

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 1 of 1)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Conduct a study to identify which municipal critical facilities and infrastructure within the County require the installation of transfer switches/electrical hookups in order to utilize portable emergency backup generators to maintain operations during prolonged power outages.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	FWS S&S	E&A	Medium County SVI: 0.0226	---	---	3, 5	LM	Low/Medium	EMA Director	2-5 years	County	New
Secure Memorandums of Agreement with critical facilities and infrastructure (i.e., ARC designated shelters, etc.) within the County to install electrical hookups (pigtails) for use with portable emergency backup generators to maintain operations during prolonged power outages.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	FWS S&S	LP&R	Medium County SVI: 0.0226	---	---	2, 3, 5	LM	Low/Medium	County Board Chair County Board / EMA Director	2-5 years	County	New
Purchase and install electrical hookups (pigtails) at critical facilities and infrastructure (i.e., ARC designated shelters, etc.) within the County for use with portable emergency backup generators to maintain operations during prolonged power outages.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	FWS S&S	S&IP	Medium County SVI: 0.0226	---	Yes	2, 3, 5	HM	Medium/High	County Board Chair County Board / EMA Director	2-5 years	County	New

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the County’s size (just over 13,500 individuals in unincorporated areas), projected population growth, and budgetary constraints. The County works hard to maintain critical services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority													
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	DF	Dam Failure	L	Landslides								
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	DR	Drought	MMH	Man-Made Hazard								
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	EC	Extreme Cold	MS	Mine Subsidence								
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	EH	Excessive Heat	SS	Severe Storms								
		EQ	Earthquake	SWS	Severe Winter Storm								
		F	Flood	T	Tornado								
		Hazard(s) to be Mitigated:		Type of Mitigation Activity:									
				E&A		Education & Awareness		NSP		Natural Systems Protection			
				LP&R		Local Plans & Regulations		S&IP		Structure & Infrastructure		Projects	
				Community Lifelines to be Mitigated:									
		C		Communications		H&M		Health & Medical					
		E		Energy (Power & Fuel)		S&S		Safety & Security					
		FWS		Food, Water, Shelter		T		Transportation					
		HM		Hazardous Material									

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 2 of 3)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Purchase portable emergency backup generators for use at critical facilities and infrastructure (i.e., ARC designated shelters, etc.) within the County to maintain operations during prolonged power outages.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	FWS S&S	S&IP	Medium County SVI: 0.0226	---	Yes	2, 3, 5	HM	Medium/High	County Board Chair County Board / EMA Director	1-5 years	County / FEMA HMGP	New
Develop a database of access and functional needs populations within the County in order to identify the best method(s) to alert these individuals to hazard events.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C	E&A	Small County SVI: 0.0226	---	---	1, 2	LM	Low/High	EMA Director / 911 Coordinator	2-5 years	County	New
In cooperation with the American Red Cross, establish new warming/cooling centers and emergency shelters in areas not currently served by a designated center/shelter.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	FWS	E&A	Medium County SVI: 0.0226	---	---	2	LM	Low/High	EMA Director / American Red Cross	2-5 years	County	New

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[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the County’s size (just over 13,500 individuals in unincorporated areas), projected population growth, and budgetary constraints. The County works hard to maintain critical services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	DF	Dam Failure	DR	Drought	EC	Extreme Cold	EH	Excessive Heat	EQ	Earthquake	F	Flood
HM	DF	Dam Failure	DR	Drought	EC	Extreme Cold	EH	Excessive Heat	EQ	Earthquake	F	Flood
LM	MMH	Man-Made Hazard	MS	Mine Subsidence	SS	Severe Storms	SWS	Severe Winter Storm	T	Tornado		
HL	MMH	Man-Made Hazard	MS	Mine Subsidence	SS	Severe Storms	SWS	Severe Winter Storm	T	Tornado		
LL	MMH	Man-Made Hazard	MS	Mine Subsidence	SS	Severe Storms	SWS	Severe Winter Storm	T	Tornado		

Hazard(s) to be Mitigated:
 DF Dam Failure
 DR Drought
 EC Extreme Cold
 EH Excessive Heat
 EQ Earthquake
 F Flood

Type of Mitigation Activity:
 E&A Education & Awareness
 LP&R Local Plans & Regulations
 NSP Natural Systems Protection
 S&IP Structure & Infrastructure Projects

Community Lifelines to be Mitigated:
 C Communications
 E Energy (Power & Fuel)
 FWS Food, Water, Shelter
 HM Hazardous Material
 H&M Health & Medical
 S&S Safety & Security
 T Transportation

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 3 of 3)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Evaluate the cost/benefits of implementing an automated mass notification system (i.e., reverse 911 or similar system) to notify residents/responders of hazard event conditions and information and establish a Community Lifeline.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C	E&A	Large County SVI: 0.0226	--	---	2	LM	Low/High	County Board Chair County Board / 911 Coordinator / Sheriff	2-5 years	County	New
Retrofit the County Public Safety Building/Courthouse to include a community safe room (equipped with emergency backup generator & HVAC system) for use by staff, visitors, and area residents to establish a Community Lifeline essential to human health and safety.	SS, T	FWS	S&IP	Small County SVI: 0.0226	---	---	2	HM	Medium/High	EMA Director / Sheriff	3-5 years	County / FEMA BRIC/ HMGP	New
Improve coordination between the County, townships, and municipalities in an effort to help implement hazard mitigation projects and cleanup activities aimed at reducing or eliminating the risk associated with natural and man-made hazard events.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	S&S	E&A	Large County SVI: 0.0226	Yes	Yes	2, 3, 5	LM	Low/Medium	County Board Chair County Board / EMA Director	1-5 years	County	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

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Acronyms

Priority													
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	DF	Dam Failure	L	Landslides								
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	DR	Drought	MMH	Man-Made Hazard								
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	EC	Extreme Cold	MS	Mine Subsidence								
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	EH	Excessive Heat	SS	Severe Storms								
		EQ	Earthquake	SWS	Severe Winter Storm								
		F	Flood	T	Tornado								
<p>Hazard(s) to be Mitigated:</p>													
<p>Type of Mitigation Activity:</p>													
E&A	Education & Awareness	NSP	Natural Systems Protection	LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects						
C	Communications	H&M	Health & Medical	E	Energy (Power & Fuel)	S&S	Safety & Security						
FWS	Food, Water, Shelter	T	Transportation	HM	Hazardous Material								

