

# Action Plan

## Grantee: West Virginia

### Grant: B-18-DP-54-0001

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<b>LOCCS Authorized Amount:</b>	\$ 106,494,000.00
<b>Grant Award Amount:</b>	\$ 106,494,000.00
<b>Status:</b>	Reviewed and Approved

#### Estimated PI/RL Funds:

<b>Total Budget:</b>	\$ 106,494,000.00
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### Funding Sources

#### No Funding Sources Found

### Narratives

#### Mitigation Needs Assessment:

The Mitigation Needs Assessment utilizes the findings of West Virginia's 2018 Statewide Hazard Mitigation Plan (SHMP), regional and local mitigation plans, data and research acquired from additional resources including but not limited to, National Centers for Environmental Information, US Department of Homeland Security's Homeland Infrastructure Foundation-Level Data. Throughout this assessment, the State cites relevant data sources (84 FR 45847).

In preparation of this Mitigation Needs Assessment, the State also consulted with other jurisdictions, the private sector, and other government agencies, including State and local emergency management agencies that have primary responsibility for the administration of FEMA mitigation funds (84 FR 45840). This The Mitigation Needs Assessment utilizes the findings of West Virginia's 2018 Statewide Hazard Mitigation Plan (SHMP), regional and local mitigation plans, data and research acquired from additional resources including but not limited to, National Centers for Environmental Information, US Department of Homeland Security's Homeland Infrastructure Foundation-Level Data. Throughout this assessment, the State cites relevant data sources (84 FR 45847). This collaboration with multiple stakeholders and analysis of various data sources was key to ensuring a comprehensive analysis of the hazards addressed here and subsequent mitigation measures to be implemented to reduce or eliminate the substantial risk of loss of life, injury, damage and loss of property, along with suffering and hardship.

The State consulted with the West Virginia Division of Emergency Management (EMD), regional planning commissions, the private sector, and other governmental agencies to provide a multihazard risk-based mitigation needs assessment for the eligible counties. The data suggests that based on the total number of high-ranking hazards in each of West Virginia's county local hazard mitigation plans, the top risks impacting the state in order are flooding, winter weather, and severe storms. Based on the findings of West Virginia Mitigation Needs Assessment (MNA) there is a high demand and need for the implementation of infrastructure mitigation projects that will improve resiliency to hazard impacts, such as flooding. Addressing the mitigation needs of West Virginia requires the continued fostering of a culture of preparedness and the provision of tools for



proper planning. A limitation that was noted in both the State’s 2018 Hazard Mitigation Plan, and each of the regional planning council’s mitigation plans was that availability, standardization, or access to data related to historical or future risk for several hazards did not exist or was difficult to find. While the State has made great strides through HMGP funding to produce web mapping tools, local level analysis across many hazards varies in availability and consistency across the state. Planning studies in coordination with groups such as state agencies, federal agencies, universities, and regional planning councils, to better identify hazard risks, impacts, and subsequent mitigation measures, can serve as a valuable use of mitigation funds.

**Proposed Use of Funds:**

Proposed Use of Funds:

Based on the findings of West Virginia Mitigation Needs Assessment (MNA) there is a high demand and need for the implementation of infrastructure mitigation projects that will improve resiliency to hazard impacts, such as flooding. Considering this data-driven analysis along with stakeholder and community input, WVDO is proposing the following CDBG-MIT programs that will work to achieve the goals of risk reduction and increased resilience:

1. General Infrastructure – This program will provide funding opportunities for local governments and state agencies to develop large-scale mitigation activities that allow communities to better withstand future disasters. Projects may include the rehabilitation of critical infrastructure; rehabilitation or construction of stormwater management systems; improving or installing retention basins; relocating water lines; culvert improvements; and green infrastructure.
2. Public Facility Hardening – This program will assist local governments and state agencies with hardening public This includes all critical public facilities such as potable water facilities, wastewater treatment facilities, public shelters, fire and police stations, medical centers, etc. CDBG-MIT funds will allow local communities to fund previously identified public facility mitigation needs and/or identify public facility mitigation needs that will harden the facility and reduce or eliminate damages and loss of life and property.
3. Regional and Local Planning – This program will make competition-based allocations to local governments and other eligible applicants to cover a wide variety of planning activities related to local and regional mitigation needs.
4. Hazard Mitigation Plans - West Virginia will use funding to update and develop a Hazard Mitigation Plan (HMP) or enhanced HMP. FEMA approval of the enhanced HMP would make the state eligible for assistance up to 20 percent for estimated aggregate amounts of a disaster. This State plan would serve as the framework for local hazard mitigation plans within the state. CDBG-MIT funds will also be used for these local planning efforts managed by the five Regional Planning and Development Councils (RPDCs) found within the HUD and State MID areas.
5. State Planning - The State may select and execute planning studies in coordination with groups such as state agencies, federal agencies, universities, regional planning groups, to conduct studies with CDBG-MIT funds. Studies and planning efforts may be identified through local community input, including public meetings, requests for information, or surveys. Communities may recommend studies to be completed, but these planning funds will be administered by the State. State planning funds may also be used for capacity building at the state and local level.

**Project Summary**

Project #	Project Title	Grantee Activity #	Activity Title	Grantee Program
9999	Restricted Balance	<i>No activities in this project</i>		
Administration	Administration	HZMTPNLMID-0019A	Hazard Mitigation Plan RPDC 5 Planning - Admin State Administration	
Infrastructure1	General Infrastructure	General Infrastructure 1	General Infrastructure NMID LMA	



		General Infrastructure 2	General Infrastructure MID
		MGIPLMI-0001	LMA Town of Rainelle Storm Sewer
		MGIPLMI-0002	MID LMI White Sulphur Springs Stormwater Improvements Project
		MGIPUN-0003	Craigsville PSD Water Plant Relocation
		MGIPUN-0004	Water Treatment Plant Relocation Project
		MGIPUN-0005	City of Ronceverte Stormwater Infrastructure Improvements Project
		MGIPUN-0006	Rupert Stormwater Improvements Project
		MGIPUN-0007	Summersville Storm Water
		NGIPLMI-0008	City of Spencer Miletree #1 Dam Modifications Project
		NGIPLMI-0009	Town of Marlinton Storm Sewer
		NGIPLMI-0010	City of Spencer Wastewater System Improvements Project
		NGIPLMI-0011	Town of Addison Storm Sewer Replacement/ Extension Project
		NGIPLMI-0012	City of Oak Hill-Minden Flood Mitigation Project
		NGIPLMI-0013	Camp Caeser
		NGIPLMI-0014	Flood Mitigation Project
Planning1	State Planning	State Planning1	State Planning
Planning2	Regional and Local Planning	Regional and Local Planning 1	Regional and Local Planning MID
		Regional and Local Planning2	Regional and Local Planning NMID
		RPMTPLMID-0015	Crossing the Bridge to Safety Project
		RPMTPLMID-0016	City of Lewisburg Stromwater Management Assessment Project
		RPMTPLMID-0017	Evaluation of Short Term Flood Control Barrier Systems
		RPMTPLNMID-0018	Culvert and Bridge Mapping Project
Planning3	Regional Hazard Mitigation Plans	Hazard Mitigation Plans 1	Hazard Mitigation Plans RPDC 1 Planning
		Hazard Mitigation Plans 3	Hazard Mitigation Plans RPDC 3 Planning
		Hazard Mitigation Plans 4	Hazard Mitigation Plans RPDC 4 Planning
		Hazard Mitigation Plans2	Hazard Mitigation Plans RPDC 2 Planning
		HZMTPLNMID-0019	Hazard Mitigation Plan RPDC 5

# Activities

**Project # / Administration / Administration**

**Grantee Activity Number: HZMTPLNMID-0019A**

**Activity Title: Hazard Mitigation Plan RPDC 5 Planning - Admin**

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Administration

**Projected Start Date:**

11/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

- # of revised zoning codes incorporating resiliency adopted
- % of survey respondents with an increased understanding of flood risks and
- # of Stormwater Management Zoning Ordinances adopted
- # of Hazard Mitigation Plans prepared
- # of floodplain design standards updated
- # of resilience planning recommendations implemented
- # of public education meetings
- # of acres with improved multiple hazard risk mapping
- # of planning studies and initiatives completed

**Total**

1



- # of persons at resilience meetings
- # of local laws passed
- # of entities at resilience meetings
- # of ecological actions identified
- # of plans adopted
- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
Mid-Ohio Valley Regional Council	Other	\$ 5,000.00

**Location Description:**

**Activity Description:**

Admin for RPDC 5 Hazard Mitigation Plan.

**Environmental Assessment:** COMPLETED

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



**Grantee Activity Number: State Administration**

**Activity Title: State Administration**

**Activity Type:**

Administration

**Project Number:**

Administration

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Proposed budgets for organizations carrying out Activity:**

**Responsible Organization**

West Virginia Development Office

**Organization Type**

State

**Proposed Budget**

\$ 5,319,700.00

**Location Description:**

Clay, Greenbrier, Kanawha, Nicholas, Fayette, Jackson, Lincoln, Monroe, Pocahontas, Roane, Summers, and Webster

**Activity Description:**

In accordance with the Federal Register, WVDO's aggregate total for administrative expenditures will not exceed 5% of its total grant (plus any program income). Accordingly, the State is allocating a budget of 5% (\$5,324,700) to cover the costs of administering the CDBG-MIT grant for the 12 year grant period as well as closeout and monitoring period.



