Project

IMPROVING CLIMATE DATA AND INFORMATION MANAGEMENT PROJECT



UPSCALING OF 15 COMMUNITY DISASTER RISK MANAGEMENT/CLIMATE CHANGE ADAPTATION PLANS



Document - Project Deliverable D6

Validated Community Disaster Risk Management and Climate Change Adaptation Plan of CEDAR VALLEY, ST. THOMAS Validated Plan, March 31, 2022.



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GLOSSARY OF TERMS

This glossary of terms has been extracted and adapted from (i) The International Strategy for Disaster Reduction; Terminology: Basic Terms of Disaster Risk Reduction (2009), (ii) UNDRR Report of the open-ended intergovernmental expert working group on indicators and terminology relating to disaster risk reduction (2016) and (iii) ODPEM.

All Clear: An All Clear is a statement issued by the pertinent authority when a threat has passed. In the case of a hurricane/earthquake, is when the storm/earthquake has passed and the associated strong impacts from winds and rains/earthquake will no longer affect the country/community.

Adaptation: The adjustment in natural or human systems in response to actual or expected climatic stimuli or their effects, which moderates harm or exploit beneficial opportunities. This definition addresses the concerns of climate change and is sourced from the secretariat of the United Nations Framework Convention on Climate Change (UNFCCC). The broader concept of adaptation also applies to non-climatic factors such as soil erosion or surface subsidence. Adaptation can occur autonomously, for example through market changes, or as a result of intentional adaptation policies and plans. Many disaster risk reduction measures can directly contribute to better adaptation.

After-Shock: Tremors or smaller earthquakes that occur after the main shock is felt. After-shocks can occur over a few hours to months after the main shock.

Capacity: The combination of all the strengths, attributes and resources available within a community, society or organization to manage and reduce the risks and strengthen resilience. Capacity may include infrastructure and physical means, institutions, societal coping abilities, as well as human knowledge, skills and collective attributes such as social relationships, leadership and management.

Capacity Building: Efforts aimed to develop human skills or societal infrastructures within a community or organization needed to reduce the level of risk.

Climate Change: The Inter-Governmental Panel on Climate Change (IPCC) defines climate change as "a change in the state of the climate that can be identified (e.g., by using statistical tests) by changes in the mean and/or the variability of its properties, and that persists for an extended period, typically decades or longer. Climate change may be due to natural internal processes, external forcing, or persistent anthropogenic changes in the composition of the atmosphere or land use".





Coping Capacity: The ability of people, organizations and systems, using available skills and resources, to face and manage adverse conditions, emergencies or disasters.

Disaster: A serious disruption of the functioning of a community or a society involving widespread human, material, economic or environmental losses and impacts, which exceeds the ability of the affected community or society to cope using its resources.

Disaster Risk Management: Disaster risk management is the application of disaster risk reduction policies, processes and actions to prevent new risk, reduce existing disaster risk and manage residual risk contributing to the strengthening of resilience.

Early Warning System: An interrelated set of hazard warning, risk assessment, communication and preparedness activities that enable individuals, communities, businesses and others to take timely action to reduce their risks.

Earthquake: A shaking or rolling motion of the earth's surface caused by a sudden release of energy from below the earth's surface. The release of energy is generally caused by slipping or breakage of rock below the earth's surface.

Emergency Services: The set of specialized agencies that have specific responsibilities and objectives in serving and protecting people and property in emergencies.

Emergency Operations Centre: A multi-agency coordination centre that provides support and coordination to the on-scene responders.

Epicentre: The position on the ground directly above where the slip under the earth's surface first occurs. The magnitude felt is likely to be greatest at this point. The damage is likely to be worst at this point.

Hazard: A dangerous phenomenon, substance, human activity or condition that may cause loss of life, injury or other health impacts, property damage, loss of livelihoods and services, social and economic disruption, or environmental damage.

Hazard Analysis: Identification, studies and monitoring of any hazard to determine its potential, origin, characteristics and behaviour.

Hurricane: A hurricane is a large tropical storm with winds of 74 mph or greater, moving counterclockwise. In addition to intense winds, hurricanes are accompanied by heavy rains, flooding along the coast, flooding inland and tornadoes. The Saffir-Simpson Hurricane Scale is a one to five ratings based on





the hurricane's present intensity. This is used to give an estimate of the potential property damage and flooding expected along the coast from a hurricane landfall. Wind speed is the determining factor of this scale.