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 4 of 5)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Purchase and install an automatic emergency backup generator at the County Courthouse/Public Safety Building to provide uninterrupted power to the Emergency Operations Center/Joint Information Center (County Board Room) and maintain continuity of government/operations during power outages.	DF, EC, EH, EQ, MMH, F, SS, SWS, T	C, S&S	S&IP	Small County SVI: 0.0226	---	Yes	2, 3, 5	HM	Medium/High	EMA Director / Sheriff	1-2 years	County / FEMA BRIC	Existing (2019)
Purchase portable, trailer-mounted LED emergency message boards to alert the public of hazardous conditions associated with natural and man-made hazard events.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C	E&A	Medium County SVI: 0.0226	---	---	2	LM	Low/Medium	County Engineer Highway Dept/ Sheriff	5 years	County	Existing (2019)
Purchase and install storm warning sirens in select areas of the County without alert coverage to establish communications community lifelines essential to human health and safety.	SS, T	C	S&IP E&A	Small County SVI: 0.0226	---	---	2	HM	Medium/High	EMA Director	1-5 years	County	Existing (2019)

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Acronyms

Priority													
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	DF	Dam Failure	L	Landslides	LP&R	Local Plans & Regulations	NSP	Natural Systems Protection	NSP	Structure & Infrastructure Projects		
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	DR	Drought	MMH	Man-Made Hazard	LP&R	Local Plans & Regulations	S&IP	S&IP				
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	EC	Excessive Cold	MS	Mine Subsidence								
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	EH	Excessive Heat	SS	Severe Storms								
		EQ	Earthquake	SWS	Severe Winter Storm								
		F	Flood	T	Tornado								

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 5 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Develop an early warning notification system to alert residents along the Mackinaw River in the event of a dam failure at Lake Evergreen Dam.	DF	C	E&A	Small County SVI: 0.0226	---	---	2	HL	Medium/High	EMA Director	1-5 years	County	Existing (2019)
Partner with classified dam owners to develop Emergency Action Plans (EAPs) that identify the extent (water depths, speed of onset, warning times, etc.) and location (inundation areas) of potential dam failures to address data deficiencies.	DF	S&S	E&A	Small County SVI: 0.0226	---	---	2, 3, 5	LL	Low/Medium	EMA Director	5 years	County / Classified Dam Owners	Existing (2019)
Evaluate critical facilities and shelters to determine their resistance to natural hazards and recommend ways to strengthen or harden these facilities.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C, FWS, H&M, S&S	E&A	Small County SVI: 0.0226	---	---	3, 5	LM	Low/Medium	County Board Chair County Board / EMA Director	3-5 years	County	Existing (2019)

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Acronyms

Priority	DM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	DF	Dam Failure	L	Landslides	E&A	Education & Awareness	NSP	Natural Systems Protection
HM	DR	Mitigation action with the potential to reduce impacts from the most frequent hazards	DR	Drought	MMH	Man-Made Hazard	LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects
LM	EC	Mitigation action with the potential to reduce impacts from the most frequent hazards	EC	Extreme Cold	MS	Mine Subsidence	C	Community Lifelines to be Mitigated:	H&M	Health & Medical
HL	EH	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	EH	Excessive Heat	SS	Severe Storms	E	Energy (Power & Fuel)	S&S	Safety & Security
LL	EQ	Mitigation action with the potential to reduce impacts from the less frequent hazards	EQ	Earthquake	SWS	Severe Winter Storm	FWS	Food, Water, Shelter	T	Transportation
	F	Mitigation action with the potential to reduce impacts from the less frequent hazards	F	Flood	T	Tornado	HM	Hazardous Material		

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 6 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Purchase and distribute NOAA weather radios to vulnerable residents, businesses, schools, critical facilities (i.e., nursing homes, ARC designated shelters, etc.), fire protection districts, etc.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C	E&A	Medium County SVI: 0.0226	---	---	2	HM	Low/High	EMA Director	1-5 years	County	Existing (2019)
Examine the feasibility of designating schools and other public buildings as warming centers and emergency shelters.	DF, EC, EQ, F, L, MMH, MS, SS, SWS, T	FWS	E&A	Medium County SVI: 0.0226	---	---	2	LM	Low/Medium	EMA Director	1-2 years	County	Existing (2019)
Distribute public information materials that inform residents of the risks to life and property associated with natural and man-made hazards and the proactive actions that they can take to reduce or eliminate their risks.	DF, DR, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	---	E&A	Large County SVI: 0.0226	---	---	1, 2	LM	Low/Medium	EMA Director	2-5 year	County	Existing (2019)

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* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority															
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	DF	Dam Failure	L	Landslides	NSP	Natural Systems Protection	E&A	Education & Awareness	NSP	Structure & Infrastructure	LP&R	Local Plans & Regulations	S&IP	Projects
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	DR	Drought	MMH	Man-Made Hazard	MS	Mine Subsidence	EC	Extreme Cold	SS	Severe Storms	SS	Severe Winter Storm	SS	Tornado
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	EQ	Excessive Heat	SWS	Severe Winter Storm	T	Tornado	F	Flood						
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	F	Flood												

Type of Mitigation Activity:
 E&A Education & Awareness
 LP&R Local Plans & Regulations
 NSP Natural Systems Protection
 S&IP Structure & Infrastructure
 Projects
 Community Lifelines to be Mitigated:
 C Communications
 H&M Health & Medical
 E Energy (Power & Fuel)
 S&S Safety & Security
 FWS Food, Water, Shelter
 T Transportation
 HM Hazardous Material

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 7 of 9)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Establish digital coordinates for all critical facilities/infrastructure for use in GIS mapping applications. This information can be used to determine which critical facilities/infrastructure have the potential to be threatened by natural and man-made hazard events.	DF, DR, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C, E, FWS, H&M, S&S, T	E&A	Large County SVI: 0.0226	---	---	3, 5, 8	LM	Low/Medium	County Board / EMA Director	3-5 years	County	Existing (2019)
Target FEMA's Repetitive Loss Properties for educational outreach.*	F	S&S	E&A	Small County SVI: 0.0226	---	---	2, 6	LM	Low/Medium	Zoning Administrator / Building/Zoning Department	1-5 years	County	Existing (2019)
Target FEMA's Repetitive Loss Properties for potential mitigation projects.*	F	S&S	E&A	Small County SVI: 0.0226	---	---	2, 6	LM	Low/Medium	Zoning Administrator / Building/Zoning Department	1-5 years	County	Existing (2019)
Distribute educational materials informing residents about the benefits of the National Flood Insurance Program and how it is administered locally.*	F	S&S	E&A	Small County SVI: 0.0226	---	---	1, 2	LM	Low/Medium	Zoning Administrator / Building/Zoning Department	1-5 years	County	Existing (2019)