**Environmental Assessment:** COMPLETED

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:**

**Document** State Planning and Admin ER.pdf

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**Project # / Infrastructure1 / General Infrastructure**



# Grantee Activity Number: General Infrastructure 1

## Activity Title: General Infrastructure NMID LMA

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

01/13/2031

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 13,875,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 13,875,000.00

**Benefit Report Type:**

Area Benefit (Census)

**Ancillary Activities**

None

**Projected Accomplishments**

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

# of acres no longer vulnerable to flood events

# of green infrastructure projects constructed

# of acres green infrastructure created

% reduction of water surface elevation level

**Total**



- % reduction of sanitary sewer overflows**
- % reduction in loss of service**
- % reduction in energy costs**
- % increase in pumping capacity**
- % increase in number of acres converted to open space**
- % increase in groundwater infiltration**
- % increase in acres of cropland protected from flooding**
- % decrease water surface elevation level during a flood with a qualifying event**
- % decrease in road closures in target area during a flood event**
- % decrease in disruption hours to residents and businesses from impacts of**
- % decrease in area inundated by flooding**
- % decrease in affluent discharged**
- % reduction in emergency maintenance costs**
- # of water control structures repaired/replaced**
- # of pump stations repaired/replaced**
- # of linear feet of stream restored**
- # of containment systems constructed**
- # of brownfield acres converted to wetland**
- # of acres with improved multiple hazard risk mapping**
- # of acres of native vegetation planted**
- # of residents protected from future flooding**
- # of properties protected from future flooding**
- # of acres green space preserved**
- # of acres green space created**
- # of vacant lots repurposed**
- # occupied structures in floodplain**
- # linear feet of streams restored**
- # acres of wetlands created**
- \$ estimated flood loss avoidance**
- # of linear feet of trails constructed**
- # of greenspace users**
- \$ Funds allocated for water-quality improvements**
- \$ Funds allocated for water management/flood mitigation improvements**
- % reduction of watershed nitrate loading**
- # of Elevated Structures**
- # of Linear Feet of Water Lines**
- # of Linear Feet of Sewer Lines**
- # of Linear miles of Public Improvement**
- # of Linear feet of Public Improvement**
- # of Non-business Organizations benefitting**
- # of public facilities**
- # of buildings (non-residential)**

3

**LMI%:**



## Proposed budgets for organizations carrying out Activity:

Responsible Organization	Organization Type	Proposed Budget
West Virginia Development Office	State	\$ 13,875,000.00

### Location Description:

Fayette, Jackson, Lincoln, Monroe, Pocahontas, Roane, Summers, and Webster

### Activity Description:

The GIP will account for 67.8% of the total CDBG-MIT grant funding. It is the broadest, most flexible program, and is anticipated to provide the greatest range of impact among the proposed programs. The GIP will fund large-scale and high-impact local, multi-jurisdictional, and regional investments. Eligible projects may include upgrading of water, sewer, solid waste, communications, energy, transportation, health and medical and other public infrastructure projects to reduce the hazard risks identified in the Mitigation Needs Assessment portion of this Action Plan. General Infrastructure dollars will allow local and regional units of government to address their most pressing hazard mitigation needs and will require subgrantee applicants to document how their proposed projects will meet or exceed hazard reduction needs of their most vulnerable citizens and identify which critical lifelines are protected by each proposed project. Other considerations such as multi-use facilities and natural infrastructure components will be encouraged through the subgrantee application process described herein. Additionally, per Federal Register Notice FR-6109-N-02J, CDBG-MIT funds can be used to meet a matching requirement, share or contribution for other federal grant programs if they are used to carry out an eligible mitigation activity.

The State has announced 6 infrastructure activities with a low mod national objective in non most impacted and distressed areas. The State is currently working to execute an agreement with the subrecipients for these activities. Once the agreements are executed, the activities will be split out of this activity in DRGR.

### Environmental Assessment:

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

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## Grantee Activity Number: General Infrastructure 2

### Activity Title: General Infrastructure MID LMA

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

02/13/2031

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 13,500,000.00

**Most Impacted and Distressed Budget:** \$ 13,500,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 13,500,000.00

**Benefit Report Type:**

Area Benefit (Census)

**Ancillary Activities**

None

**Projected Accomplishments**

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

# of acres no longer vulnerable to flood events

# of green infrastructure projects constructed

# of acres green infrastructure created

% reduction of water surface elevation level

**Total**

3



- % reduction of sanitary sewer overflows
- % reduction in loss of service
- % reduction in energy costs
- % increase in pumping capacity
- % increase in number of acres converted to open space
- % increase in groundwater infiltration
- % increase in acres of cropland protected from flooding
- % decrease water surface elevation level during a flood with a qualifying event
- % decrease in road closures in target area during a flood event
- % decrease in disruption hours to residents and businesses from impacts of
- % decrease in area inundated by flooding
- % decrease in affluent discharged
- % reduction in emergency maintenance costs
- # of water control structures repaired/replaced
- # of pump stations repaired/replaced
- # of linear feet of stream restored
- # of containment systems constructed
- # of brownfield acres converted to wetland
- # of acres with improved multiple hazard risk mapping
- # of acres of native vegetation planted
- # of residents protected from future flooding
- # of properties protected from future flooding
- # of acres green space preserved
- # of acres green space created
- # of vacant lots repurposed
- # occupied structures in floodplain
- # linear feet of streams restored
- # acres of wetlands created
- \$ estimated flood loss avoidance
- # of linear feet of trails constructed
- # of greenspace users
- \$ Funds allocated for water-quality improvements
- \$ Funds allocated for water management/flood mitigation improvements
- % reduction of watershed nitrate loading
- # of Elevated Structures
- # of Linear Feet of Water Lines
- # of Linear Feet of Sewer Lines
- # of Linear miles of Public Improvement
- # of Linear feet of Public Improvement
- # of Non-business Organizations benefitting
- # of public facilities 3
- # of buildings (non-residential)

**LMI%:**



**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 13,500,000.00

**Location Description:**

Fayette, Jackson, Lincoln, Monroe, Pocahontas, Roane, Summers, and Webster

**Activity Description:**

The GIP will account for 67.8% of the total CDBG-MIT grant funding. It is the broadest, most flexible program, and is anticipated to provide the greatest range of impact among the proposed programs. The GIP will fund large-scale and high-impact local, multi-jurisdictional, and regional investments. Eligible projects may include upgrading of water, sewer, solid waste, communications, energy, transportation, health and medical and other public infrastructure projects to reduce the hazard risks identified in the Mitigation Needs Assessment portion of this Action Plan. General Infrastructure dollars will allow local and regional units of government to address their most pressing hazard mitigation needs and will require subgrantee applicants to document how their proposed projects will meet or exceed hazard reduction needs of their most vulnerable citizens and identify which critical lifelines are protected by each proposed project. Other considerations such as multi-use facilities and natural infrastructure components will be encouraged through the subgrantee application process described herein. Additionally, per Federal Register Notice FR-6109-N-02J, CDBG-MIT funds can be used to meet a matching requirement, share or contribution for other federal grant programs if they are used to carry out an eligible mitigation activity.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

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## Grantee Activity Number: MGIPLMI-0001

### Activity Title: Town of Rainelle Storm Sewer MID LMI

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 9,955,000.00

**Most Impacted and Distressed Budget:** \$ 9,955,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 9,955,000.00

**Benefit Report Type:**

Area Benefit (Census)

**Ancillary Activities**

None

**Projected Accomplishments****Total**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

3

# of small water retention devices/systems installed

# of reduced hours streets are flooded

300

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

100

# of fewer outages of critical facilities and utilities

# of acres no longer vulnerable to flood events

20



# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	10
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	10
% decrease in road closures in target area during a flood event	75
% decrease in disruption hours to residents and businesses from impacts of	75
% decrease in area inundated by flooding	75
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	50
# of properties protected from future flooding	75
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	11
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	5
# of Linear feet of Public Improvement	23000
# of Non-business Organizations benefitting	25



# of public facilities

1

# of buildings (non-residential)

LMI%:

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
Town of Rainelle	Local Government	\$ 9,955,000.00

**Location Description:**

The Town of Rainelle Storm Water project lies within the town limits of Rainelle, West Virginia near the Greenbrier and Fayette County border, essentially covering all developed portions of the Town of Rainelle.

