated above.

Beaver County, Pennsylvania 2021 Hazard Mitigation Plan

Adobe Acrobat

F₂ Editing

- Review the risk assessment section and identify occurrences of hazards within the last year. Identify date, time, damage, <u>fatalities</u> and other specific information of the events.
 Also identify any new hazards that have occurred or increased risk within the county.
- Complete a review and update of capability assessment section. Identify any capability weaknesses.
- Complete a review of the mitigation strategy section. Review the goals and objectives identified in the 2021 HMP and determine if any updates are needed. Provide all mitigation actions and opportunities to the county and municipalities that are applicable. Have all entities complete an action review matrix and document all results in the report. Also, add any new actions that are identified. Complete a review of each mitigation opportunity and identify the status of each opportunity on the opportunity review spreadsheet. All information will be included in the annual review report.

Beaver County Emergency Services will maintain a copy of these records and place them in Appendix I of this plan. Beaver County will continue to work with all municipalities regarding hazard mitigation projects, especially those municipalities that did not submit projects for inclusion in this plan. During the annual plan review, Beaver County will discuss and evaluate how the 2021 Beaver County Hazard Mitigation Plan can be further integrated into other planning documents and initiatives.

7.3. Continued Public Involvement

Beaver County Emergency Services will ensure that the 2021 Beaver County Hazard Mitigation Plan is posted and maintained on the Beaver County website and will continue to encourage public review and comment on the plan. The Beaver County website that the plan will be located at is as follows: www.beavercountypa.gov/Depts/EMS/HazardMitigation.aspx

The public will have access to the 2021 HMP through their local municipal office, the Beaver

C6: According to the 2011 FEMA Local Plan Review Guide, Element C6(d), the "updated plan **must** explain how the jurisdiction(s) incorporated the mitigation plan, when appropriate, into other planning mechanisms as a demonstration of progress in local hazard mitigation efforts." To meet this requirement, add narrative or content that explains how Beaver County jurisdictions have incorporated the Beaver County Hazard Mitigation Plan into other planning mechanisms to advance local hazard mitigation planning.

The following screenshot (green highlighted text) demonstrates the change made to satisfy the required revision stated above.

opportunity and identity the status of each opportunity on the opportunity review spreadsheet. All information will be included in the annual review report.

Beaver County Emergency Services will maintain a copy of these records and place them in Appendix I of this plan. Beaver County will continue to work with all municipalities regarding hazard mitigation projects, especially those municipalities that did not submit projects for inclusion in this plan. During the annual plan review, Beaver County will discuss and evaluate how the 2021 Beaver County Hazard Mitigation Plan can be further integrated into other

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Beaver County, Pennsylvania 2021 Hazard Mitigation Plan

planning documents and initiatives. All jurisdictions within Beaver County will incorporate the 2021 Beaver County Hazard Mitigation Plan into local planning efforts and initiatives to further advance local hazard mitigation planning. For example, local jurisdictions will incorporate the updated HMP into any comprehensive municipal plans. Beaver County Emergency Management Agency has integrated the 2016 Beaver County Hazard Mitigation Plan Risk Assessment section into the Beaver County Emergency Operations Plan. The Risk Assessment section, specifically the vulnerability assessment of each hazard profile is utilized to enhance the Emergency Operations Plan for future use.

7.3. Continued Public Involvement

Beaver County Emergency Services will ensure that the 2021 Beaver County Hazard Mitigation

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RECOMMENDED REVISIONS

C1: In *Table 69 – Capability Self-Assessment Matrix* in addition to or instead of using the more generalized "High" "Medium" "Low" categories of abilities, try incorporating the information found in the Beaver County HMP – Capability Assessment Survey in Appendix C such as specific tool/programs and staff/personnel resources available to communities.

C3 and C4: Include mitigation goals and actions that explicitly promote the equity through the delivery of programs and the analysis of climate change impacts on disaster risk.

C3: Add an objective under goal 6 to the effect of "Pursue grant funded opportunities to rehabilitate Beaver County HHPDS and conduct analyses to better understand and reduce the vulnerabilities of Beaver County HHPDs."

C4: Update the funding column of *Table 1 - 2021 Mitigation Action Plan* to include additional (appropriate) FEMA funding sources such as the Building Resilient Infrastructure and Communities (BRIC), Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA), and the Rehabilitation of High Hazard Potential Dams (HHPDs) grant. Information concerning these funding programs can be found here (for BRIC), here (for HHPD).

For example, add Building Resilient infrastructure and Communities (BRIC) and the Hazard Mitigation Grant Program (HMGP) as funding sources for action 4.2.3 "Municipalities will aggressively enforce building and safety codes for all buildings, including industrial uses" in Table 74.