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* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority	DM	Dam Failure	DF	Drought	DR	Extreme Cold	EC	Excessive Heat	EH	Earthquake	EQ	Flood	F
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	L	Landslides	MMH	Man-Made Hazard	MS	Mine Subsidence	SS	Severe Storms	SWS	Severe Winter Storm	T	Tornado
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	LP&R	Local Plans & Regulations	NSP	Natural Systems Protection	S&I	Structure & Infrastructure Projects						
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards												
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards												

Type of Mitigation Activity:

E&A	Education & Awareness	NSP	Natural Systems Protection
LP&R	Local Plans & Regulations	S&I	Structure & Infrastructure Projects
C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

Community Lifelines to be Mitigated:

C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

**Figure MIT-9
Woodford County Hazard Mitigation Actions
(Sheet 8 of 9)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Review new Flood Insurance Rate Maps (FIRMs) when they become available. Update the flood ordinance to exceed federal standards and reflect the revised FIRMs and present both for adoption. Enforce flood ordinance to ensure new development does not increase flood vulnerability or create unintended exposures to flooding.*	F	S&S	LP&R	Small County SVI: 0.0226	Yes	Yes	1, 2, 6, 7	HM	Low/Medium	Zoning Administrator / County Board	1-5 years	County	Existing (2019)
Continue to make the most recent Flood Insurance Rate Maps available at the Building/Zoning Department's office to assist the public in considering where to construct new buildings.*	F	S&S	E&A	Small County SVI: 0.0226	Yes	---	1, 2, 6, 7	LM	Low/Medium	Zoning Administrator / Building/Zoning Department	1-5 years	County	Existing (2019)
Continue to make County officials aware of the most recent Flood Insurance Rate Maps and issues related to construction in a floodplain.*	F	S&S	E&A	Small County SVI: 0.0226	Yes	---	1, 2, 6, 7	LM	Low/Medium	Zoning Administrator / Building/Zoning Department	1-5 years	County	Existing (2019)
Evaluate the feasibility of participating in the National Flood Insurance Program's voluntary Community Rating System.	F	S&S	E&A LP&R	Small County SVI: 0.0226	---	---	4	LM	Low/Medium	Zoning Administrator / Building/Zoning Department	1-3 years	County	Existing (2019)

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* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority	DF	Dam Failure	L	Landslides	NSP	Natural Systems Protection
HM	DR	Drought	MMH	Man-Made Hazard	LP&R	Local Plans & Regulations S&IP Projects
LM	EC	Extreme Cold	MS	Mine Subsidence	S&P	Structure & Infrastructure
HL	EH	Excessive Heat	SS	Severe Storms	Community Lifelines to be Mitigated:	
LL	EQ	Earthquake	SWS	Severe Winter Storm	C	Communications
	F	Flood	T	Tornado	E	Energy (Power & Fuel)
					FWS	Food, Water, Shelter
					HM	Hazardous Material
					H&M	Health & Medical
					S&S	Safety & Security
					T	Transportation

Figure MIT-10
El Paso Hazard Mitigation Actions
 (Sheet 1 of 1)

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Clean debris/obstructions out of roadway culverts and drainage structures within the City to maximize carrying capacity, reduce/prevent drainage problems, and mitigate risk to Transportation Community Lifelines.	F, SS	T	S&IP	Medium SVI: 0.4455 EDRC: Yes	---	Yes	3, 5	HM	Low/Medium	Director of Public Service / Operations Supervisor	3 years	City	New
Establish/designate new warming/cooling centers and emergency shelters within the City.	EC, EH, EQ, F, MMH, SS, SWS, T	FWS	LP&R	Medium SVI: 0.4455 EDRC: Yes	---	---	2	LM	Low/High	Director of Public Service	5 years	City	New
Purchase and install automatic emergency backup generators at designated warming/cooling centers and emergency shelters to maintain operations during prolonged power outages.	EC, EH, EQ, F, MMH, SS, SWS, T	FWS	S&IP	Medium SVI: 0.4455 EDRC: Yes	---	---	2	HM	Medium/High	Director of Public Service	5 years	City / USDA – RD Critical Facilities Programs / FEMA BRIC	New

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 2,900 individuals). The City works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	DR	Drought	MMH	Man-Made Hazard	E&A	Education & Awareness	NSP	Natural Systems Protection
HM	EC	Extreme Cold	SS	Severe Storms	LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects
LM	EH	Excessive Heat	SWS	Severe Winter Storm				
HL	EQ	Earthquake	T	Tornado				
LL	F	Flood						

Hazard(s) to be Mitigated:

Community Lifelines to be Mitigated:

C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

Figure MIT-10
El Paso Hazard Mitigation Actions
(Sheet 2 of 3)

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Conduct a study to identify which municipal critical facilities and infrastructure (i.e., lift stations, well pumps, etc.) require the installation of transfer switches/electrical hookups in order to utilize portable emergency backup generators to maintain continuity of government/operations during prolonged power outages.	EC, EH, EQ, F, MMH, MS, SS, SWS, T	FWS S&S	E&A	Large SVI: 0.4455 EDRC: Yes	---	---	3, 5	LM	Low/Medium	Director of Public Service / Operations Supervisor	2 years	City	New
Harden existing Emergency Operations Center/ Incident Command Center to increase building resilience, maintain continuity of government/operations, and ensure the continued functionality of Community Lifelines.	EQ, F, MMH, SS, SWS, T	C S&S	S&IP	Large SVI: 0.4455 EDRC: Yes	---	Yes	2, 3, 5	HM	High/High	Director of Public Service / Police Chief / Operations Supervisor	5 years	City / FEMA HMG/ BRIC	New
Purchase portable, trailer-mounted LED emergency message board to alert the public of hazardous conditions associated with natural and man-made hazard events.	EC, EH, EQ, F, MMH, MS, SS, SWS, T	C	E&A	Large SVI: 0.4455 EDRC: Yes	---	---	2	LM	Medium/Medium	Director of Public Service / Operations Supervisor / ESDA Coordinator	3-5 years	City	New

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 2,900 individuals). The City works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought	E&A Education & Awareness
LM	EC Extreme Cold	LP&R Local Plans & Regulations
HL	EH Excessive Heat	NSP Natural Systems Protection
LL	EQ Earthquake	S&IP Structure & Infrastructure Projects
	F Flood	
	MMH Man-Made Hazard	
	SS Severe Storms	
	SWS Severe Winter Storm	
	T Tornado	
		Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

Figure MIT-10
El Paso Hazard Mitigation Actions
 (Sheet 3 of 7)