**Activity Description:**

The Town of Rainelle Storm Water project will include the Town limits of Rainelle, West Virginia near the Greenbrier and Fayette County boarder, essentially covering all developed portions of Rainelle. The Town of Rainelle is located at approximately 37°58'10"N and 80°45'58"W. The Town of Rainelle Storm Water project provides benefits to the community by mitigating storm water drainage hazards. The project will eliminate the pooling and overflow of storm water on the streets, roads, sidewalks, and other areas. The Town of Rainelle Storm Water project will not only update the existing system but will also extend storm water control to areas that are in need of a storm water system and currently do not have the infrastructure. The existing storm sewer system for the Town of Rainelle is undersized, aged, and in relatively poor condition. At its current state, the system is unable to adequately drain areas of Rainelle. The current system is in inadequate to collect and transport storm water in a safe, timely and effective manner. The proposed project will eliminate the pooling and overflow of storm water on the streets, roads, sidewalks, and other areas. The Town of Rainelle Storm Water project will not only update the existing system but will also extend storm water control to areas that are in need of a storm water system and currently do not have the infrastructure.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes**

<b>Subject to Section 3 Requirements:</b>	Yes
<b>Disaster Type:</b>	Flood
<b>Facility Type:</b>	Other
<b>Critical Facility or Infrastructure Sector:</b>	Yes
<b>Improve Critical Government Functions:</b>	No
<b>Covered Project:</b>	No
<b>Opportunity Zone Investment:</b>	No

**Activity Supporting Documents:** None





**Grantee Activity Number: MGIPLMI-0002**

**Activity Title: White Sulphur Springs Stormwater Improvements Project**

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 2,980,000.00

**Most Impacted and Distressed Budget:** \$ 2,980,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 2,980,000.00

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

**Total**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

1

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities



# of acres no longer vulnerable to flood events  
# of green infrastructure projects constructed  
# of acres green infrastructure created  
% reduction of water surface elevation level  
% reduction of sanitary sewer overflows  
% reduction in loss of service  
% reduction in energy costs  
% increase in pumping capacity  
% increase in number of acres converted to open space  
% increase in groundwater infiltration  
% increase in acres of cropland protected from flooding  
% decrease water surface elevation level during a flood with a qualifying event  
% decrease in road closures in target area during a flood event  
% decrease in disruption hours to residents and businesses from impacts of  
% decrease in area inundated by flooding  
% decrease in affluent discharged  
% reduction in emergency maintenance costs  
# of water control structures repaired/replaced  
# of pump stations repaired/replaced  
# of linear feet of stream restored  
# of containment systems constructed  
# of brownfield acres converted to wetland  
# of acres with improved multiple hazard risk mapping  
# of acres of native vegetation planted  
# of residents protected from future flooding  
# of properties protected from future flooding  
# of acres green space preserved  
# of acres green space created  
# of vacant lots repurposed  
# occupied structures in floodplain  
# linear feet of streams restored  
# acres of wetlands created  
\$ estimated flood loss avoidance  
# of linear feet of trails constructed  
# of greenspace users  
\$ Funds allocated for water-quality improvements  
\$ Funds allocated for water management/flood mitigation improvements  
% reduction of watershed nitrate loading  
# of Elevated Structures  
# of Linear Feet of Water Lines  
# of Linear Feet of Sewer Lines  
# of Linear miles of Public Improvement  
# of Linear feet of Public Improvement



# of Non-business Organizations benefitting

# of public facilities

# of buildings (non-residential)

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
White Sulphur Springs, City of	Local Government	\$ 2,980,000.00

**Location Description:**

The service area for the proposed City of White Sulphur Springs Storm Water project in the center of the city in White Sulphur Springs located in Greenbrier County, West Virginia (a MID County) near Howards Creek and Dry Creek confluence.

**Activity Description:**

The project will upgrade the current stormwater system, clean ditch lines, and install new infrastructure. The City of White Sulphur Springs is proposing to construct and install 7195 LF. of 18"-36" HOPE Pipe, 200 LF Culvert Pipe (Galvanized Steel), 40 Catch Basins, 2 Stormwater Outfalls, 1 Culvert Road Crossing 3000LF of ditch cleaning and disposal, and all other related work and appurtenances. The design of the proposed stormwater project will follow the WV Department of Environmental Protection "Stormwater Management Structure Guidance Documentation-September 2006) and WVDOH drainage manual. White Sulphur Springs has identified needed upgrades and improvements to the existing stormwater infrastructure. The improvements consist of cleaning existing ditches to convey stormwater flows more efficiently, repair failing stormwater transmission lines, and the installation of new stormwater infrastrurcture (inlet, lines, etc.).

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

## Grantee Activity Number: MGIPUN-0003

### Activity Title: Craigsville PSD Water Plant Relocation

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Urgent Need Mitigation: Activities funded with the CDBG-MIT grant that result in measurable and verifiable reductions in the risk of loss of life and property from future disasters and yield community development benefits

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 3,174,000.00

**Most Impacted and Distressed Budget:** \$ 3,174,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 3,174,000.00

**Ancillary Activities**

None

**Projected Beneficiaries**

# of structures harden against future flood events

Total	Low	Mod	Low/Mod%
2			0.00

**Projected Accomplishments**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level



# of fewer outages of critical facilities and utilities	
# of acres no longer vulnerable to flood events	2
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	30
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	
% decrease in road closures in target area during a flood event	
% decrease in disruption hours to residents and businesses from impacts of	
% decrease in area inundated by flooding	
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	1
# of pump stations repaired/replaced	2
# of linear feet of stream restored	
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	2
# of acres of native vegetation planted	
# of residents protected from future flooding	
# of properties protected from future flooding	2
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	1
# occupied structures in floodplain	
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	
% reduction of watershed nitrate loading	
# of Elevated Structures	2
# of Linear Feet of Water Lines	21000
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	4



**# of Linear feet of Public Improvement**

<b># of Non-business Organizations benefitting</b>	1908
<b># of public facilities</b>	2
<b># of buildings (non-residential)</b>	2

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
CRAIGSVILLE PUBLIC SERVICE DISTRICT	Other	\$ 3,174,000.00

**Location Description:**

The Craigs ville PSD Water Treatment Plant located at #2 PSD Drive Craigs ville, WV, in Nicholas County, a HUD MID s designated county. The district was founded in 1959 and provides water to customers in Allingdale, Beaver, Calvin, Cottle, Craigs ville, Tioga, and Werth as outlined in the Service Area mapping by the engineer. The District also sells water to Camden-on Gauley and occasionally to the City of Summersville. The district services currently serve 1,901 residential customers, 115 commercial customers, three {3} industrial customers and one resale customer and the capability for a second resale customer with a treatment plant capacity of 565 GPM. For 2020 the Craigs ville PSD the total customer base was 2,021.

The upgrading water treatment plant for the Craigs ville PSD in the parcel adjacent to the existing water treatment plant. The proposed new structure will be constructed above the 500-year flood plain. The existing water treatment plant will be decommissioned however the building will be utilized for storage. The Craigs ville PSD is located along the banks of the Gauley River, Star Route 20 and the former B&O Railroad Depot and tracks, the property is in the Beaver District of Nicholas County. Relocating and updating the facility will help ensure portable water for the customers in the service area.

**Activity Description:**

Oversight of the project will be in conjunction with Region 4 Planning and Development Council, The Thrasher Group and the Craigs ville PSD to ensure compliance with WV Code, Quarterly Project updates, environmental guidances and the project goals outlined in the PER.

The Project will focus on constructing a new 900 GPM water treatment plant at the existing Craigs ville Water Treatment Plant site. Upgrading water treatment plant (WTP) for the Craigs ville PSD in the open field adjacent to the existing WTP. The existing and proposed sites are located in Allingdale, WV along the Gauley River. The upgraded WTP will be constructed above the 500-year flood plain.

The new Water Treatment Plant will:

Be sized so that it would pump water less than 1 O hours per day as the regulations from the WVBOH recommends.

Permit the existing plant to be operating during construction of the new plant. The filter backwash solids and sedimentation sludge and can be pumped to the existing Craigs ville Wastewater Treatment Plant as it is currently with the existing plant.

Allow Craigs ville PSD to remain as a back-up source of water for the City of Summersville as needed.

Increase capacity of the plant from 565 GPM to 900 GPM, which will allow future addition of customers for the PSD,s system.

The existing WTP will be decommissioned and converted to storage facility for the new structure. The increased capacity for storage can assist the PSD with cost saving efforts as maintaining an inventory of supplies which can often be pre-purchased at a better rate and the ability to store mechanical equipment that be repaired, re-purposed and relocated. In addition, to the facility benefits the outlined project adheres to the Region 4 PDC Hazard Mitigation Goals and Objectives in protecting the Community Lifelines of Water, Food and Shelter. The mitigation measures can secure the supply of water in times of disasters, like floods, which can instantly put a significant strain on the ability of low and moderate income family units to maintain access to water, shelter for residents, and interrupt food and supplies.



**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

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## Grantee Activity Number: MGIPUN-0004

### Activity Title: Water Treatment Plant Relocation Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Urgent Need Mitigation: Activities funded with the CDBG-MIT grant that result in measurable and verifiable reductions in the risk of loss of life and property from future disasters and yield community development benefits

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 8,304,000.00

**Most Impacted and Distressed Budget:** \$ 8,304,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 8,304,000.00

**Total**

1

1





# of acres no longer vulnerable to flood events	
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	7
% increase in number of acres converted to open space	1
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	
% decrease in road closures in target area during a flood event	
% decrease in disruption hours to residents and businesses from impacts of	100
% decrease in area inundated by flooding	
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	1
# of linear feet of stream restored	
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	1101
# of properties protected from future flooding	1
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	1
# occupied structures in floodplain	
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	3220510
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	1500000
\$ Funds allocated for water management/flood mitigation improvements	4250000
% reduction of watershed nitrate loading	
# of Elevated Structures	1
# of Linear Feet of Water Lines	6500
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	
# of Linear feet of Public Improvement	



# of Non-business Organizations benefitting	8
# of public facilities	1
# of buildings (non-residential)	1

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
ALDERSON, TOWN OF	Local Government	\$ 8,304,000.00

**Location Description:**

The current plant site is located within the floodplain of the Greenbrier River in the Town of Alderson in Greenbrier County and as a result, faces the threat of future flood events. To mitigate the risk, this project proposes the relocation and replacement of the Town's existing water treatment plant with a package water treatment plant on the adjacent lot that is not within the Greenbrier River floodplain. An existing vacant house located on the adjacent property will need to be removed to accommodate the proposed plant site. This solution will provide the most cost and time efficient solution for the Town's future water plant operation. In addition, this project will construct an alternative 350 gpm raw water pump station along Muddy Creek and the associated 6500 LF of 8" piping to connect it to the plant.