Earthquake Magnitude: It is a measure of the amount of energy released during an earthquake. This is typically measured on the Richter scale for the Caribbean.

Mitigation: The lessening or limitation of the adverse impacts of hazards and related disasters.

Peak Ground Acceleration: is the maximum acceleration recorded, i.e. the peak value in the acceleration record (accelerogram). It is one of the most used parameters to represent the seismic hazard.

Preparedness: The knowledge and capacities developed by governments, professional response and recovery organizations, communities and individuals to effectively anticipate, respond to, and recover from, the impacts of likely, imminent or current hazard events or conditions.

Prevention: Activities and measures to avoid existing and new disaster risks.

Recovery: The restoration, and improvement where appropriate, of facilities, livelihoods and living conditions of disaster-affected communities, including efforts to reduce disaster risk factors.

Relief/Response: The provision of emergency services and public assistance during or immediately after a disaster to save lives, reduce health impacts, ensure public safety and meet the basic subsistence needs of the people affected.

Resilience: The ability of a system, community or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions.

Retrofitting: Reinforcement or upgrading of existing structures to become more resistant and resilient to the damaging effects of hazards.

Risk: The combination of the probability of a hazardous event and its negative consequences, which result from interaction(s) between natural or anthropogenic hazard(s), vulnerability and exposure.





Structural/Non-Structural Measures: Structural measures: Any physical construction to reduce or avoid possible impacts of hazards, or application of engineering techniques to achieve hazard resistance and resilience in structures or systems. Non-structural measures: Any measure not involving physical construction that uses knowledge, practice or agreement to reduce risks and impacts, in particular through policies and laws, public awareness-raising, training and education.

Tremor: The shaking or seismic waves felt or caused by an earthquake or explosion.

Tropical Disturbance: A tropical disturbance is a cluster of thunderstorms poorly organized.

Tropical Depression: A tropical depression is a cluster of storms organized around a central circulation with surface wind speeds of 38 mph or less.

Tropical Storm: A tropical storm is a cluster of smaller storms with substantial circular rotation and sustained surface winds of 39-73 mph.

Tropical Storm Warning: warning issued when tropical storm conditions, including winds from 39 to 73 mph, are expected in a specified coastal area within 36 hours or less.

Tropical Storm Watch: issued when tropical storm conditions, including winds from 39 to 73 mph, pose a possible threat to a specified coastal area within 36 to 48 hours.

Vulnerability: The conditions determined by physical, social, economic and environmental factors or processes, which increase the susceptibility of a community to the impact of hazards.

Zone: Disaster Risk Management Area/Zone specifically defined area at a local scale in which Disaster Risk Management issues are discussed, planned for and executed. This zone may be one or more communities, depending on the demographics of the community, nature of hazards, established governance structures, and the socio-political environment, as defined by the respective parish.

Zonal Committee: Organized community group within a zone that has accepted the responsibilities for leading the charge of disaster management issues of the zone, has a wide cross representation of the zone and has elected officers to serve as the executive of the committee under the guidance of the Parish Disaster Committee through the Parish Coordinator-Disaster Preparedness.





ABBREVIATIONS

ADRA	Adventist Development and Relief Agency
AAR	After Action Report
СВО	Community Based Organizations
CCA	Climate change adaptation
CDRM	Community Disaster Risk Management
CERT	Community Emergency Response Team (also referred to in this document as DRM Team)
DRM	Disaster Risk Management
EOC	Emergency Operations Centre
GOJ	Government of Jamaica
ICDIMP	Improving Climate Data and Information Management Project
JAS	Jamaica Agricultural Society
MLSS	Ministry of Labour and Social Security
MoHW	Ministry of Health and Wellness
NDC	National Disaster Council
NDRMC	National Disaster Risk Management Council
NEOC	National Emergency Operations Centre
NEPA	National Environment and Planning Agency
NGO	Non-Governmental Organization
NWA	National Works Agency
NWC	National Water Commission





ODPEM	Office of Disaster Preparedness and Emergency Management
PDC	Parish Disaster Coordinator/Committee

- PEOC Parish Emergency Operations Centre
- PIOJ Planning Institute of Jamaica
- PPCR Pilot Programme for Climate Resilience
- RADA Rural Agriculture Development Authority
- SDC Social Development Commission
- SOP Standard Operating Procedure





PREAMBLE

Name of the Plan

The name of the plan is the "Cedar Valley Disaster Risk Management and Climate Change Adaptation Plan".