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Purchase and install new storm warning sirens as needed to maximize the system's effectiveness and establish/ensure continued operation of a Community Lifeline essential to human health and safety.	SS, T	C	S&IP	Large SVI: 0.4455 EDRC: Yes	--	---	2	HM	Medium/High	Director of Public Service / ESDA Coordinator	1-5 years	City / USDA – RD Critical Facilities Programs	New
Upgrade/retrofit the storm sewer system in areas prone to flooding to eliminate stormwater infiltration, increase storage and draining capacity, better manage stormwater runoff, and ensure system resilience and functionality in an effort to address recurring heavy rain events that overwhelm the system.	F, SS	FWS	S&IP	Medium SVI: 0.4455 EDRC: Yes	Yes	Yes	3, 5	HM	Medium/High	Director of Public Service / Operations Supervisor	5 years	City / IEPA SRF – WPCLP / USDA – RD Water & Waste Disposal Program	New

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 2,900 individuals). The City works hard to maintain critical services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	DR	Drought	MMH	Man-Made Hazard	E&A	Education & Awareness	NSP	Natural Systems Protection
HM	EC	Extreme Cold	SS	Severe Storms	LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects
LM	EH	Excessive Heat	SWS	Severe Winter Storm				
HL	EQ	Earthquake	T	Tornado				
LL	F	Flood						

Hazard(s) to be Mitigated:

Community Lifelines to be Mitigated:

C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

**Figure MIT-11
Eureka Hazard Mitigation Actions
(Sheet 2 of 2)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Upgrade stormwater mains in five specific flood zones within the City to increase storage and capacity, better manage runoff, and ensure system resilience and functionality in an effort to address recurring heavy rain events that overwhelm the system.	F, SS	FWS	S&IP	Medium SVI: 0.6148 EDRC: No	---	Yes	3, 5	HM	Medium/High	Mayor / City Council / Public Works Director	20 years	City / FEMA BRIC	New
Identify and install floodproof measures at wastewater treatment plant to protect bar screen, blowers, digester, and aeration to ensure system resilience and continued operation of a Community Lifeline. These components have all been previously damaged by flood events.	F, SS	FWS	E&A S&IP	Large SVI: 0.6148 EDRC: No	---	Yes	2, 3, 5	HM	Medium/High	Public Works Director / Sewer Department	5 years	City / FEMA FMA/BRIC / IEPA SRF - WPCLP	New
Obtain approval from Illinois Department of Natural Resources to construct flood wall/berm around the wastewater treatment plant.	F, SS	FWS	LP&R	Large SVI: 0.6148 EDRC: No	---	---	2, 3, 5	LM	Low/Medium	Public Works Director	2-3 years	City	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of "Yes" identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 5,500 individuals). The City works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	Dam Failure	E&A Education & Awareness
LM	Drought	LP&R Local Plans & Regulations
HL	Extreme Cold	NSP Natural Systems Protection
LL	Excessive Heat	S&IP Structure & Infrastructure Projects
	Earthquake	Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

**Figure MIT-11
Eureka Hazard Mitigation Actions
(Sheet 3 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Construct flood wall/berm around the wastewater treatment plant to address recurring flood problems associated with Walnut Creek.	F, SS	FWS	S&IP NSP	Large SVI: 0.6148 EDRC: No	---	Yes	2, 3, 5	HM	High/High	Mayor City Council / Public Works Director	2-3 years	City / FEMA FMA/BRIC	Existing (2019)
Install/upsizes new water mains and fire hydrants at various locations within the City to improve system resilience, ensure a constant supply of water for residents, and aid in fire suppression during natural and man-made hazard events.	EC, EH, F, MMH, SS, SWS, T	FWS	S&IP	Large SVI: 0.6148 EDRC: No	Yes	Yes	2, 3, 5	HM	High/High	Mayor City Council / Public Works Director	1-5 years	City / IEPA SRF – PWSLP	Existing (2019)
Repair/reline sewer line sections to eliminate stormwater infiltration, prevent sewage backups, and improve capacity, function, and reliability of the City's sewer system.	F, SS	FWS	S&IP	Medium SVI: 0.6148 EDRC: No	Yes	Yes	3, 5	HM	Medium/High	Mayor City Council / Public Works Director	1-5 years	City / IEPA SRF – WPCLP	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of "Yes" identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 5,500 individuals). The City works hard to maintain critical services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	Dam Failure	E&A Education & Awareness
LM	Drought	LP&R Local Plans & Regulations
HL	Extreme Cold	NSP Natural Systems Protection
LL	Excessive Heat	S&IP Structure & Infrastructure Projects
	Earthquake	Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

**Figure MIT-11
Eureka Hazard Mitigation Actions
(Sheet 4 of 5)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Phased construction of water main loops to improve system resilience by creating redundancy to minimize service disruptions resulting from pipe and water main breaks, ensure continued functionality of a community lifeline, and aid in fire suppression during natural and man-made hazard events.	DR, EC, EH, F, MMH, SS, SWS, T	FWS	S&IP	Medium SVI: 0.6148 EDRC: No	Yes	Yes	2, 3, 5	LM	High/High	Mayor City Council / Public Works Director	1-5 years	City / IEPA SRF – PWSLP	Existing (2019)
Upgrade/upsize storm sewer system in areas prone to flooding to increase storage and capacity, better manage runoff, and ensure system resilience and functionality in an effort to address recurring heavy rain events that overwhelm the system.	F, SS	FWS T	S&IP	Small SVI: 0.6148 EDRC: No	Yes	Yes	2, 3, 5	HM	High/High	Mayor City Council / Public Works Director	3-5 years	City / IEPA SRF – WPCLP	Existing (2019)
Upsize stormwater drainage system (ditches, culverts, etc.) in flood-prone areas to alleviate recurring flood problems, better manage stormwater runoff, and increase system resilience.	F, SS	T	S&IP	Small SVI: 0.6148 EDRC: No	---	Yes	2, 3, 5	HM	Medium/High	Mayor City Council / Public Works Director	1-5 years	City / FEMA BRIC/FMA	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 5,500 individuals). The City works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards

Hazard(s) to be Mitigated:	
DF	Dam Failure
DR	Drought
EC	Extreme Cold
EH	Excessive Heat
EQ	Earthquake
F	Flood
MMH	Man-Made Hazard
SS	Severe Storms
SWS	Severe Winter Storm
T	Tornado

Type of Mitigation Activity:	
E&A	Education & Awareness
LP&R	Local Plans & Regulations
NSP	Natural Systems Protection
S&IP	Structure & Infrastructure Projects
Community Lifelines to be Mitigated:	
C	Communications
E	Energy (Power & Fuel)
FWS	Food, Water, Shelter
HM	Hazardous Material
H&M	Health & Medical
S&S	Safety & Security
T	Transportation