**Activity Description:**

The Town of Alderson is located in Greenbrier County, WV and serves approximately 704 customers within Greenbrier, Monroe, and Summers Counties. The Town's goal is to continue to provide a reliable source of water service and fire protection to their residents and the surrounding community. Through this project, the Town of Alderson hopes to replace and relocate its existing water treatment plant. The current plant site is located within the floodplain of the Greenbrier River and as a result, faces the threat of future flood events. In addition, the Town looks to construct a raw water intake with associated piping to provide a reliable backup source of raw water in the event that flood debris damages the primary intake located on the Greenbrier River.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: MGIPUN-0005

### Activity Title: City of Ronceverte Stormwater Infrastructure Improvements Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Urgent Need Mitigation: Activities funded with the CDBG-MIT grant that result in measurable and verifiable reductions in the risk of loss of life and property from future disasters and yield community development benefits

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 8,800,000.00

**Most Impacted and Distressed Budget:** \$ 8,800,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 8,800,000.00

**Ancillary Activities**

None

**Projected Accomplishments****Total**

# of Targeted Section 3 Labor Hours	2000
# of Section 3 Labor Hours	10000
# of Total Labor Hours	
% decrease in NFIP CRS score	5
# of storm water projects implemented	1
# of small water retention devices/systems installed	
# of reduced hours streets are flooded	24
# of linear feet of shoreline restored	
# cubic feet of stormwater storage added	
# of non-invasive species trees planted on project sites	
# acres of newly added or improved green space	
# of properties with access above 100-yr flood level	40



# of fewer outages of critical facilities and utilities	10
# of acres no longer vulnerable to flood events	15
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	20
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	50
% decrease in road closures in target area during a flood event	50
% decrease in disruption hours to residents and businesses from impacts of	1
% decrease in area inundated by flooding	5
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	26
# of pump stations repaired/replaced	
# of linear feet of stream restored	
# of containment systems constructed	1
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	12
# of acres of native vegetation planted	
# of residents protected from future flooding	
# of properties protected from future flooding	40
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	2
# occupied structures in floodplain	120
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	2000000
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	5800000
% reduction of watershed nitrate loading	
# of Elevated Structures	1
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	1



# of Linear feet of Public Improvement	3500
# of Non-business Organizations benefitting	2
# of public facilities	3
# of buildings (non-residential)	68

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
RONCEVERTE, CITY OF	Local Government	\$ 8,800,000.00

**Location Description:**

The City of Ronceverte Stormwater Infrastructure Improvements Project will take place throughout the City of Ronceverte in Greenbrier County, a MID County.

**Activity Description:**

This project will construct stormwater infrastructure improvements to mitigate flood hazards in the City of Ronceverte. The storm water project will serve 1,750 residents by reducing flooding along streets and sidewalks in the city.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: MGIPUN-0006

### Activity Title: Rupert Stormwater Improvements Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Urgent Need Mitigation: Activities funded with the CDBG-MIT grant that result in measurable and verifiable reductions in the risk of loss of life and property from future disasters and yield community development benefits

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

**Total**

6

6

1



# of acres no longer vulnerable to flood events	1
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	25
% decrease in road closures in target area during a flood event	50
% decrease in disruption hours to residents and businesses from impacts of	50
% decrease in area inundated by flooding	40
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	6
# of pump stations repaired/replaced	
# of linear feet of stream restored	
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	5
# of properties protected from future flooding	5
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	1
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	2000000
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	
# of Linear feet of Public Improvement	



# of Non-business Organizations benefitting

# of public facilities

# of buildings (non-residential) 1

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
RUPERT, TOWN OF	Local Government	\$ 2,600,000.00

**Location Description:**

The Town of Rupert is located in Greenbrier County, a MID County. The Town currently owns and operates a stormwater collection system throughout the Town of Rupert.

**Activity Description:**

The Town of Rupert Stormwater Improvement Project is located in the Town of Rupert in Greenbrier County. The project will rehabilitate existing stormwater infrastructure in the Town, Clean existing ditches to convey stormwater flows more efficiently, and Installation of new stormwater infrastructure. The project will upgrade the current stormwater system, clean ditch lines and install new infrastructure. The Stormwater Improvement Project will install 5500 LF of 18" HOPE Storm Pipe, Installation of 500 LF of 16: Railroad Casing Pipe, 18,050 LF of Ditch Cleaning and Disposal of debris.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None





## Grantee Activity Number: MGIPUN-0007

### Activity Title: Summersville Storm Water

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Urgent Need Mitigation: Activities funded with the CDBG-MIT grant that result in measurable and verifiable reductions in the risk of loss of life and property from future disasters and yield community development benefits

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

**Total**

1

2

8

200000

100

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 1,042,350.00

**Most Impacted and Distressed Budget:** \$ 1,042,350.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 1,042,350.00



# of acres no longer vulnerable to flood events	1
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	10
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	10
% decrease in road closures in target area during a flood event	60
% decrease in disruption hours to residents and businesses from impacts of	60
% decrease in area inundated by flooding	50
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	1500
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	
# of properties protected from future flooding	
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	1
# occupied structures in floodplain	
# linear feet of streams restored	1500
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	1000000
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	6
# of Linear feet of Public Improvement	3000



# of Non-business Organizations benefitting

2

# of public facilities

# of buildings (non-residential)

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
SUMMERSVILLE, CITY OF	Local Government	\$ 1,042,350.00

**Location Description:**

The project take place in the Town of Summerville and will reduce flooding along Kentucky Road, its adjacent streets, and the unnamed lribulary that parallels the roadway.The project will also consist of stabilizing and Installing detention areas to help slow and reduce water from flooding adjacent property owners along the unnamed tributary of Arbuckle Branch.

**Activity Description:**

The City of Summerville Storm Water project will reduce flooding along Kentucky Road, its adjacent streets, and the unnamed tributary that parallels the roadway. Unfortunately, when heavy rainfalls occur now, Kentucky Road floods causing water to find its own path to the nearby stream. Often this results in the eroding of the.road, leaving the road unpassable with water and debris. The project goal is to install a closed storm water system to capture the storm water into pipes. Use of curb and gutters, concrete and/or dump rock gutters would be installed to transport the water into the-proposed storm system. The project will also consist of stabilizing and installing dentention areas to help slow and reduce water from flooding adjacent property owners along the unnamed tributary of Arbuckle Branch.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



**Grantee Activity Number: NGIPLMI-0008**

**Activity Title: City of Spencer Miletree #1 Dam Modifications Project**

**Activity Type:**  
MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**  
Infrastructure1

**Projected Start Date:**  
12/01/2021

**Project Draw Block by HUD:**  
Not Blocked

**Activity Draw Block by HUD:**  
Not Blocked

**Block Drawdown By Grantee:**  
Not Blocked

**National Objective:**  
Low/Mod: Benefit to low- and moderate-income persons/families

**Benefit Report Type:**  
Area Benefit (Census)

**Activity Status:**  
Under Way

**Project Title:**  
General Infrastructure

**Projected End Date:**  
12/31/2024

**Project Draw Block Date by HUD:**  
01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**  
01/14/2033 by Steven Edwards

**Total Budget:** \$ 535,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 535,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

**Total**

# of Singlefamily Units	
# of Multifamily Units	
# of Housing Units	
# of Targeted Section 3 Labor Hours	40
# of Section 3 Labor Hours	160
# of Total Labor Hours	
% decrease in NFIP CRS score	
# of storm water projects implemented	
# of small water retention devices/systems installed	1
# of reduced hours streets are flooded	24
# of linear feet of shoreline restored	
# cubic feet of stormwater storage added	
# of non-invasive species trees planted on project sites	



# acres of newly added or improved green space	
# of properties with access above 100-yr flood level	
# of fewer outages of critical facilities and utilities	1
# of acres no longer vulnerable to flood events	100
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	
% decrease in road closures in target area during a flood event	
% decrease in disruption hours to residents and businesses from impacts of	100
% decrease in area inundated by flooding	
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	130
# of containment systems constructed	1
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	850
# of properties protected from future flooding	230
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	45000000
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	470000
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	



# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	
# of Linear feet of Public Improvement	130
# of Non-business Organizations benefitting	25
# of public facilities	1
# of buildings (non-residential)	

LMI%:	55.58
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**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
Spencer	Unknown	\$ 0.00
SPENCER, CITY OF	Local Government	\$ 0.00

**Location Description:**

The project will take place in Spencer, WV and will construct improvements to the existing Spencer Sanitary Sewer System, which includes the following: relocating approximately 600 l.f. of sewer line in Front Street and adjacent to Spring Creek due to damage by flood waters, replacemet of the sewer line crossing beneath Spring Creek at Elm Street due to subsidence, rehabilitation of approximately 72 manholes under the influence of adjacent streams, construction of additional surge storage of excess inflows at the treatment plant during wet water and/or storm events, relocation of approximately 1,500 l.f. of sewerline out of the spring creek channel along US route 119 bypass requiring the construction of a lift station and grinder station, and the installation of misc. appurtenances.