C4: Add funding estimates to each identified mitigation action in Table 2 - 2021 Mitigation Action Plan, to allow

readers to more readily use the Mitigation Action Plan to begin formulating and scoping mitigation grant applications.

- C4. Add narrative explaining what the content of *Table 75 Municipal Hazard Mitigation Actions Checklist* represents and adding a column header stating what the numbers in the second row indicate (they appear to be mitigation action numbers, but this should be explicitly stated in the interest of clarity).
- C4: Page 86 of the HMP states that "[n]o comprehensive list of landslide incidents in Beaver County is available, as there is no formal reporting system in place..." Add a mitigation action to the mitigation strategy to specifically address this identified data gap.
- C4: Page 105 states "there are currently 2,174 zip codes in Pennsylvania, but the zip code radon test data only covers 986 zip codes. The missing zip codes that report in the database are returned as "N/A" for insufficient data and had fewer than thirty test results or no test results at all." Add a mitigation action to the mitigation strategy to specifically address this identified data gap.
- C4: Add a mitigation action that promotes the adoption and enforcement of at least the latest 2 editions of the International Building Codes (IBC) and International Residential Codes (IRC). Note that these increases project eligibility scores for FY21 BRIC subapplications that undergo technical review by FEMA.
- C4: Update the text of p. 240 to state that there are "nineteen creditable activities" instead of "eighteen credible activities" in the CRS program.
- C4: Include a mitigation action to begin implementing plan integration efforts across Beaver County plans that impact land use, development, mitigation, and resilience.
- C4: Consider including mitigation actions identified in other County Plans within the HMP in more detail (for instance noting their mitigation impact(s), lead agency, estimated cost, and funding source information).
- C4: Include a mitigation action that captures the five primary components which help manage invasive plants listed on pg. 85.
- C5: The mitigation actions proposed by communities in Appendix G should be captured in the main body of the plan.

ELEMENT D. PLAN REVIEW, EVALUATION, AND IMPLE updates only)	MENTATION (applicable	to plan	
D1. Was the plan revised to reflect changes in development? (Requirement §201.6(d)(3))	Section 2.3 and 2.4: Pages 10-20 Section 4.4.4: Pages 230-232	X	
D2. Was the plan revised to reflect progress in local mitigation efforts? (Requirement §201.6(d)(3))	Section 6.4: Pages 266-285	X	
D3. Was the plan revised to reflect changes in priorities? (Requirement §201.6(d)(3))	Section 3: Pages 21-29 Section 4.4.1 and 4.4.2: Pages 218- 229 Section 6: Pages 252-285 Appendix H	X	

ELEMENT D: REQUIRED REVISIONS

REQUIRED REVISION

D1. Add summary narrative to section 4.4.4., Future Development and Vulnerability describing how changes in development have impacted (increased, decreased, or not affected) hazard risk in Beaver County. Include expected land uses and growth expected over the next five to ten years.

Please see the screenshot below which reflects a change made to section 4.4.4.

The 2019 estimated population for Beaver County is 163,346 which is 6,561 less than the 2010 census. There was an overall decrease of 3.8% in population based on the estimate. Three municipalities have seen population increases while the remaining had decreases in the period

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between 2010 and the 2019 estimate as identified in *Table 67 – Population Change in Beaver County from 2010-2019*. Vulnerability to all hazards in Beaver County is slightly decreased as a result of the estimated 3.8% decrease in population. Currently, a Shell Cracker Plant is being constructed in a region of the County. This region, currently, has an increase of population due to the temporary workers. The Beaver County LPT will continue to assess the change in vulnerability in this area once the Shell Cracker Plant becomes operational.

Table 67 - 2010-2019 Population Change

Population Change in Beaver County from 2010-2019							
Municipality	2010 Census	2015 Estimates	2019 Estimates	Percent of Change 2010-2019 Estimate			

ELEMENT E. PLAN ADOPTION E1. Does the Plan include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval? (Requirement §201.6(c)(5))

E2. For multi-jurisdictional plans, has each jurisdiction requesting approval of the plan documented formal plan adoption?