**Figure MIT-11
Eureka Hazard Mitigation Actions
(Sheet 5 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Collaborate with the County's Emergency Management Agency to develop a more robust Emergency Services Department within the City.	DF, DR, EC, EH, EQ, F, MMH, SS, SWS, T	S&S	LP&R E&A	Large SVI: 0.6148 EDRC: No	---	---	2, 3, 5	LM	Low/Medium	Mayor / City Council	2-4 years	City	Existing (2019)
Purchase portable trash pump, 8" or larger, to remove excess water from critical facilities/infrastructure during heavy rain/flood events to ensure continued functionality of Community Lifelines.	F, SS	S&S T	S&IP	Small SVI: 0.6148 EDRC: No	Yes	Yes	3, 5	HM	Low/High	Mayor City Council / Public Works Director	3 years	City	Existing (2019)
Evaluate the feasibility of participating in the National Flood Insurance Program's voluntary Community Rating System.	F	S&S	E&A LP&R	Small SVI: 0.6148 EDRC: No	---	---	4	LM	Low/Medium	Chairman / Planning Commission	3-5 years	City	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of "Yes" identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 5,500 individuals). The City works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	DM	Dam Failure	F	Flood
HM	DR	Drought	MMH	Man-Made Hazard
LM	EC	Extreme Cold	SS	Severe Storms
HL	EH	Excessive Heat	SWS	Severe Winter Storm
LL	EQ	Earthquake	T	Tornado

Hazard(s) to be Mitigated:

DF	Dam Failure	F	Flood
DR	Drought	MMH	Man-Made Hazard
EC	Extreme Cold	SS	Severe Storms
EH	Excessive Heat	SWS	Severe Winter Storm
EQ	Earthquake	T	Tornado

Type of Mitigation Activity:

E&A	Education & Awareness	NSP	Natural Systems Protection
LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects
C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

Community Lifelines to be Mitigated:

C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

**Figure MIT-11
Eureka Hazard Mitigation Actions
(Sheet 6 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Review new Flood Insurance Rate Maps (FIRMs) when they become available. Update the flood ordinance to exceed federal standards and reflect the revised FIRMs and present both for adoption. Enforce flood ordinance to ensure new development does not increase flood vulnerability or create unintended exposures to flooding.*	F	S&S	LP&R	Small SVI: 0.6148 EDRC: No	Yes	Yes	1, 2, 6, 7	HM	Low/Medium	Mayor / City Council	1-5 years	City	Existing (2019)
Continue to make the most recent Flood Insurance Rate Maps available at the City Clerk's Office to assist the public in considering where to construct new buildings.*	F	S&S	E&A	Small SVI: 0.6148 EDRC: No	Yes	---	1, 2, 6, 7	LM	Low/Medium	Chairman / Planning Commission	1-5 years	City	Existing (2019)
Continue to make City officials aware of the most recent Flood Insurance Rate Maps and issues related to construction in a floodplain.*	F	S&S	E&A	Small SVI: 0.6148 EDRC: No	Yes	---	1, 2, 6, 7	LM	Low/Medium	Chairman / Planning Commission	1-5 years	City	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of "Yes" identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 5,500 individuals). The City works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority	
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards

Hazard(s) to be Mitigated:

DF	Dam Failure	F	Flood
DR	Drought	MMH	Man-Made Hazard
EC	Extreme Cold	SS	Severe Storms
EH	Excessive Heat	SWS	Severe Winter Storm
EQ	Earthquake	T	Tornado

Type of Mitigation Activity:

E&A	Education & Awareness	NSP	Natural Systems Protection
LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects
Community Lifelines to be Mitigated:			
C	Communications	H&M	Health & Medical
E	Energy (Power & Fuel)	S&S	Safety & Security
FWS	Food, Water, Shelter	T	Transportation
HM	Hazardous Material		

**Figure MIT-12
Germantown Hills Hazard Mitigation Actions
(Sheet 1 of 1)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Retrofit existing village-owned building and/or construct a new stand-alone structure to serve as a community safe room equipped with emergency backup generator and HVAC system that can also be used as a warming/cooling center and emergency shelter for Village residents to establish a Community Lifeline.	EC, EH, EQ, F, MMH, SS, SWS, T	FWS	S&IP	Medium SVI: 0.0557 EDRC: No	Yes	Yes	2	HM	High/High	President/Village Board	5 years	Village / FEMA BRIC/ HMGP / HUD CDBG	Existing (2019)
Harden Village Hall, Maintenance Building/Shop, and Wastewater Treatment Plant to high wind standards (including but not limited to installation of a roof anchoring system) to increase building resilience to high wind damage, maintain continuity of government/operations, protect staff, and mitigate risk to Community Lifelines.	SS, T	S&S FWS	S&IP	Small SVI: 0.0557 EDRC: No	---	Yes	5 years	HM	Medium/High	President/Village Board	5 years	Village / FEMA BRIC/ HMGP	Existing (2019)
Install shatter-proof glass at the Village Hall and Wastewater Treatment Plant to increase buildings resilience to natural hazard events, maintain continuity of government/operations, protect staff, and mitigate risk to Community Lifelines.	EQ, SS, T	S&S FWS	S&IP	Small SVI: 0.0557 EDRC: No	---	Yes	5 years	HM	Medium/Medium	President/Village Board	5 years	Village / FEMA BRIC/ HMGP	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 3,400 individuals). The Village works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought EC Extreme Cold EH Excessive Heat EQ Earthquake F Flood	E&A Education & Awareness LP&R Local Plans & Regulations NSP Natural Systems Protection S&IP Structure & Infrastructure Projects
LM	MMH Man-Made Hazard SS Severe Storms SWS Severe Winter Storm T Tornado	C Communications E Energy (Power & Fuel) FWS Food, Water, Shelter HM Hazardous Material
HL		H&M Health & Medical
LL		S&S Safety & Security T Transportation