**Activity Description:**

This project will mitigate a high risk dam in Spencer. The City is currently under Order from the West Virginia Department of Environmental Protection to modify (or remove) this Dam in order to comply with current governmental regulations. It is in the public's best interest for it to modify this structure in lieu of abandonment. Planned modifications include the installation of drainage structures within the existing embankment along with associated clearing, grubbing, excavation, embankment, concrete work, slope protection, removal of existing concrete spillway, seeding and mulching, and other miscellaneous items.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes**

<b>Subject to Section 3 Requirements:</b>	Yes
<b>Disaster Type:</b>	Flood
<b>Facility Type:</b>	Dam
<b>Critical Facility or Infrastructure Sector:</b>	Yes
<b>Improve Critical Government Functions:</b>	No
<b>Covered Project:</b>	No
<b>Opportunity Zone Investment:</b>	No

**Activity Supporting Documents:** None



**Environmental Reviews:** None

**Grantee Activity Number: NCIPLMI-0009**

**Activity Title: Town of Marlinton Storm Sewer**

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 8,655,040.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 8,655,040.00

**Total**

1



**# of linear feet of shoreline restored**  
**# cubic feet of stormwater storage added**  
**# of non-invasive species trees planted on project sites**  
**# acres of newly added or improved green space**  
**# of properties with access above 100-yr flood level**  
**# of fewer outages of critical facilities and utilities**  
**# of acres no longer vulnerable to flood events**  
**# of green infrastructure projects constructed**  
**# of acres green infrastructure created**  
**% reduction of water surface elevation level**  
**% reduction of sanitary sewer overflows** 25  
**% reduction in loss of service**  
**% reduction in energy costs**  
**% increase in pumping capacity**  
**% increase in number of acres converted to open space**  
**% increase in groundwater infiltration**  
**% increase in acres of cropland protected from flooding**  
**% decrease water surface elevation level during a flood with a qualifying event**  
**% decrease in road closures in target area during a flood event**  
**% decrease in disruption hours to residents and businesses from impacts of**  
**% decrease in area inundated by flooding**  
**% decrease in affluent discharged**  
**% reduction in emergency maintenance costs**  
**# of water control structures repaired/replaced**  
**# of pump stations repaired/replaced**  
**# of linear feet of stream restored**  
**# of containment systems constructed**  
**# of brownfield acres converted to wetland**  
**# of acres with improved multiple hazard risk mapping**  
**# of acres of native vegetation planted**  
**# of residents protected from future flooding**  
**# of properties protected from future flooding**  
**# of acres green space preserved**  
**# of acres green space created**  
**# of vacant lots repurposed**  
**# occupied structures in floodplain**  
**# linear feet of streams restored**  
**# acres of wetlands created**  
**\$ estimated flood loss avoidance**  
**# of linear feet of trails constructed**  
**# of greenspace users**  
**\$ Funds allocated for water-quality improvements**  
**\$ Funds allocated for water management/flood mitigation improvements** 8655040





% reduction of watershed nitrate loading

# of Elevated Structures

# of Linear Feet of Water Lines

# of Linear Feet of Sewer Lines

# of Linear miles of Public Improvement

# of Linear feet of Public Improvement

# of Non-business Organizations benefitting

# of public facilities

# of buildings (non-residential)

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
Town of Marlinton	Local Government	\$ 8,655,040.00

**Location Description:**

The project will take place throughout the Town of Marlinton, WV in Pocahontas County, a non-MID County.

**Activity Description:**

The existing facilities consist of a 200,000 gallon per day (gpd) wastewater treatment lagoon and five pumping stations.

The study performed found several serious issues regarding extraneous water, particularly in regard to storm sewers being connected sanitary collections sewers. Those storm sewer connections will be the primary focus of the proposed TOI-m of Marlinton Storm Water project.

The project will be separating storm water from the sanitary sewer collection system.

With the construction of the project, the customers served by the Town will be provided with a dependable and efficient wastewater and storm water collection system.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: NGIPLMI-0010

### Activity Title: City of Spencer Wastewater System Improvements Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 3,880,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 3,880,000.00

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments****Total**

# of Targeted Section 3 Labor Hours

40

# of Section 3 Labor Hours

160

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

1500

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

1



# of acres no longer vulnerable to flood events	
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	100
% reduction in loss of service	100
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	
% decrease in road closures in target area during a flood event	
% decrease in disruption hours to residents and businesses from impacts of	100
% decrease in area inundated by flooding	
% decrease in affluent discharged	50
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	2320
# of properties protected from future flooding	
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	
# linear feet of streams restored	1500
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	3940000
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	2100
# of Linear miles of Public Improvement	
# of Linear feet of Public Improvement	2100



# of Non-business Organizations benefitting

# of public facilities

1

# of buildings (non-residential)

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
SPENCER, CITY OF	Local Government	\$ 3,880,000.00

**Location Description:**

The project will construct improvements to the existing Spencer Sanitary Sewer System including relocating approximately 600 l.f. of sewer line in Front Street and adjacent to Spring Creek due to damage by flood waters, replacenet of the sewer line crossing beneath Spring Creek at Elm Street due to subsidence, rehabilitation of approximately 72 manholes under the influence of adjacent streams, construction of additional surge storage of excess inflows at the treatment plant during wet water and/or storm events, relocation of approximately 1,500 l.f. of sewerline out of the spring creek channel along US route 119 bypass requiring the construction of a lift station and grinder station, and the installation of misc. appurtenances.

**Activity Description:**

The project will relocate wastewater collection lines out of the floodplain and construct additional pumping and surge flow storage capacity at the treatment works. These improvements will reduce the threat of flooding events to the wastewater treatment facility that serves 1,552 customers.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: NGIPLMI-0011

### Activity Title: Town of Addison Storm Sewer Replacement/ Extension Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 4,388,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 4,388,000.00

**Benefit Report Type:**

Direct (Person)

**Ancillary Activities**

None

**Projected Accomplishments****Total**

# of Singlefamily Units

# of Multifamily Units

# of Housing Units

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites



# acres of newly added or improved green space	
# of properties with access above 100-yr flood level	
# of fewer outages of critical facilities and utilities	
# of acres no longer vulnerable to flood events	2
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	30
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	
% decrease in road closures in target area during a flood event	
% decrease in disruption hours to residents and businesses from impacts of	
% decrease in area inundated by flooding	
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	2
# of acres of native vegetation planted	
# of residents protected from future flooding	2
# of properties protected from future flooding	
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	
# linear feet of streams restored	
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	
% reduction of watershed nitrate loading	
# of Elevated Structures	2
# of Linear Feet of Water Lines	21000



# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	4
# of Linear feet of Public Improvement	21000
# of Non-business Organizations benefitting	1908
# of public facilities	
# of buildings (non-residential)	2

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
TOWN OF ADDISON	Local Government	\$ 4,388,000.00

**Location Description:**

The project is located in the the Town of Addison (commonly known as Webster Springs) in Webster County. Webster Springs sits between the confluence of the Elk River and the Back Fork of the Elk River. Upland portions of the Town are located on steep mountainside terrain with lowland portions of the Town being adjacent to the two rivers and very flat.

**Activity Description:**

This project will replace an existing and undersized storm sewer in the Town of Addison, directly serving Addison’s population of 806 people. The project currently consists of 12,320 feet of 30", 24", and 12" storm sewer pipes with 9C drop inlets in multiple streets in town. Webster Springs sits between the confluence of the Elk River and the Back Fork of the Elk River. Upland portions of the Town are located on steep mountainside terrain with lowland portions of the Town being adjacent to the two rivers and very flat.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: NGIPLMI-0012

### Activity Title: City of Oak Hill-Minden Flood Mitigation Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 4,739,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 4,739,000.00

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments****Total**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

1

# of small water retention devices/systems installed

2

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

630000

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

2

# of properties with access above 100-yr flood level

300

# of fewer outages of critical facilities and utilities





# of acres no longer vulnerable to flood events	20
# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	10
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	20
% decrease in road closures in target area during a flood event	40
% decrease in disruption hours to residents and businesses from impacts of	20
% decrease in area inundated by flooding	20
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	
# of containment systems constructed	2
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	1
# of acres of native vegetation planted	
# of residents protected from future flooding	350
# of properties protected from future flooding	
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	
# linear feet of streams restored	375
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	3900000
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	1
# of Linear feet of Public Improvement	700



# of Non-business Organizations benefitting

200

# of public facilities

# of buildings (non-residential)

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
OAK HILL, CITY OF	Local Government	\$ 4,739,000.00

**Location Description:**

The project will take place at Arbuckle Creek located in the town of Minden in Fayette County, West Virginia. The culvert located approximately 1560' from the intersection of Minden Road and Main Street is proposed to be upgraded to help convey the drainage underneath the road to Arbuckle Creek. The project will improve the safety and security in the Minden area during high flow events as well as address the transportation impacts during high flow events. Water was pooling on roadways and there was flooding in low lying areas which made it difficult to get in and out of Minden.