(Requirement §201.6(c)(5))

1. REGULATION CHECKLIST

Location in Plan (section and/or page number)

Not Met

Met

Regulation (44 CFR 201.6 Local Mitigation Plans)

ELEMENT E: REQUIRED REVISIONS

OPTIONAL: HIGH HAZARD POTENTIAL DAM RISKS			
HHPD1. Did Element A4 (planning process) describe the incorporation of existing plans, studies, reports, and technical	Section 5.2.5 Plan Integration on page	X	
information for high hazard potential dams?	248-250		
HHPD2. Did Element B3 (risk assessment) address HHPDs?	Section 4.3.10 Dam		X
	and Levee Failure		
	on pages 132-139		
HHPD3. Did Element C3 (mitigation goals) include mitigation goals	Objective 6.1 under		X
to reduce long-term vulnerabilities from high hazard potential dams	goal 6 on page 263		
that pose an unacceptable risk to the public?			
HHPD4. Did Element C4-C5 (mitigation actions) address HHPDs	Action 6.1.1, 6.1.2,	X	
prioritize mitigation actions to reduce vulnerabilities from high	and 6.1.3 on page		
hazard potential dams that pose an unacceptable risk to the public?	275		

REQUIRED REVISIONS

RECOMMENDED REVISIONS (Required to Meet HHPD Requirements)

HHPD2: The plan does not provide a summary description of *all dam risk*, which consists of incremental, non-breach, and residual risk. With respect to dams, incremental risk is described briefly in sections 4.3.10.1 and 4.3.10.2. However, non-breach and residual risk are not described. To meet this requirement, please add narrative describing non-breach and residual risk with respect to at least Beaver County eligible high hazard potential dams. If insufficient information is available to describe non-breach and residual risk in Beaver County, please add language explaining this limitation and include the definition of the three *all dam risk* component concepts. Pertinent definitions and example language that would address this revision are included below.

Definitions:

Incremental Risk: The risk (likelihood and consequences) to the pool area and downstream floodplain occupants that can be attributed to the presence of the dam should the dam breach prior or subsequent to overtopping, or undergo component malfunction or misoperation, where the consequences considered are over and above those that would occur without dam breach. The consequences typically are due to downstream inundation, but loss of the pool can result in significant consequences in the pool area upstream of the dam.

Non-Breach Risk: The risk in the reservoir pool area and affected downstream floodplain due to 'normal' dam operation of the dam (e.g., large spillway flows within the design capacity that exceed channel capacity) or 'overtopping of the dam without breaching' scenarios.

Residual Risk: The risk that remains after all mitigation actions and risk reduction actions have been completed. With respect to dams, FEMA defines residual risk as "risk remaining at any time" (FEMA, 2015, p A-2). It is the risk that remains after decisions related to a specific dam safety issue are made and prudent actions have been taken to address the risk. It is the remote risk associated with a condition that was judged to not be a credible dam safety issue.

Source: "Rehabilitation of High Hazard Potential Dams Grant Program Guidance," June 2020

Example Language:

At this time, insufficient information is available to conduct a substantive analysis of incremental, non-breach and residual risk relative to Beaver County's high hazard potential dams. However, it is acknowledged that incremental risk is "the risk (likelihood and consequences) to the pool area and downstream floodplain occupants that can be attributed to the presence of the dam should the dam breach prior or subsequent to overtopping, or undergo component malfunction or misoperation, where the consequences considered are over and above those that would occur without dam breach;" non-breach risk is "the risk in the reservoir pool area and affected downstream floodplain due to 'normal' dam operation of the dam (e.g., large spillway flows within the design capacity that exceed channel capacity) or 'overtopping of the dam without breaching' scenarios;" and residual risk is "the risk that remains after decisions related to a specific dam safety issue are made and prudent actions have been taken to address the risk. It is the remote risk associated with a condition that was judged to not be a credible dam safety issue" (FEMA, 2020 Rehabilitation of High Hazard Potential Dams Grant Program Guidance).

Spillway releases related to non-breach dam failure events pose the risk of inundating upstream and downstream communities by potentially introducing adverse impacts to water quality, residential and commercial structures, local economies, the environment, transportation routes, and critical facilities within Beaver County.

HHPD2: Section 4.3.3.2 notes that the flooding hazard has the potential to trigger dam failure, but to satisfy this requirement at least add narrative describing how the cascading impacts of other hazards such as storms, seismic events, landslides, wildfires, or other hazards impact the vulnerabilities of HHPDs.

HHPD2: Section 4.3.10 includes a brief narrative description of potential significant social, economic, and environmental impacts of Beaver County dams and includes their location, but to satisfy this requirement add (at least) narrative describing the size of populations at risk (PAR) from eligible HHPDs in Beaver County and potential impacts to institutions and critical infrastructure/facilities/lifelines. The addition of a table of Beaver County HHPD PAR information and infrastructure impacts is recommended.

HHPD2: Add narrative describing the methodology and/or assumptions for risk data and inundation modeling. If such information is unavailable, include documentation of limitations and the approach to address deficiencies.