Background

The Government of Jamaica (GOJ), through the Planning Institute of Jamaica (PIOJ), has executed the Improving Climate Data and Information Management Project (ICDIMP) under the Pilot Programme for Climate Resilience (PPCR). In this framework, PIOJ in collaboration with key partners such as the Office for Disaster Preparedness and Emergency Management (ODPEM) seeks to update existing Community Disaster Risks Management (CDRM) Plans to include risk profiles and community level resilience mitigation and climate change adaptation (CCA) initiatives that can be implemented by the communities.

Purpose of the Plan

This plan provides:

- 1. The residents with a workable, comprehensive system to plan for and respond to emergencies and disasters to minimize loss of life and property.
- 2. A basic outline of shelters, welfare and relief system as well as some focus on evacuation planning that will make preparation, response and recovery from a disaster more effective.
- 3. Provide an emergency contact list and identification of vulnerable populations living in Cedar Valley
- 4. A basic guideline for the community as to who is responsible for what, and who is in charge of critical functions in managing an emergency.
- 5. An overall framework for reducing risks in the community including mitigation, preparedness, response, recovery and adaptation.





Actors (and contact list)

Table 1. DRM actors and contact details

LEVEL	ACTOR	CONTACT PERSON	TELEPHONE Nº/EMAIL
	Disaster Risk Management Group (DRMG)	Mr Paul Bailey	876 (503-9672) 876 (805-8962)
	CERT (Community Emergency and Response Team)	Donna Samuels-Crossdale	876-596-5285
	St Thomas Municipal Corporation	Mrs Martina Medley – Parish Disaster Coordinator	876 (487-2656) stthomasdm@gmail.com
	St. Thomas Parish Disaster Committee	Mrs Martina Medley – Parish Disaster Coordinator	876 (487-2656) stthomasdm@gmail.com
Community and Parish	Ministry of Labour and Social Security	Mrs. Lorian Peart-Roberts – Parish Manager	876 (922-9500)
	Social Development Commission	Mr. Horace Thomas – Deputy Superintendent	876-549-8809 peartlorian@yahoo.com
	Jamaica Fire Brigade	Ms. Allison Byfield - Superintendent	876 (564-6789) <u>dhstthomas.jfb@cwjamaica.com</u> 8765641622
	Jamaica Constabulary Force	Dr. Doyen Smith – Medical Officer of Health	876 (836-5878) <u>stthomasdivhq@jcf.gov.jm</u>
	мон	Miss Sophia Mitchell – Regional Coordinator, East	876 (317-8985)/ 876 (405-4316) doyensmith@gmail.com
National	Office of Disaster Preparedness and Emergency Management (ODPEM)	Mrs. Lorian Peart-Roberts – Parish Manager	876-430-5585 odpemeast@gmail.com /smitchel@odpem.org.jm





Scope of Plan

The Plan will cover pre and post-impact aspects of disaster risk management, that is, prevention, mitigation, preparedness and response. The Plan will also cover long-term climate change adaptation strategies that will be important for the community to prepare for future variations in climatic conditions. The plan focuses on climate and non-climate natural hazards identified by the community including earthquakes, landslides, hurricanes, flooding and droughts.

Authority

This plan is the Community Disaster Risk Management (DRM) and Climate Change Adaptation (CCA) Plan for the community of Cedar Valley. It is one of several CDRM and CCA Plans that support the formation of the Zonal Disaster Risk Management and Climate Change Adaptation Committees/Plans for St. Thomas.

Under the DRM Act (Section 20), 'each local authority for a parish shall be responsible for the functions of managing and giving effect to the prevention of, mitigation of, preparation for, response to and recovery from disasters.' According to section 23(1) of the DRM Act, each Parish Disaster Committee (PDC) in consultation with the Director General shall establish for each parish such number of Zonal Disaster Committees as it considers fit to address zones of particular vulnerability within the parish' (The DRM Act Section 23c). In effect, the PDC gives guidance and support to the Zonal Disaster Committees and ensures that disaster management and disaster operations are aligned to and consistent with those of the PDC.