**Figure MIT-12
Germantown Hills Hazard Mitigation Actions
(Sheet 2 of 3)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Repair/reline sewer line sections in the Whispering Oaks subdivision to eliminate stormwater infiltration, prevent sewage backups, improve capacity, function, and reliability of the Village's sewer system.	F, SS	FWS	S&IP	Medium SVI: 0.0557 EDRC: No	Yes	Yes	3, 5	HM	Medium/High	President/Village Board/Public Works Director	5 years	Village / IEPA SRF – WPCLP	Existing (2019)
Purchase and install emergency backup generators with automatic transfer switches at Coventry Farms I and Deer Ridge onsite lift stations to establish a resilient and reliable power supply in order to maintain continuity of operations and mitigate risk to a Community Lifeline.	EC, EH, EQ, F, MMH, SS, SWS, T	FWS	S&IP	Medium SVI: 0.0557 EDRC: No	Yes	Yes	2, 3, 5	HM	Medium/High	President/Village Board/Public Works Director	5 years	Village / FEMA HMGF	Existing (2019)
Purchase and install an emergency backup generator at Wastewater Treatment Plant 1 to establish a resilient and reliable power supply in order to maintain continuity of operations and mitigate risk to a Community Lifeline.	EC, EH, EQ, F, MMH, SS, SWS, T	FWS	S&IP	Large SVI: 0.0557 EDRC: No	Yes	Yes	2, 3, 5	HM	Medium/High	President/Village Board/Public Works Director	5 years	Village / FEMA HMGF	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 3,400 individuals). The Village works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought EC Extreme Cold EH Excessive Heat EQ Earthquake F Flood	E&A Education & Awareness LP&R Local Plans & Regulations NSP Natural Systems Protection S&IP Structure & Infrastructure Projects
LM	MMH Man-Made Hazard SS Severe Storms SWS Severe Winter Storm T Tornado	
HL		Community Lifelines to be Mitigated:
LL		C Communications E Energy (Power & Fuel) FWS Food, Water, Shelter HM Hazardous Material H&M Health & Medical S&S Safety & Security T Transportation

**Figure MIT-12
Germantown Hills Hazard Mitigation Actions
(Sheet 3 of 3)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Inventory, scan and store off site (cloud-based storage) vital village records (including sewer & water records) to protect and maintain service in the event a natural hazard event impacts Village Hall.	EQ, F, MMH, SS, SWS, T	S&S	LP&R E&A	Large SVI: 0.0557 EDRC: No	---	---	5, 8	LM	Medium/High	President/ Village Board/ Village Administrator	5 years	Village	Existing (2019)
Purchase and install an automatic emergency backup generator at Village Hall to establish a resilient and reliable power supply, maintain continuity of operations, and mitigate risk to a Community Lifeline.	EC, EH, EQ, F, MMH, SS, SWS, T	S&S	S&IP	Small SVI: 0.0557 EDRC: No	---	Yes	2, 3, 5	HM	Medium/High	President/ Village Board/ Public Works Director	3 years	Village / FEMA HMGP	Existing (2019)
Conduct hydrologic/hydraulic study to determine the cause(s) and identify the design solutions to alleviate recurring drainage/flooding problems within the City.	F, SS	T	E&A	Medium SVI: 0.0557 EDRC: No	---	---	3, 5	LM	Medium/Medium	President/ Village Board/ Public Works Director	5 years	Village / IDOT Local Roads	Existing (2019)

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[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 3,400 individuals). The Village works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought	E&A Education & Awareness
	EC Extreme Cold	LP&R Local Plans & Regulations
LM	EH Excessive Heat	NSP Natural Systems Protection
	EQ Earthquake	S&IP Structure & Infrastructure Projects
HL	F Flood	
LL		Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

**Figure MIT-12
Germantown Hills Hazard Mitigation Actions
(Sheet 4 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Construct the identified design solution(s) to alleviate recurring drainage/flooding problems within the City.	F, SS	S&S	S&IP	Medium SVI: 0.0557 EDRC: No	Yes	Yes	2, 3, 5	HM	High/Medium	President/Village Board/Public Works Director	5 years	Village / FEMA BRIC	Existing (2019)
Install curb and gutter at various locations within the Village to help direct the flow of stormwater runoff to drainage structures in an effort to alleviate drainage/flooding problems and ensure continued functionality of Community Lifelines.	F, SS	T	S&IP	Medium SVI: 0.0557 EDRC: No	---	Yes	2, 3, 5	HM	Medium/Medium	President/Village Board/Public Works Director	5 years	Village / IDOT Local Roads	Existing (2019)
Reshape/regrade select high impact drainage ditches to alleviate drainage/flooding problems, increase carrying capacity, better manage stormwater runoff, and increase community resilience.	F, SS	T	S&IP	Small SVI: 0.0557 EDRC: No	---	Yes	2, 3, 5	HM	Medium/Medium	President/Village Board/Public Works Director	5 years	Village / IDOT Local Roads	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 3,400 individuals). The Village works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought EC Extreme Cold EH Excessive Heat EQ Earthquake F Flood	E&A Education & Awareness LP&R Local Plans & Regulations NSP Natural Systems Protection S&IP Structure & Infrastructure Projects
LM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	MMH Man-Made Hazard SS Severe Storms SWS Severe Winter Storm T Tornado
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	Community Lifelines to be Mitigated: C Communications E Energy (Power & Fuel) FWS Food, Water, Shelter HM Hazardous Material
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	H&M Health & Medical S&S Safety & Security T Transportation

**Figure MIT-12
Germantown Hills Hazard Mitigation Actions
(Sheet 5 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Remove debris, vegetative overgrowth, and brush from streams and creeks within the Village to maximize flow/carrying capacity, better manage stormwater runoff, and reduce/prevent drainage problems.	F, SS	S&S	S&IP	Small SVI: 0.0557 EDRC: No	---	Yes	3, 4, 5	LM	Low/Medium	Village Board/ Public Works Director	1-5 years	Village	Existing (2019)
Clean debris/obstructions out of culverts to maximize flow/carrying capacity, reduce/prevent drainage problems, and ensure system resilience and functionality.	F, SS	T	S&IP	Medium SVI: 0.0557 EDRC: No	---	Yes	3, 4, 5	LM	Low/Medium	President/ Village Board/ Public Works Director	1-5 years	Village	Existing (2019)
Distribute public information materials that inform residents of the risks to life and property associated with natural and man-made hazards and the proactive actions that they can take to reduce or eliminate their risks.	DR, EC, EH, EQ, F, MMH, SS, SWS, T	---	E&A	Large SVI: 0.4455 EDRC: Yes	---	---	1, 2	LM	Low/Medium	President/ Village Board/ Public Works Director	1-5 year	Village	New

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[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 3,400 individuals). The Village works hard to maintain critical of services to its residents. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought EC Extreme Cold EH Excessive Heat EQ Earthquake F Flood	E&A Education & Awareness LP&R Local Plans & Regulations NSP Natural Systems Protection S&IP Structure & Infrastructure Projects
LM	MMH Man-Made Hazard SS Severe Storms SWS Severe Winter Storm T Tornado	
HL		Community Lifelines to be Mitigated:
LL		C Communications E Energy (Power & Fuel) FWS Food, Water, Shelter HM Hazardous Material H&M Health & Medical S&S Safety & Security T Transportation