HHPD3: Link proposed actions for reducing long-term vulnerabilities from HHPDs to other HMP goals. To address this revision, one may add a column to Table 74 or a separate table that identifies which goals align with each mitigation action and clearly depict how mitigation actions 6.1.1, 6.1.2, 6.1.3 satisfies mitigation goals in addition to goal 6.

RECOMMENDED REVISIONS (Not Required to Meet HHPD Requirements)

HHPD4: Recognizing that the mitigation strategy includes 3 dam failure hazard mitigation actions that broadly aim to reduce the vulnerabilities of eligible HHPDs in Beaver County (6.1.1, 6.1.2, and 6.1.3) but does not include a "Structure and Infrastructure" HHPD mitigation action, add the following mitigation actions to the mitigation strategy.

- Rehabilitating and/or removing high hazard potential dams (ideally state which HHPDs are being targeted).
- Adopting and enforcing land use ordinances in inundation zones.
- Acquiring and/or elevating structures, and/or acquiring easements in inundation zones.
- Flood protection, such as berms, floodwalls, or floodproofing, in inundation zones.

To help inform the development and refinement of mitigation actions, eligible activities from the FEMA FY21 HHPD grant funding opportunity are included below.

Eligible FY21 Rehabilitation of HHPD Grant Program Activities

 Repair, removal, or any other structural or nonstructural measures to rehabilitate an eligible high hazard potential dam.

- Planning Activities such as:
 - Alternatives analysis to identify a preferred plan for dam rehabilitation and the estimated cost for design and construction
 - o Investigations and risk assessments that further define the dam risk using a risk prioritization methodology defined in section H.14 of the FY21 HHPD NOFO.
- Design Activities such as:
 - Work to develop conceptual, preliminary, or final design plans and specifications for dam rehabilitation projects that have been planned using an alternative evaluation process that complies with National Environmental Policy Act (NEPA) requirements.

Source: Fiscal Year (FY) 2021 Rehabilitation of High Hazard Potential Dams (HHPD) Notice of Funding Opportunity (NOFO)

ELEMENT F. ADDITIONAL STATE REQUIREMENTS (OPTIONAL FOR STATE REVIEWERS ONLY; NOT TO BE COMPLETED BY FEMA)							
F1.							
F2.							
ELEMENT F: REQUIRED REVISIONS							
HHPD1:							

SECTION 2: PLAN ASSESSMENT

Plan Strengths

FEMA:

- The HMP includes a sound executive summary that highlights key HMP elements such as the hazards profiled, updated mitigation goals, notable mitigation action feedback and updates, and plan maintenance processes.
- (Best Practice): In section 7.1 you state "The 2021 HMP update establishes a review of the plan within thirty days of a disaster event in addition to continuing with an annual plan evaluation." This is an example of going above and beyond the regulatory requirement in order to create a living document which can be used during postdisaster recovery. Good job! You may want to highlight this by adding it into the Executive Summary where you discuss how the plan will be updated.
- The HMP includes a climate change profile within the risk assessment that cites academic sources and describes climate change's impact on extreme temperatures, wildfires, drought, flooding, tropical storms, hurricane, and invasive species hazards.
- Section 4.2.2 includes a clear narrative summary of natural hazards identified for evaluation by the Local Planning Team (LPT).
- A representative of the Beaver County Commissioners (Dam Owner of the South Branch Brady Run HHPD) was a member of the hazard mitigation planning team.
- The HMP includes a robust analysis of Invasive Species hazard risk. Notably, the risk assessment highlights that there are 29 possible areas in Beaver County that species can invade..." Beaver River at Rock Point (regional ranked), North Fork Little Beaver Creek State Line (regional ranked), and Ohio River in Beaver County (globally ranked). Possible major (either regional or globally ranked) forest areas in Beaver include: Ambridge Reservoir Valleys (regional ranked), Monaca Bluffs (regional ranked), Raccoon Creek State Park (regional ranked), and Raccoon Creek Valley and Wildflower Reserve (regional ranked)."
- The HMP includes a detailed profile of Pandemic Diseases extent, past occurrences, and vulnerability highlighting risk information associated with number of disease threats (including seasonal Flu, pandemic flu, COVID-19, Zika, MERs, and more).
- The HMP encourages Plan Integration via a "Plan Integration" section (5.2.5.) and "Plan Interrelationships" subsection of section 5.2.5. Notably, page 250 highlights how objectives from the Beaver County Comprehensive plan were integrated into the HMP as 4 specific mitigation actions.
- Table 6 HMP Process Timeline includes sound descriptions of what was accomplished at each meeting.
- The invasive species hazard profile is very detailed.

PEMA:

- 1. Excellent Executive Summary!
- 2. Great Pandemic/Invasive Species profile probably the most in-depth one I have seen in PA. Did you discuss what the effects of a longer, warmer season would do to insect populations (as vectors for disease) and invasive species proliferation?