**Activity Description:**

The Minden Stormwater Project is a proposed mitigation plan for Arbuckle Creek located in the town of Minden in Fayette County, West Virginia. The culvert located approximately 1560' from the intersection of Minden Road and Main Street is proposed to be upgraded to help convey the drainage underneath the road to Arbuckle Creek. The current pipe is clogging and causing the existing sanitary sewer treatment facility to be flooded. Behind the sewer treatment facility, it is recommended that approximately 375 linear feet of Arbuckle Creek be restored to its natural state. Currently this section of the stream is narrow and has high velocities. By restoring this section of the stream to have natural run, riffle and pool associated with streams will greatly reduce the velocities and help maintain the integrity of Arbuckle Creek downstream. There are 3 areas that have small bridge structures that span Arbuckle Creek located on Old Minden Road, Delta Road 13, Delta Road 14. These structures should be increased in size to allow the stream to flow unimpeded during high flow events. A proposed overflow detention pond is located near County Route 17 /2. This would allow water for a higher flow event to enter this area and be controlled through an outlet and weir structure. This would help alleviate flooding issues to residents downstream. Currently there is an existing drainage ditch located north of the intersection of Minden Road and Duncan Road with steep slopes causing high velocities and flow toward Arbuckle Creek. It is proposed to create a detention pond in this area to reduce the flow entering Arbuckle Creek and minimize flooding conditions to residence. The pond would be a controlled outlet through a riser pipe and a weir structure.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: NGIPLMI-0013

### Activity Title: Camp Caesar

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 1,584,560.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 1,584,560.00

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
WEBSTER, COUNTY OF	Local Government	\$ 1,584,560.00

**Location Description:**

The project will take place at Camp Cear Lake and the downstream camp area located in Cowen, West Virginia. The project will take place in a non-MID CDBG-MIT County.

**Activity Description:**

This project will renovate infrastructure and a dam at Camp Caesar in Webster County. In times of emergency the camp is designated as an emergency shelter for a nearby nursing home, a space for the National Guard, and the 8,386 residents of Webster County. Renovations to the dam will include upgrading the dam, modifying the main and emergency spillways to bring it into compliance, improving streamflow, reinforcing stream banks, and hardening infrastructure at Camp Caesar.



**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

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## Grantee Activity Number: NGIPLMI-0014

### Activity Title: Flood Mitigation Project

**Activity Type:**

MIT - Public Facilities and Improvements-Non Covered Projects

**Project Number:**

Infrastructure1

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Low/Mod: Benefit to low- and moderate-income persons/families

**Activity Status:**

Under Way

**Project Title:**

General Infrastructure

**Projected End Date:**

12/31/2024

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 4,350,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 4,350,000.00

**Benefit Report Type:**

NA

**Ancillary Activities**

None

**Projected Accomplishments**

# of Targeted Section 3 Labor Hours

# of Section 3 Labor Hours

# of Total Labor Hours

% decrease in NFIP CRS score

# of storm water projects implemented

# of small water retention devices/systems installed

# of reduced hours streets are flooded

# of linear feet of shoreline restored

# cubic feet of stormwater storage added

# of non-invasive species trees planted on project sites

# acres of newly added or improved green space

# of properties with access above 100-yr flood level

# of fewer outages of critical facilities and utilities

# of acres no longer vulnerable to flood events

**Total**

1

57



# of green infrastructure projects constructed	
# of acres green infrastructure created	
% reduction of water surface elevation level	
% reduction of sanitary sewer overflows	
% reduction in loss of service	
% reduction in energy costs	
% increase in pumping capacity	
% increase in number of acres converted to open space	
% increase in groundwater infiltration	
% increase in acres of cropland protected from flooding	
% decrease water surface elevation level during a flood with a qualifying event	
% decrease in road closures in target area during a flood event	
% decrease in disruption hours to residents and businesses from impacts of	
% decrease in area inundated by flooding	
% decrease in affluent discharged	
% reduction in emergency maintenance costs	
# of water control structures repaired/replaced	
# of pump stations repaired/replaced	
# of linear feet of stream restored	1050
# of containment systems constructed	
# of brownfield acres converted to wetland	
# of acres with improved multiple hazard risk mapping	
# of acres of native vegetation planted	
# of residents protected from future flooding	2550
# of properties protected from future flooding	261
# of acres green space preserved	
# of acres green space created	
# of vacant lots repurposed	
# occupied structures in floodplain	
# linear feet of streams restored	1050
# acres of wetlands created	
\$ estimated flood loss avoidance	
# of linear feet of trails constructed	
# of greenspace users	
\$ Funds allocated for water-quality improvements	
\$ Funds allocated for water management/flood mitigation improvements	4400000
% reduction of watershed nitrate loading	
# of Elevated Structures	
# of Linear Feet of Water Lines	
# of Linear Feet of Sewer Lines	
# of Linear miles of Public Improvement	1
# of Linear feet of Public Improvement	5250
# of Non-business Organizations benefitting	



# of public facilities

# of buildings (non-residential)

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
CITY OF HINTON	Local Government	\$ 4,350,000.00

**Location Description:**

The project will take place throughout the City of Hinton in Summers County, a non-MID County.

**Activity Description:**

The project consists of installation of approximately 3,600 linear feet of storm drain piping, twenty-four drop inlets, 600 feet of open channel grated drains, forty-eight roof drain connections to address storm water runoff in the areas along Campbell, Pine, Locust, Burk, Elm, Broadway, Edmund, Walnut, Taylor, and Terrace Streets. Additionally, the project will replace an existing 800 feet long box culvert along First and Grace Street, replace ten drop inlets connected to the large box culvert with approximately 250 feet of storm drain pipe and related work to assist in reducing the impacts of storm water runoff and flood related traffic restrictions on the one-way main streets. Further, the project will seal twenty-seven existing CSO manholes to prevent water from the New River entering into the CSO manholes during flood events. In total the project will benefit 1,240 existing customers and make approximately fifty-seven acres resilient to flooding.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

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**Project # / Planning1 / State Planning**



## Grantee Activity Number: State Planning1

### Activity Title: State Planning

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning1

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

State Planning

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 1,500,000.00

**Most Impacted and Distressed Budget:** \$ 750,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 1,500,000.00

**Ancillary Activities**

None

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
West Virginia Development Office	State	\$ 1,500,000.00

**Location Description:**

Clay, Greenbrier, Kanawha, and Nicholas, Fayette, Jackson, Lincoln, Monroe, Pocahontas, Roane, Summers, and Webster

**Activity Description:**

In accordance with the Federal Register, WVDO's aggregate total for administrative planning and administrative costs combined may not exceed 20%, with administrative funds capped at 5%. Because the State is allocating its full 5% to the cost of administering the CDBG-MIT grant, the State has 15% remaining for planning activities.

At this time, the State wishes to only allocate 6.1% to state-level planning activities. In total, the planning programs described in the previous section allocate a combined 8%, and the State will retain the 6.1% (totaling





14.1% for planning; 5% for administration). Activities the State may undertake with its planning allocation include but are not limited to Action Plan writing and amendments, capacity support for the State's Resiliency Office (SRO), funding for the update of the State Hazard Mitigation Plan, and coordination of a State wide data collection system for the WVCAD office to centralize risk and hazard data.

**Environmental Assessment:** COMPLETED

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:**

**Document** State Planning and Admin ER.pdf

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**Project # / Planning2 / Regional and Local Planning**



# Grantee Activity Number: Regional and Local Planning 1

## Activity Title: Regional and Local Planning MID

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning2

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional and Local Planning

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 770,625.00

**Most Impacted and Distressed Budget:** \$ 770,625.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 770,625.00

**Ancillary Activities**

None

**Projected Accomplishments****Total**

- # of revised zoning codes incorporating resiliency adopted
- % of survey respondents with an increased understanding of flood risks and
- # of Stormwater Management Zoning Ordinances adopted
- # of Hazard Mitigation Plans prepared
- # of floodplain design standards updated
- # of resilience planning recommendations implemented
- # of public education meetings
- # of acres with improved multiple hazard risk mapping
- # of planning studies and initiatives completed
- # of persons at resilience meetings
- # of local laws passed
- # of entities at resilience meetings
- # of ecological actions identified
- # of plans adopted



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products 8
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 770,625.00

**Location Description:**

Clay, Greenbrier, Kanawha, Nicholas

**Activity Description:**

The Regional and Local Grant Program (RLPG program) will provide funding opportunities for variety of regional and local mitigation planning efforts, including for local capacity building. WVDO recognizes that planning is an important aspect of mitigation and that not all UGLGs have access to full-time planning staff nor the resources to contract studies that would help local communities better understand their vulnerabilities. The creation of this program seeks to address this gap, as well as aims to build local capacity to better plan for impactful projects that may be funded through the GIP and PFGP programs outlined above. Proposed planning efforts are encouraged to address the limited availability, standardization, or access to data related to historical or future risk for several hazards as noted in the mitigation needs assessment.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: Regional and Local Planning2

### Activity Title: Regional and Local Planning NMID

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning2

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional and Local Planning

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 1,337,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 1,337,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

- # of revised zoning codes incorporating resiliency adopted
- % of survey respondents with an increased understanding of flood risks and
- # of Stormwater Management Zoning Ordinances adopted
- # of Hazard Mitigation Plans prepared
- # of floodplain design standards updated
- # of resilience planning recommendations implemented
- # of public education meetings
- # of acres with improved multiple hazard risk mapping
- # of planning studies and initiatives completed
- # of persons at resilience meetings
- # of local laws passed
- # of entities at resilience meetings
- # of ecological actions identified
- # of plans adopted

**Total**

- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products 8
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 1,337,000.00