The Zonal Disaster Management Framework allows for the division of parishes into more manageable disaster management areas known as Disaster Management Zones or Emergency Management Zone. These management zones permit a more effective distribution of support through advice/guidance, sourcing and provision of resources for risk reduction matters and execution of mitigation activities before, during and after emergency activities.

Each Zonal Disaster Committee is obligated to carry out certain duties within its zone. The functions of a Zonal Disaster Committee shall include the duty to:

- a) Provide public education within the applicable zones regarding disaster preparedness and emergency response.
- b) Liaise with the relevant PDC on matters relating to disaster preparedness and emergency response.
- c) Nominate persons to be trained as shelter managers.
- d) Prepare a zonal disaster plan to be incorporated into the Parish Disaster Risk Management Plan' (Section 23c Disaster Risk Management (DRM) Act).





Local emergency/disaster response planning will trickle down from the Zonal Disaster Committees to the Community Disaster Risk Management (CDRM) Groups and Community Emergency Response Teams (CERTs). See diagram 1 for a visual of the structure from PDC to CERT.



Diagram showing the relationship between the Parish. Zones and CDRMG.





Responsibility

The responsibility for updating and testing the plan lies with the Cedar Valley CDRM Group which will review and test elements of the plan at least once per year and after every major event. The Plan should be updated every 5 years to reflect changes in the dynamics of the community and the implications for disaster management.

Assumptions

- 1. There will always be a CBO in place that will continue to assume the leadership role for disaster risk management in the community.
- 2. In a disaster, utility services may be unavailable for extended periods (i.e., electricity, water, and telephone).
- 3. Police and fire response services will be overrun within the first 3-5 days after a major disaster; do not expect help from them initially.
- 4. The community will largely be on its own in the initial days following a disaster.
- 5. There will be serious problems with transportation. Road closures will occur and access to outside help will not be possible.
- 6. The community and the parish disaster committee will work together to identify and source resources to continue the development and maintenance of the plan.

Relationship to Parish and National Plans/Structure

The Cedar Valley Disaster Risk Management and Climate Change Adaptation Plan represents the operational procedures and strategies to be employed at the community level in response to and preparing for a number of hazards. The community will be supported by and will work through the St. Thomas Parish Disaster Committee, and will be closely integrated with the Parish Emergency Operations Centre (PEOC). Therefore, the CDRM Plan will be incorporated into the parish DRM plan as required under section 23(2) (d) of the DRM Act. It will draw on this plan and national plans where necessary for the mounting of an efficient response and preparedness programme. The ODPEM collaborates with the St. Thomas Municipal Corporation on Disaster Risk Management matters through the Parish Disaster Coordinator.





Leadership of the CDRM Group

The leadership of the group will be the same as that of the existing CBO (this includes the already assigned individuals). Where no existing group (CBO), the persons engaged by the facilitation team who have shown interest should be encouraged to assume responsibilities. The leadership, specifically President and Vice President should maintain regular dialogue with the Parish Disaster Coordinator for guidance and support.

Frequency of CDRM Meetings

- » The group should meet officially on an average bi-monthly (every 2 months).
- » However, for existing groups, they should include DRM as an agenda item at the regular CBO (E.g. Citizens Association).
- » Special meetings, briefings and workshops may be convened by the implementer as necessary, inviting stakeholders as appropriate.





1 COMMUNITY PROFILE

1.1 Description of the community

Cedar Valley is a rural community in St Thomas located some 18 miles from the capital of Morant Bay. The community is the main access route to Blue Mountain and is located 15 miles from Blue Mountain Peak. Based on the SDC profile, Cedar Valley is mountainous and is drained by one main river – The Man of War River. The SDC profile of the community identifies deforestation as a major issue for the community. This results from poor farming practices in the coffee industry, which leads to damage to the culverts and drains that drain the community.

The population of the community is approximately 1300 persons with 54% male and 46% female. The vulnerable group comprising the elderly and children is 33% of the population. Around 77% of the community members earn a living mainly from agriculture with the majority being male. Tradesmen, professionals and services workers make up the remaining 23%

Water supply is mainly from public sources with 71% piped into dwellings, 8% piped into the yard and 7% by standpipe. Private sources included rivers or streams with 15% of households receiving water from that source. Electricity is widely available and is the source of lighting for 88% of the community while 9% of the community uses kerosene. An estimated 70% of households dispose of garbage by burning while 20% dispose of garbage by a public collection.