Opportunities for Improvement

FEMA:

For the next plan update and/or at the next annual plan review...

- Expand the Beaver County Hazard Mitigation Planning Team to include whole community
 partners not included in the 2021 update that have a role in advancing hazard mitigation,
 such as school districts, private-non profits, utilities, community/faith based organization,
 water authorities, private businesses (large employers), and state dam safety agency staff
 (PA Department of Environmental Protection).
- For the next plan update, or throughout Beaver County's annual HMP review and implementation process, consider including additional HHPD dam owners identified in the plan such as FirstEnergy Generation, LLC and PA Department of Natural Resources as members of the Planning Team to obtain and incorporate HHPD risk data (such as inundation maps from Emergency Action Plans) into the plan.
- For the next plan update, consider identifying and describing the risk of dams in neighboring jurisdictions that may impact Beaver County.
- Integrate FEMA's concept of community lifelines and lifeline impacts into the analysis of hazard risk for at least each natural hazard profiled in the risk assessment. Additional information concerning community lifelines can be found here: <u>Community Lifelines |</u> <u>FEMA.gov</u>.
- Include municipality-specific and municipality-led mitigation actions that are directly tied to the results of submitted HIRA and capability assessment forms.
- Discuss with non-participating communities what their options are for amending into the plan.
- Add more pictures of past events to paint a clearer picture of the extent of damage experienced across the county.
- It appears that only 3 people gave comments on the HMP update according to pg. 421 of Appendix C. Consider using alternate methods for increasing public participation such as using social media and existing community events (in-person and/or virtual) to solicit Hazard Mitigation Plan input from stakeholders.
- Consider including community lifelines to promote alignment with the BRIC program and facilitate discussion on the interconnectedness of vulnerabilities and hazards. Additional information concerning FEMA Community Lifelines can be found in the resources section below.

PEMA:

- Make sure you use the most recent Plan Review Tool for your next submission. For instance the local planning requirements are being updated and the HHPD elements have changed each year with the Notice of Funding Opportunity.
- Plan to review the 2020 census data when available, and its impact on vulnerable populations, increased/decreased risk from identified hazards and any other cascading impacts to your plan. You can amend the plan at any time to make changes to your 2021 profile and add or subtract mitigation strategies and actions to support.
- Great use of maps and tables but photos of local landmarks and damage from profiled risks would really help tell your story. I recommend collecting old and new photos for your next plan update (which can also be used for other media related content).
- Your local planning team had great diversity and included many of sectors (schools, small and large business) we have been targeting for inclusion. The only suggestion I have would be to extend invitations to utilities and the conservation district for your annual plan reviews with the idea that you can integrate them into your mitigation discussions before your next plan update.
- It appears there were only 2 targeted opportunities for public comment during your planning process. With a short turn around time and COVID precautions, this is understandable. For your next plan update we would like to see a minimum of THREE touchpoints with your community at large. Typically they occur early in the planning process ("what keeps you up at night?"), after the risk assessment ("does this look right to you?") and when the draft is done ("anything we forgot?").

Resources:

Consider utilizing the following resources to bolster future hazard mitigation plan updates or amendments and advance community mitigation goals.

- FEMA: <u>National Risk Index (NRI) for Natural Hazards</u>
- FEMA: Resilience Analysis and Planning Tool (RAPT)
- FEMA: Mitigation Action Portfolio
- FEMA: Community Lifelines | FEMA.gov.
- FEMA: Region 3 HM Planning Resources
 - o FEMA: Region 3 Conducting Annual Hazard Mitigation Plan Reviews Resource
 - FEMA: Region 3 High Hazard Potential Dams State and Local Mitigation Planning Tips Resource
 - <u>Note:</u> The latest version will be shared before or following the plan review discussion/technical assistance call.
 - FEMA: Region 3 Checking In On The NFIP Resource
 - Note: This resource includes updated NFIP survey sheets.
- FEMA: <u>Guides to Expanding Mitigation</u>
- Resilient Nation Partnership Network, NOAA, & FEMA: <u>Building Alliances for Equitable</u>
 Resilience Resource (April 2021)
- FEMA: Protect Your Home from Flooding, Low Cost Project You Can Do Yourself Resource

Note: This resource will be shared before or following the plan review
discussion/technical assistance call.
 FEMA: "How Community Lifelines and Infrastructure Planning are Essential to Mitigation
Plans" Blog Post (October 2019)
 FEMA: <u>Building Community Resilience with Nature-Based Solutions</u>: A <u>Guide for Local</u>
Officials (fema.gov)

A. Plan Strengths and Opportunities for Improvement

SECTION 3:

MULTI-JURISDICTION SUMMARY SHEET (OPTIONAL)

INSTRUCTIONS: For multi-jurisdictional plans, a Multi-jurisdiction Summary Spreadsheet may be completed by listing each participating jurisdiction, which required Elements for each jurisdiction were 'Met' or 'Not Met,' and when the adoption resolutions were received. This Summary Sheet does not imply that a mini-plan be developed for each jurisdiction; it should be used as an optional worksheet to ensure that each jurisdiction participating in the Plan has been documented and has met the requirements for those Elements (A through E).