**Location Description:**

Fayette, Jackson, Lincoln, Monroe, Pocahontas, Roane, Summers, and Webster

**Activity Description:**

The Regional and Local Grant Program (RLPG program) will provide funding opportunities for variety of regional and local mitigation planning efforts, including for local capacity building. WVDO recognizes that planning is an important aspect of mitigation and that not all UGLGs have access to full-time planning staff nor the resources to contract studies that would help local communities better understand their vulnerabilities. The creation of this program seeks to address this gap, as well as aims to build local capacity to better plan for impactful projects that may be funded through the GIP and PFGP programs outlined above. Proposed planning efforts are encouraged to address the limited availability, standardization, or access to data related to historical or future risk for several hazards as noted in the mitigation needs assessment.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: RPMTPLMID-0015

### Activity Title: Crossing the Bridge to Safety Project

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning2

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional and Local Planning

**Projected End Date:**

12/31/2023

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 250,000.00

**Most Impacted and Distressed Budget:** \$ 250,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 250,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

- # of revised zoning codes incorporating resiliency adopted
- % of survey respondents with an increased understanding of flood risks and
- # of Stormwater Management Zoning Ordinances adopted
- # of Hazard Mitigation Plans prepared
- # of floodplain design standards updated
- # of resilience planning recommendations implemented
- # of public education meetings
- # of acres with improved multiple hazard risk mapping
- # of planning studies and initiatives completed
- # of persons at resilience meetings
- # of local laws passed
- # of entities at resilience meetings
- # of ecological actions identified
- # of plans adopted

**Total**

# of resilience plans created	
# of jurisdictions with enacted resiliency plans/ordinances	6
# of climate action plans completed	
# of water management/flood plans completed	
# of water management/flood maps updated	
# of mitigation plans completed	
# of legislative actions taken to improve resiliency	
# of infrastructure design standards updated	
# of energy plans completed	
# of disaster recovery plans completed	
# of communities with standards exceeding NFIP	
# of community engagement meetings/events	2
# of Plans or Planning Products	
# of Non-business Organizations benefitting	50

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
REGION 4 PLANNING AND DEVELOPMENT COUNCIL	Other	\$ 250,000.00

**Location Description:**

The project will take place throughout the following Counties: Lincoln, Fayette, Greenbrier, Nicholas, Pocahontas, and Webster.

**Activity Description:**

This project will identify residential bridges at risk of flooding in Greenbrier, Nicholas, Fayette, Pocahontas, Webster, and Lincoln counties.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



**Grantee Activity Number: RPMTPLMID-0016**

**Activity Title: City of Lewisburg Stormwater Management Assessment Project**

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning2

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional and Local Planning

**Projected End Date:**

12/31/2023

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 250,000.00

**Most Impacted and Distressed Budget:** \$ 250,000.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 250,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

**Total**

# of revised zoning codes incorporating resiliency adopted	1
% of survey respondents with an increased understanding of flood risks and	
# of Stormwater Management Zoning Ordinances adopted	1
# of Hazard Mitigation Plans prepared	
# of floodplain design standards updated	1
# of resilience planning recommendations implemented	3
# of public education meetings	2
# of acres with improved multiple hazard risk mapping	2432
# of planning studies and initiatives completed	1
# of persons at resilience meetings	100
# of local laws passed	
# of entities at resilience meetings	100
# of ecological actions identified	1





# of plans adopted	1
# of resilience plans created	1
# jurisdictions with enacted resiliency plans/ordinances	1
# of climate action plans completed	
# of water management/flood plans completed	1
# of water management/flood maps updated	1
# of mitigation plans completed	1
# of legislative actions taken to improve resiliency	
# of infrastructure design standards updated	1
# of energy plans completed	
# of disaster recovery plans completed	1
# of communities with standards exceeding NFIP	
# of community engagement meetings/events	2
# of Plans or Planning Products	1
# of Non-business Organizations benefitting	70

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
LEWISBURG, CITY OF	Local Government	\$ 250,000.00

**Location Description:**

The study will encompass the entire City of Lewisburg located in a Greenbriar County, which is a MID County.

**Activity Description:**

The purpose of the City of Lewisburg Stormwater Management Study is to analyze, map, and develop plans that address deficiencies in the aging stormwater system and the development of sinkholes caused by the flow of stormwater into the underground karst system the city is built upon.

This study will map the current stormwater drainage system and note areas that will need to be corrected in future projects. Understanding that the stormwater system needs to be improved along with identifying and mapping potential problem areas will give city planners a guide upon which to develop an action plan to address and prioritize key areas of need.

Sinkhole Watershed modeling will be done to link stormwater drainage to the develop of sinkholes throughout the city. The study will produce a karst stormwater operation and management plan that will address the immediate and future needs to mitigate stormwater damage and sinkhole development in the Lewisburg city limits.

A karst stormwater monitoring plan will also be developed to provide the city a source to better understand and monitor how stormwater is affecting the underground karst system and develop an action plan to mitigate future problem areas.

The study will be completed over a 24 -month period which will include field study and data collection, watershed modeling and analysis, and development of a stormwater system management plan.

The work will be completed by the contracted consultant working along side the Director of Public Works for the city. The short term anticipated outcomes are the mapping of the stormwater system leading to a better understanding of how to address future issues along with the development of a stormwater1 management plan that will become the guide for future activities.

Long term outcomes would be the repair or replacement of the aging stormwater system which will in turn minimize the development of sinkholes. This will reduce the cost to the city for the continual and costly repair that sinkholes cause throughout the city. This will also increase the safety for the citizens of Lewisburg both as pedestrians and motorists. LMI designated, along with other citizens will benefit from safety brochures produced and gain a better understanding of the hazards of stormwater flow and sinkhole designations.

This study will act as a guide for the development of long-range capital improvement and land use planning within the City of Lewisburg. Building code amendments will also be addressed in the study and recommendations made for the city's approval.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

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**Grantee Activity Number: RPMTPLMID-0017**

**Activity Title: Evaluation of Short Term Flood Control Barrier Systems**

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning2

**Projected Start Date:**

12/01/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional and Local Planning

**Projected End Date:**

12/31/2023

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 229,375.00

**Most Impacted and Distressed Budget:** \$ 229,375.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 229,375.00

**Ancillary Activities**

None

**Projected Accomplishments**

**Total**

# of revised zoning codes incorporating resiliency adopted	
% of survey respondents with an increased understanding of flood risks and	
# of Stormwater Management Zoning Ordinances adopted	
# of Hazard Mitigation Plans prepared	
# of floodplain design standards updated	
# of resilience planning recommendations implemented	
# of public education meetings	
# of acres with improved multiple hazard risk mapping	40
# of planning studies and initiatives completed	40
# of persons at resilience meetings	
# of local laws passed	
# of entities at resilience meetings	100
# of ecological actions identified	



# of plans adopted	
# of resilience plans created	
# jurisdictions with enacted resiliency plans/ordinances	
# of climate action plans completed	
# of water management/flood plans completed	
# of water management/flood maps updated	
# of mitigation plans completed	
# of legislative actions taken to improve resiliency	
# of infrastructure design standards updated	
# of energy plans completed	
# of disaster recovery plans completed	
# of communities with standards exceeding NFIP	
# of community engagement meetings/events	20
# of Plans or Planning Products	
# of Non-business Organizations benefitting	20

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
MARSHALL UNIVERSITY RESEARCH CORPORATION	Other	\$ 229,375.00

**Location Description:**

Project will take place throughout the following Counties: Lincoln, Clay, Webster.

**Activity Description:**

This planning project will evaluate temporary flood control barriers and critical facilities for necessary short-term flood protection in Lincoln, Kanawha, Clay, Nicholas, Webster, and Greenbrier counties.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



**Grantee Activity Number: RPMTPLNMID-0018**

**Activity Title: Culvert and Bridge Mapping Project**

**Activity Type:**  
MIT - Planning and Capacity Building

**Project Number:**  
Planning2

**Projected Start Date:**  
12/01/2021

**Project Draw Block by HUD:**  
Not Blocked

**Activity Draw Block by HUD:**  
Not Blocked

**Block Drawdown By Grantee:**  
Not Blocked

**National Objective:**  
Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**  
NA

**Activity Status:**  
Under Way

**Project Title:**  
Regional and Local Planning

**Projected End Date:**  
12/31/2023

**Project Draw Block Date by HUD:**  
01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**  
01/14/2033 by Steven Edwards

**Total Budget:** \$ 163,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 163,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

**Total**

# of revised zoning codes incorporating resiliency adopted	
% of survey respondents with an increased understanding of flood risks and	
# of Stormwater Management Zoning Ordinances adopted	
# of Hazard Mitigation Plans prepared	
# of floodplain design standards updated	
# of resilience planning recommendations implemented	
# of public education meetings	
# of acres with improved multiple hazard risk mapping	200
# of planning studies and initiatives completed	
# of persons at resilience meetings	
# of local laws passed	
# of entities at resilience meetings	8
# of ecological actions identified	
# of plans adopted	



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products 1
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
MARSHALL UNIVERSITY RESEARCH CORPORATION	Other	\$ 163,000.00

**Location Description:**

The project will take place throughout the following non-MID Counties: Monroe and Summers.

**Activity Description:**

This project will identify flood prone culverts and low flow bridge structures, record the location and attributes of these sites, and develop a methodology to manage an inventory that allows users to view data in real time. The initial project locations will be in Monroe and Summers counties.