Figure MIT-13
Minonk Hazard Mitigation Actions
(Sheet 1 of 1)

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Design and construct community safe rooms, (built to high wind standards and equipped with an emergency backup generators and HVAC systems) at strategic locations within the City that can also be used as warming/cooling centers for residents to establish Community Lifelines.	EC, EH, SS, T	FWS	S&IP	Medium SVI: 0.1890 EDRC: No	Yes	---	2	HM	High/High	Mayor / City Council	5 years	City / FEMA BRIC / HMGF	New
Reline main storm sewer line to eliminate stormwater infiltration, increase storage and draining capacity, better manage stormwater runoff, and ensure system resilience and functionality in an effort to address recurring heavy rain events that overwhelm the system.	F, SS	FWS T	S&IP	Medium SVI: 0.1890 EDRC: No	Yes	Yes	3, 5	HM	Medium/High	Mayor / City Council	1 year	City / IEPA SRF – WPCLP	New
Install additional drainage pipes in the Elm Court area to increase carrying capacity, alleviate recurring flooding problems, and ensure system resilience and functionality.	F, SS	T	S&IP	Small SVI: 0.1890 EDRC: No	---	Yes	3, 5	HM	Medium/High	Mayor / City Council	1 year	City / IEPA SRF – WPCLP	New

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a city of this size (approx. 2,000 individuals). The City works hard to provide critical of services to its residents, but it’s a struggle. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought	E&A Education & Awareness
LM	EC Extreme Cold	LP&R Local Plans & Regulations
HL	EH Excessive Heat	NSP Natural Systems Protection
LL	EQ Earthquake	S&IP Structure & Infrastructure Projects
	F Flood	
	MMH Man-Made Hazard	
	MS Mine Subsidence	
	SS Severe Storms	
	SWS Severe Winter Storm	
	T Tornado	
		Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

**Figure MIT-13
Minonk Hazard Mitigation Actions
(Sheet 2 of 2)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Upgrade/upsize the storm sewer line on the east end of the City to increase storage and draining capacity, better manage stormwater runoff, and ensure system resilience and functionality in an effort to address recurring heavy rain events that overwhelm the system.	F, SS	FWS T	S&IP	Medium SVI: 0.1890 EDRC: No	Yes	Yes	3, 5	HM	Medium/High	Mayor / City Council	5 years	City / IEPA SRF – WPCLP	New
Separate combined sewer system to better manage stormwater runoff; reduce flow rates to wastewater treatment plant, increase system resilience, prevent damage to the collection systems and plant during flood events and mitigate risk to a Community Lifeline.	F, SS	FWS	S&IP	Large SVI: 0.1890 EDRC: No	Yes	Yes	3, 5	HM	High/High	Mayor / City Council	5-10 years	City / IEPA SRF – WPCLP	New
Distribute public information materials that inform residents of the risks to life and property associated with natural and man-made hazards and the proactive actions that they can take to reduce or eliminate their risks.	DR, EC, EH, EQ, F, MMH, MS, SS, SWS, T	---	E&A	Large SVI: 0.1890 EDRC: No	---	---	1, 2	LM	Low/Medium	Mayor / City Council	1-5 years	City	New

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Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	DR Drought EC Extreme Cold EH Excessive Heat EQ Earthquake F Flood	E&A Education & Awareness LP&R Local Plans & Regulations NSP Natural Systems Protection S&IP Structure & Infrastructure Projects
LM	MMH Man-Made Hazard MS Mine Subsidence SS Severe Storms SWS Severe Winter Storm T Tornado	Community Lifelines to be Mitigated: C Communications E Energy (Power & Fuel) FWS Food, Water, Shelter HM Hazardous Material
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	H&M Health & Medical S&S Safety & Security T Transportation
LL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	
	Mitigation action with the potential to reduce impacts from the less frequent hazards	

Figure MIT-14
Roanoke Hazard Mitigation Actions
 (Sheet 2 of 2)

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Relocate Public Works out of the West Branch Panther Creek base floodplain to ensure system resilience, maintain continuity of operations, and mitigate risk to a Community Lifeline.*	F	FWS	S&IP NSP	Medium SVI: 0.1465 EDRC: No	Yes	Yes	3, 5	HM	High/High	President / Village Board	5 years	Village / FEMA BRIC/FMA	Existing (2019)
Remove debris, vegetative overgrowth, and brush from streams and creeks within the Village to maximize flow/carrying capacity, better manage stormwater runoff, and reduce/prevent drainage problems.	F, SS	S&S	S&IP	Small SVI: 0.1465 EDRC: No	---	Yes	2, 4, 5	LM	Low/Medium	President / Village Board	1-5 years	Village	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of “Yes” identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 1,800 individuals). The Village works hard to provide critical of services to its residents, but it’s a struggle. Additional funding is necessary if implementation is to be achieved within the time frames specified.

* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority	DR	Drought	MMH	Man-Made Hazard	Type of Mitigation Activity:	
HM	EC	Extreme Cold	MS	Mine Subsidence	E&A	Education & Awareness
LM	EH	Excessive Heat	SS	Severe Storms	LP&R	Local Plans & Regulations
HL	EQ	Earthquake	SWS	Severe Winter Storm	NSP	Natural Systems Protection
LL	F	Flood	T	Tornado	S&IP	Structure & Infrastructure Projects
					Community Lifelines to be Mitigated:	
					C	Communications
					E	Energy (Power & Fuel)
					FWS	Food, Water, Shelter
					HM	Hazardous Material
					H&M	Health & Medical
					S&S	Safety & Security
					T	Transportation

**Figure MIT-14
Roanoke Hazard Mitigation Actions
(Sheet 3 of 3)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Acquire flood-prone properties and remove existing structures.*	F, SS	S&S	S&IP NSP	Small SVI: 0.1465 EDRC: No	---	Yes	2, 4, 6	HM	Medium/High	President / Village Board	3-5 years	Village / FEMA FMA/BRIC	Existing (2019)
Target FEMA's Repetitive Loss Properties for educational outreach.*	F	S&S	E&A	Small SVI: 0.1465 EDRC: No	---	---	2, 4, 6	LM	Low/Medium	President / Village Board	1-5 years	Village	Existing (2019)
Target FEMA's Repetitive Loss Properties for potential mitigation projects.*	F	S&S	E&A	Small SVI: 0.1465 EDRC: No	---	---	2, 4, 6	LM	Low/Medium	President / Village Board	1-5 years	Village	Existing (2019)

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[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 1,800 individuals). The Village works hard to provide critical of services to its residents, but it's a struggle. Additional funding is necessary if implementation is to be achieved within the time frames specified.

* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority		
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	Hazard(s) to be Mitigated: DR Drought EC Extreme Cold EH Excessive Heat EQ Earthquake F Flood
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	MMH Man-Made Hazard MS Mine Subsidence SS Severe Storms SWS Severe Winter Storm T Tornado
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	
		Type of Mitigation Activity: E&A Education & Awareness LP&R Local Plans & Regulations NSP Natural Systems Protection S&IP Structure & Infrastructure Projects Community Lifelines to be Mitigated: C Communications E Energy (Power & Fuel) FWS Food, Water, Shelter HM Hazardous Material H&M Health & Medical S&S Safety & Security T Transportation

**Figure MIT-14
Roanoke Hazard Mitigation Actions
(Sheet 4 of 5)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Distribute educational materials informing residents about the benefits of the National Flood Insurance Program and how it is administered locally.	F	S&S	E&A	Small SVI: 0.1465 EDRC: No	---	---	1, 2, 4	LM	Low/Medium	President / Village Board	1-5 years	Village	Existing (2019)
Develop "hazard information centers" at the public library and on the Village's website to distribute public information materials to residents that detail the risks to life and property associated with natural and man-made hazards that impact the Village and the proactive actions they can take to reduce their risk.	DR, EC, EH, EQ, F, MMH, MS, SS, SWS, T	---	E&A	Large SVI: 0.1465 EDRC: No	---	---	2, 4	LM	Low/Medium	President / Village Board	1-5 years	Village	Existing (2019)

[§] Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of "Yes" identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

[†] Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 1,800 individuals). The Village works hard to provide critical of services to its residents, but it's a struggle. Additional funding is necessary if implementation is to be achieved within the time frames specified.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	E&A Education & Awareness
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	LP&R Local Plans & Regulations
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	NSP Natural Systems Protection Structure & Infrastructure Projects
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	S&IP S&IP Projects
		Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

Figure MIT-14
Roanoke Hazard Mitigation Actions
(Sheet 5 of 7)

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Evaluate critical facilities and shelters to determine their resistance to natural hazards and recommend ways to strengthen or harden these facilities.	DF, EC, EH, EQ, F, L, MMH, MS, SS, SWS, T	C FWS H&M S&S	E&A	Small SVI: 0.1465 EDRC: No	---	---	3, 5	LM	Low/Medium	President / Village Board	5 years	Village	Existing (2019)
Evaluate the feasibility of participating in the National Flood Insurance Program's voluntary Community Rating System.*	F	S&S	E&A LP&R	Small SVI: 0.1465 EDRC: No	---	---	4	LM	Low/Medium	Zoning Officer / Planning & Zoning	1-3 years	Village	Existing (2019)

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* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority	Hazard(s) to be Mitigated:	Type of Mitigation Activity:
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	E&A Education & Awareness
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	LP&R Local Plans & Regulations
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	NSP Natural Systems Protection
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	S&IP Structure & Infrastructure Projects
		Community Lifelines to be Mitigated:
		C Communications
		E Energy (Power & Fuel)
		FWS Food, Water, Shelter
		HM Hazardous Material
		H&M Health & Medical
		S&S Safety & Security
		T Transportation

**Figure MIT-14
Roanoke Hazard Mitigation Actions
(Sheet 6 of 7)**

Activity/Project Description	Hazard(s) to be Mitigated	Community Lifeline(s) to be Mitigated	Type of Mitigation Activity	Population Affected (Size, SVI, and/or EDRC) [§]	Reduce Effects of Hazard(s) on Buildings & Infrastructure		Goal(s) Met	Priority	Cost/Benefit Analysis	Organization / Department Responsible for Implementation & Administration	Time Frame to Complete Activity	Funding Source(s) [†]	Status
					New	Existing							
Review new Flood Insurance Rate Maps (FIRMs) when they become available. Update the flood ordinance to exceed federal standards and reflect the revised FIRMs and present both for adoption. Enforce flood ordinance to ensure new development does not increase flood vulnerability or create unintended exposures to flooding.*	F	S&S	LP&R	Small SVI: 0.1465 EDRC: No	Yes	Yes	1, 2, 6, 7	HM	Low/High	President Village Board / Zoning Officer	1-5 years	Village	Existing (2019)
Continue to make the most recent Flood Insurance Rate Maps available at the Village Clerk's Office to assist the public in considering where to construct new buildings.*	F	S&S	E&A	Small SVI: 0.1465 EDRC: No	Yes	---	1, 2, 6, 7	LM	Low/Medium	Zoning Officer / Planning & Zoning	1-5 years	Village	Existing (2019)
Continue to make Village officials aware of the most recent Flood Insurance Rate Maps and issues related to construction in a floodplain.*	F	S&S	E&A	Small SVI: 0.1465 EDRC: No	Yes	---	1, 2, 3, 4, 5, 6, 7	LM	Low/Medium	Zoning Officer / Zoning Board	1-5 years	Village	Existing (2019)

§ Size refers to the general size of the population affected (i.e., small, medium, or large, while a Social Vulnerability Index (SVI) ranking of 0.6 or greater and/or an Economically Disadvantaged Rural Community (EDRC) designation of "Yes" identifies potentially underserved communities and/or socially vulnerable populations using the SVI and EDRC as described in Section 1.2.

† Identifies the most likely funding source to be pursued for the activity/project described. However, if funding is unavailable through the most likely or other suggested sources, then implementation of medium to large-scale activities/projects is unlikely due to the budgetary constraints experienced by a village of this size (approx. 1,800 individuals). The Village works hard to provide critical services to its residents, but it's a struggle. Additional funding is necessary if implementation is to be achieved within the time frames specified.

* Mitigation action to ensure continued compliance with NFIP.

Acronyms

Priority													
HM	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the most frequent hazards	DR	Drought	MMH	Man-Made Hazard	E&A	Education & Awareness	NSP	Natural Systems Protection	LP&R	Local Plans & Regulations	S&IP	Structure & Infrastructure Projects
LM	Mitigation action with the potential to reduce impacts from the most frequent hazards	EC	Extreme Cold	MS	Mine Subsidence	SS	Severe Storms	Community Lifelines to be Mitigated:					
HL	Mitigation action with the potential to virtually eliminate or significantly reduce impacts from the less frequent hazards	EH	Excessive Heat	SWS	Severe Winter Storm	T	Tornado	C	Communications	H&M	Health & Medical		
LL	Mitigation action with the potential to reduce impacts from the less frequent hazards	EQ	Earthquake	F	Flood	E	Energy (Power & Fuel)	S&S	Safety & Security	T	Transportation		
		F	Flood			HM	Hazardous Material						