	MULTI-JURISDICTION SUMMARY SHEET											
#	Jurisdiction Name	Jurisdiction Type (city/borough /township/ village, etc.)	Plan POC	Mailing Addres s	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	Requiremen C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
1	Beaver County	County	Kelly Staschak	351 14 th Street, Ambridge, PA 15003	kstasc hak@ beave rcoun typa.g ov	724-775- 1700	Y	Υ	Υ	Υ		
2	Aliquippa City	City	Samuel Gill	600 11th Street, Ambridge, PA 15003	samue I.gill @aliq uippa pa.go v	724-375- 5188	Υ	Υ	N	Υ		
3	Ambridge Borough	Borough	Robert Gottsch alk	600 11th Street, Ambridge ,PA 15003	rgotc h71@ ambri dgebo ro.org	724-266- 4070	Υ	Υ	N	Υ		

	MULTI-JURISDICTION SUMMARY SHEET											
		Jurisdiction						I	Requirement	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	PlanPOC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
		-			_			Assessment				
		Borough	Matt	149 State	secret	724-869-						
	Baden		Loftus	Street,	ary@	3700						
4	Borough			Baden,	baden		Υ	Υ	N	Υ		
				PA15005	pa.co							
					m							

	MULTI-JURISDICTION SUMMARY SHEET											
		Jurisdiction							Requiremen	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
5	Beaver Borough	Borough	Dan Marton e	469 Third Street, Beaver, PA 15009	beave rboro ugh@ comc ast.ne t	724-773- 6700	Υ	Υ	N	Υ		
6	Beaver Falls City	City	Charles Jones	715 15th Street, Beaver Falls, PA 15010	cjones @bea verfal lspa.o rg	724-847- 2808 ext. 215	Υ	Υ	N	Υ		
7	Big Beaver Borough	Borough	Matthe w Straub	Dogwood Drive, Beaver Falls, PA 15010	straub .matth ew@ yahoo .com	724-622- 4577	Υ	Υ	Υ	Υ		
8	Bridgewater Borough	Borough	Charles Bates	199 Boundary Lane, Bridgewat er, Beaver, PA 15009	bridge water. boro @co mcast .net	724-774- 7615	Υ	Υ	Υ	Υ		
9	Brighton Township	Township	Bryan Dehart	1300 Brighton Road, Beaver, PA 15009	bryan d@bri ghton twp.o rg	724-624- 1565	Υ	Υ	Υ	Υ		
10	Center Township	Township	Rachael DelTon do	224 Center Grange Road, Aliquippa, PA 15001	rdelto ndo@ ctbos. com	724-774- 0271 ext. 110	Υ	Y	N	Y		

					MULTI	I-JURISDICTI	ON SUMM	ARY SHEET				
		Jurisdiction							Requiremen	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
11	Chippewa Township	Township	Kevin Whippl e	351 14th Street, Ambridge, PA 15003	kwhip ple@ beave rcount ypa.g ov	724-775- 1700	Υ	Y	Υ	Y		
12	Conway Borough	Borough	Debbie Rose	801 First Avenue, Conway, PA 15027	drose @pro s2pla n.com	412-585- 7557	Υ	Y	Y	Υ		
13	Darlington Borough	Borough	N/A	P.O. Box 8, Darlington , PA 16115	N/A	724-359- 7254	Y	Y	N	Y		
14	Darlington Township	Township	Bill Douthit t	3590 Darlington Road, Darlington , PA 16115	billdo uthitt 18@g mail.c om	724-544- 7091	Υ	Y	Υ	Y		
15	Daugherty Township	Township	Eric Bock	Mercer Road, New Brighton, PA 15066	daugh ertyyo wnshi p@co mcast .net	724-846- 5337	Υ	Y	Υ	Y		
16	East Rochester Borough	Borough	Mike Mamon e Jr	760 Spruce Avenue, East Rochester, PA 15074	chief mamo ne23 @yah oo.co m	724-775- 0363	Y	Y	Y	Y		