**Environmental Assessment:** UNDERWAY

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

**Project # / Planning3 / Regional Hazard Mitigation Plans**



# Grantee Activity Number: Hazard Mitigation Plans 1

## Activity Title: Hazard Mitigation Plans RPDC 1 Planning

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning3

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional Hazard Mitigation Plans

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 375,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 375,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

- # of revised zoning codes incorporating resiliency adopted
- % of survey respondents with an increased understanding of flood risks and
- # of Stormwater Management Zoning Ordinances adopted
- # of Hazard Mitigation Plans prepared
- # of floodplain design standards updated
- # of resilience planning recommendations implemented
- # of public education meetings
- # of acres with improved multiple hazard risk mapping
- # of planning studies and initiatives completed
- # of persons at resilience meetings
- # of local laws passed
- # of entities at resilience meetings
- # of ecological actions identified
- # of plans adopted

**Total**

2



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 375,000.00

**Location Description:**

Regional plan serving Summers and Monroe.

**Activity Description:**

To provide continued support to eligible Regional Planning Development Councils (RPDCs), the State will provide non-competitive direct grants for Hazard Mitigation Plan updates. This will occur on a rolling basis as the plan expire. There are five RPDCs that operate in the HUD and State MID areas; these RPDCs will be eligible for grants under this program. Additionally, the State may reserve funds under this program to update its State Hazard Mitigation Plan as related to the 12 HUD and nonMID counties.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None





## Grantee Activity Number: Hazard Mitigation Plans 3

### Activity Title: Hazard Mitigation Plans RPDC 3 Planning

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning3

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional Hazard Mitigation Plans

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 437,500.00

**Most Impacted and Distressed Budget:** \$ 437,500.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 437,500.00

**Ancillary Activities**

None

**Projected Accomplishments**

# of revised zoning codes incorporating resiliency adopted  
% of survey respondents with an increased understanding of flood risks and  
# of Stormwater Management Zoning Ordinances adopted  
# of Hazard Mitigation Plans prepared  
# of floodplain design standards updated  
# of resilience planning recommendations implemented  
# of public education meetings  
# of acres with improved multiple hazard risk mapping  
# of planning studies and initiatives completed  
# of persons at resilience meetings  
# of local laws passed  
# of entities at resilience meetings  
# of ecological actions identified  
# of plans adopted

**Total**

2



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 437,500.00

**Location Description:**

Regional plan serving Kanawha and Clay.

**Activity Description:**

To provide continued support to eligible Regional Planning Development Councils (RPDCs), the State will provide non-competitive direct grants for Hazard Mitigation Plan updates. This will occur on a rolling basis as the plan expire. There are five RPDCs that operate in the HUD and State MID areas; these RPDCs will be eligible for grants under this program. Additionally, the State may reserve funds under this program to update its State Hazard Mitigation Plan as related to the 12 HUD and State MID counties.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: Hazard Mitigation Plans 4

### Activity Title: Hazard Mitigation Plans RPDC 4 Planning

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning3

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional Hazard Mitigation Plans

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 437,500.00

**Most Impacted and Distressed Budget:** \$ 437,500.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 437,500.00

**Ancillary Activities**

None

**Projected Accomplishments**

# of revised zoning codes incorporating resiliency adopted  
% of survey respondents with an increased understanding of flood risks and  
# of Stormwater Management Zoning Ordinances adopted  
# of Hazard Mitigation Plans prepared  
# of floodplain design standards updated  
# of resilience planning recommendations implemented  
# of public education meetings  
# of acres with improved multiple hazard risk mapping  
# of planning studies and initiatives completed  
# of persons at resilience meetings  
# of local laws passed  
# of entities at resilience meetings  
# of ecological actions identified  
# of plans adopted

**Total**

2



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 437,500.00

**Location Description:**

Regional plans will serve Fayette, Nicholas, Webster, Pocahontas, and Greenbrier.

**Activity Description:**

To provide continued support to eligible Regional Planning Development Councils (RPDCs), the State will provide non-competitive direct grants for Hazard Mitigation Plan updates. This will occur on a rolling basis as the plan expire. There are five RPDCs that operate in the HUD and State MID areas; these RPDCs will be eligible for grants under this program. Additionally, the State may reserve funds under this program to update its State Hazard Mitigation Plan as related to the 12 HUD and State MID counties.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: Hazard Mitigation Plans2

### Activity Title: Hazard Mitigation Plans RPDC 2 Planning

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning3

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Blocked by Sherry Risk

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional Hazard Mitigation Plans

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 500,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 500,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

# of revised zoning codes incorporating resiliency adopted  
% of survey respondents with an increased understanding of flood risks and  
# of Stormwater Management Zoning Ordinances adopted  
# of Hazard Mitigation Plans prepared  
# of floodplain design standards updated  
# of resilience planning recommendations implemented  
# of public education meetings  
# of acres with improved multiple hazard risk mapping  
# of planning studies and initiatives completed  
# of persons at resilience meetings  
# of local laws passed  
# of entities at resilience meetings  
# of ecological actions identified  
# of plans adopted

**Total**

2



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products 2
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

<b>Responsible Organization</b>	<b>Organization Type</b>	<b>Proposed Budget</b>
West Virginia Development Office	State	\$ 500,000.00

**Location Description:**

Regional Plan will serve Mason.

**Activity Description:**

To provide continued support to eligible Regional Planning Development Councils (RPDCs), the State will provide non-competitive direct grants for Hazard Mitigation Plan updates. This will occur on a rolling basis as the plan expire. There are five RPDCs that operate in the HUD and State MID areas; these RPDCs will be eligible for grants under this program. Additionally, the State may reserve funds under this program to update its State Hazard Mitigation Plan as related to the 12 HUD and State MID counties. 50% of the funding will benefit the nonMID counties.

**Environmental Assessment:**

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None



## Grantee Activity Number: HZMTPLNMID-0019

### Activity Title: Hazard Mitigation Plan RPDC 5

**Activity Type:**

MIT - Planning and Capacity Building

**Project Number:**

Planning3

**Projected Start Date:**

01/13/2021

**Project Draw Block by HUD:**

Not Blocked

**Activity Draw Block by HUD:**

Not Blocked

**Block Drawdown By Grantee:**

Not Blocked

**National Objective:**

Not Applicable (for Planning/Administration or Unprogrammed Funds only)

**Benefit Report Type:**

NA

**Activity Status:**

Under Way

**Project Title:**

Regional Hazard Mitigation Plans

**Projected End Date:**

01/13/2033

**Project Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Activity Draw Block Date by HUD:**

01/14/2033 by Steven Edwards

**Total Budget:** \$ 375,000.00

**Most Impacted and Distressed Budget:** \$ 0.00

**Other Funds:** \$ 0.00

**Total Funds:** \$ 375,000.00

**Ancillary Activities**

None

**Projected Accomplishments**

# of revised zoning codes incorporating resiliency adopted  
% of survey respondents with an increased understanding of flood risks and  
# of Stormwater Management Zoning Ordinances adopted  
# of Hazard Mitigation Plans prepared  
# of floodplain design standards updated  
# of resilience planning recommendations implemented  
# of public education meetings  
# of acres with improved multiple hazard risk mapping  
# of planning studies and initiatives completed  
# of persons at resilience meetings  
# of local laws passed  
# of entities at resilience meetings  
# of ecological actions identified  
# of plans adopted

**Total**

2



- # of resilience plans created
- # jurisdictions with enacted resiliency plans/ordinances
- # of climate action plans completed
- # of water management/flood plans completed
- # of water management/flood maps updated
- # of mitigation plans completed
- # of legislative actions taken to improve resiliency
- # of infrastructure design standards updated
- # of energy plans completed
- # of disaster recovery plans completed
- # of communities with standards exceeding NFIP
- # of community engagement meetings/events
- # of Plans or Planning Products
- # of Non-business Organizations benefitting

**Proposed budgets for organizations carrying out Activity:**

Responsible Organization	Organization Type	Proposed Budget
Mid-Ohio Valley Regional Council	Other	\$ 180,000.00
West Virginia Development Office	State	\$ 0.00

**Location Description:**

Region plan serving Roane and Jackson.

**Activity Description:**

To provide continued support to eligible Regional Planning Development Councils (RPDCs), the State will provide non-competitive direct grants for Hazard Mitigation Plan updates. This will occur on a rolling basis as the plan expire. There are five RPDCs that operate in the HUD and State MID areas; these RPDCs will be eligible for grants under this program. Additionally, the State may reserve funds under this program to update its State Hazard Mitigation Plan as related to the 12 HUD and State MID counties. Funding will benefit nonMID counties.

**Environmental Assessment:** EXEMPT

**Environmental Reviews:** None

**Activity Attributes:** None

**Activity Supporting Documents:** None

**Action Plan History**

**Version** **Date**





B-18-DP-54-0001 AP#9	02/28/2023
B-18-DP-54-0001 AP#8	07/18/2022
B-18-DP-54-0001 AP#7	04/12/2022
B-18-DP-54-0001 AP#6	02/24/2022
B-18-DP-54-0001 AP#5	02/23/2022
B-18-DP-54-0001 AP#4	01/28/2022
B-18-DP-54-0001 AP#3	07/30/2021
B-18-DP-54-0001 AP#2	04/23/2021
B-18-DP-54-0001 AP#1	04/22/2021