					MULT	-JURISDICTI	ON SUMM	ARY SHEET				
		Jurisdiction							Requiremen	ts Met (Y/N)		
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17	Eastvale Borough	Borough	N/A	510 Second Avenue, Easvale, Beaver Falls, PA 15010	eastva leboro ugh@ yahoo .com	724-846- 0020	N	N	N	N		
18	Economy Borough	Borough	Randy Kunkle	2856 Conway Wallrose Road, Baden, PA 15005	randy @eco nomy borou gh.or	724-869- 4779 ext. 1	Υ	Y	N	Y		
19	Fallston Borough	Borough	Thomas Albanes e	610 Third Avenue, New Brighton, PA 15066	alban ese@ newbr ighto npa.or g	724-846- 1870	Υ	Y	Υ	Y		
20	Frankfort Springs Borough	Borough	Dale Bonner	3371 State Route 18, Hookstow n, PA 15050	N/A	724-777- 6241	Υ	Y	N	Y		
21	Franklin Township	Township	Shanno n Schloss er	897 State Route 228, Fombell, PA 16123	twpse cretar y@zo omint ernet. net	724-758- 9702	Υ	Y	Υ	Y		

	MULTI-JURISDICTION SUMMARY SHEET											
		Jurisdiction							Requiremen	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
22	Freedom Borough	Borough	Nick Gilarno	901 3rd Avenue, Freedom, PA 15042	freedo mbor ough @co mcast .net	724-728- 5744 Ext. 1	Υ	Υ	Υ	Y		
23	Georgetown Borough	Borough	Trevor Torrenc e	P.O. Box 15, Georgetow n, PA 15043	trevor .torre nce@ yahoo .com	724-573- 9808	Υ	Υ	N	Y		
24	Glasgow Borough	Borough	Gary Craig	174 Route 68, Midland, PA 15059	gtccra ig@c omcas t.net	330-303- 3940	Υ	Υ	N	Υ		
25	Greene Township	Township	Kimber ly Moore	PO Box 181, 262 Pittsburgh Grade Road, Hookstow n, PA 15050	kamo ore22 @gre enetw p.com castbi z.net	724-573- 1111	Υ	Υ	N	Y		
26	Hanover Township	Township	Kathlee n Gillie	2731 State Route 18, Hookstow n, PA 15050	kgilli e@ha novert wp.us	724-899- 2642	Υ	Υ	Y	Y		
27	Harmony Township	Township	Bob Villella	2501 Woodland Road, Ambridge, PA 15003	harmo nytwp @gm ail.co m	724-266- 7330	Y	Υ	N	Y		

					MULTI	-JURISDICTI	ON SUMM	ARY SHEET				
		Jurisdiction							Requiremen	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
28	Homewood Borough	Borough	Alan Desanz o	Second Avenue, Homewoo d, Beaver Falls, PA 15010	home wood sec@ gmail. com	724-495- 9382	N	Υ	Υ	Υ		
29	Hookstown Borough	Borough	Trevor Torrenc e	262 Main Street, P.O. Box 176, Hookstow n, PA 15050	trevor .torre nce@ yahoo .com	724-312- 3975	Υ	Y	N	Y		
30	Hopewell Township	Township	John Bates	1700 Clark Blvd, Aliquippa, PA 15001	zonin goffic er@h opew elltwp .com	724-378- 1460	Υ	Y	Υ	Υ		
31	Independenc e Township	Township	Debra Shaffer	104 School Road, Aliquippa, PA 15001	twpof fice@ indep enden cetwp .comc astbiz .net	724-378- 3739	Υ	Y	N	Y		
32	Industry Borough	Borough	Chuck Ward	351 14th Street, Ambridge, PA 15003	cward @bea verco untyp a.gov	724-462- 6630	Y	Y	Y	Y		

					MULTI	I-JURISDICTI	ON SUMM	ARY SHEET				
		Jurisdiction							Requiremen	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
33	Koppel Borough	Borough	John Stubbs	115 Jenny Lane, Ellwood City, PA 16117	stubb sj@zo omint ernet. net	724-683- 6820	Υ	Y	N	Y		
34	Marion Township	Township	Marilyn Zona	485 Hartzell School Rd, Fombell, PA 16123	mario ntwp @zoo minte rnet.n et	724- 452- 1986	Υ	Y	N	Υ		
35	Midland Borough	Borough	Gregg Earley	936 Midland Avenue, Midland, PA 15059	mgr@ midla ndbor o.org	724-643- 4170 ext. 115	Υ	Y	Y	Y		
36	Monaca Borough	Borough	Dave Kramer	928 Pennsylva nia Avenus, Monaca, PA 15061	mana ger@ mona capa. net	724-775- 9603	Υ	Y	Y	Y		
37	New Brighton Borough	Borough	Thomas Albanes e	610 Third Avenue, New Brighton, PA 15066	alban ese@ newbr ighto npa.or g	724-846- 1870	Υ	Y	Y	Υ		
38	New Galilee Borough	Borough	Matthe w Straub	P.O. Box 465, New Galilee, PA 16141	tabwn ewgal @gm ail.co m	724-336- 3204	Y	Y	N	Y		

	MULTI-JURISDICTION SUMMARY SHEET												
		Jurisdiction							Requiremen	ts Met (Y/N)			
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments	
39	New Sewickley Township	Township	Lawrie Borgma n	233 Miller Road, Rochester, PA 15074	lborg man @ne wsew ickley .com	724-774- 7822	Υ	Y	Y	Y			
40	North Sewickley Township	Township	Lisa Crespo	893 Mercer Road, Beaver Falls, PA 15010	nst@z oomi nterne t.net	724-843- 5826	N	N	N	N			
41	Ohioville Borough	Borough	Brenna Boyde	6268 Tuscarawa s Road, Industry, PA 15052	brenn a@oh iovill eboro. org	724-643- 1920	Y	Y	Y	Y			
42	Patterson Heights Borough	Borough	Jack Doyle	600 7th Avenue, PH, Beaver Falls, PA 15010	pheig hts60 0@g mail.c om	724-462- 0923	N	N	N	N			
43	Patterson Township	Township	Christin Milnes	1600 29th Avenue, Beaver Falls, PA 15010	c.miln es@p atters ontwp .com	724-843- 8339	Y	Y	Y	Y			

					MULT	I-JURISDICTI	ON SUMM	ARY SHEET				
		Jurisdiction							Requiremen	ts Met (Y/N)		
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments
44	Potter Township	Township	1600 29th Avenue , Beaver Falls, PA 15010	c.milnes@ pattersont wp.com	c.miln es@p atters ontwp .com	724-843- 8339	Υ	Y	N	Y		
45	Pulaski Township	Township	Thomas Albanes e	610 Third Avenue, New Brighton, PA 15066	alban ese@ newbr ighto npa.or	724-846- 1870	Y	Y	N	Y		
46	Raccoon Township	Township	N/A	1234 State Route 18, Aliquippa, PA 15001	racco ontwp sec@ gmail. com	724-495- 6587	N	N	N	N		
47	Rochester Borough	Borough	John Barrett	350 Adams Street, Rochester, PA 15074	rbman ager @co mcast .net	724-775- 1200	Y	Y	Y	Y		
48	Rochester Township	Township	John Barrett	350 Adams Street, Rochester, PA 15074	rochb oro1 @co mcast .net	724-775- 1200	Y	Y	Y	Y		

	MULTI-JURISDICTION SUMMARY SHEET												
		Jurisdiction							Requiremen	ts Met (Y/N)			
#	Jurisdiction Name	Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	A. Planning Process	B. Hazard Identification & Risk Assessment	C. Mitigation Strategy	D. Plan Review, Evaluation & Implementation	E. Plan Adoption	F. State Require- ments	
49	Shippingport Borough	Borough	Dave McGee	P.O. Box 76, Shippingp ort, PA 15077	shippi ngpor t@co mcast .net	724-643- 4333	Υ	Y	Y	Υ			
50	South Beaver Township	Township	John Onuska	805 Blackhaw k Road, Beaver Falls, PA 15010	johno nuska @gm ail.co m	724-544- 1304	Υ	Y	N	Y			
51	South Heights Borough	Borough	Roberta Jones	P.O. Box 302, 4069 Jordan Street, South Heights, PA 15081	south height sboro ugh@ comc ast.ne	724-378- 9939	Υ	Y	N	Y			
52	Vanport Township	Township	Sharon Miller	477 State Ave, Vanport, PA 15009	vanpo rttwp @co mcast .net	724-774- 6420	Υ	Y	Y	Y			
53	West Mayfield Borough	Borough	N/A	4609 W. 8th Avenue, Beaver Falls, PA 15010	N/A	724-847- 1867	N	N	N	N			

					MULT	-JURISDICTI	ON SUMM	ARY SHEET					
#	Jurisdiction Name	Jurisdiction Type (city/borough/ township/ village, etc.)	Plan POC	Mailing Address	Email	Phone	Process Identification Strategy Evaluation Adoption Require- & Risk Implementation ments Assessment						
54	White Township	Township	Diana Lois	2511 13th Avenue (Clayton Road), Beaver Falls, PA 15010	whitet wp@ comc ast.ne t	724-843- 2819	Υ	Υ	Y	Υ			