Houses in the community are mainly constructed of concrete and blocks (72%) while wood and concrete account for 15%. There are diverse social amenities in the community. There are four schools – two basic schools, one primary school and one primary and junior high school. There is a type I health centre. There are about five churches one community centre and two playfields.

The Forestry Department conducted the 2020/2021 socio-economic survey to determine the relationship of communities with forest reserves, forest management areas and crown lands. Sections of Cluster 5 are parallel to the Western Yallahs Watershed Management units. The area encompasses eleven demarcations of forest reserves, forest management areas and crown lands as well as traits of public land including areas managed by the National Water Commission (Social and Economic Survey for Cluster 5, 2021). The cluster supports significant livelihood features predominantly farming, but eco-tourism and recreational options also abound. The buffer communities depend on the forest resources for their livelihood, but improper farming practices have resulted in challenges such as bush fires, soil erosion, soil nutrient depletion, deforestation, and landslides.





The Forestry Department recognizes these issues and currently employs contractors from the buffer communities to carry out forestry projects and programmes to establish and maintain plantations such as land clearing, weeding and maintenance, road and trail maintenance, fire line creation and planting seedlings. 5.5 hectares of the Chesterfield forest reserve were maintained and planted with 3000 timber seedlings providing income for the buffer communities of Cedar Valley and Hagley Gap as well as reducing the effects of deforestation on the environment caused by the over-dependence of farmers or the community on the Forest Reserve

1.1.1 Summary of main hazards

The two main hazards that affect Cedar Valley are flooding due to the presence of several rivers and landslides which occur because of the geological characteristics of the community.

1.2 Location and districts of community in this Plan

The community of Cedar Valley comprises five small districts which are covered under this plan. These include:

Table 2. Districts and Coordinators Contact List

#	DISTRICT	TEAM LEADER	CONTACT #	E-MAIL
1	Bethel.	Paul Bailey.	876 (503-9672)	_
1.	Dethei.	Faul balley.	876 (805-8962)	-
2.	Woebourn Lawn.	Michael Garnett.	876 (853-7522)	-
		Aldith Burton.	876 (396-3625)	Stephen.bently@gmail.com
3.	Monk Land.	Rupert Richards.	876 (860-1489)	burtonaldith@gmail.com
		Stephen Bently.	876 (367-8265)/ 876(559-3581)	
Λ	Cedar Valley Proper.	Donna Samuels-Crossdale.	876 (594-5285)	D samcrosdale@yahoo.com
4.	Cedar Valley Grove.		870 (394-3283)	D_samerosdale@yanoo.com
5.	Mango Row.	Marvin Bailey.	876 (409-8199)	Stachinecoley6@gmail.com
J.		Stachine Coley.	876 (554-9543)	<u>Stachinecoleyo@gillall.com</u>





1.2.1 Location map







2 DISASTER RISK MANAGEMENT (DRM) ORGANIZATIONAL STRUCTURE

2.1 National institutions

The institution at the national level that coordinates disaster risk management is the Office of Disaster Preparedness and Emergency Management (ODPEM). The ODPEM is also the secretariat to the National Disaster Risk Management Council (NDRMC), which is chaired by the Prime Minister of Jamaica. The deputy chairperson for the NDRMC is the Minister for the Ministry of Local Government and Rural Development, the Ministry under which disaster management falls. The NDRMC leads the planning and coordination of disaster management. Seven committees work to support the National Disaster Risk Management Council (NDRMC) – Finance, Planning and Administration, Recovery Planning, Preparedness and Emergency Operations, Emergency Health and Planning, Public Information and Education, Humanitarian and Prevention and Mitigation.

2.2 Parish and Community organizations

At the parish level, the St. Thomas Municipal Corporation is responsible for coordinating disaster management including working with communities to develop their capacities and their plans. This coordination is done through a Parish Disaster Committee, which is chaired by the Mayor (or his designate). This committee comprises several agencies and communities at the parish level. The Parish Disaster Coordinator, the person appointed by each local authority to carry out day-to-day execution of the disaster risk management functions, acts as the advisor to the Parish Disaster Committee.

The Parish Disaster Committee is linked to the national level through the ODPEM and all decisions taken by the PDC are aligned with the national level policies and plans.

Communities are also part of the disaster management organization for the parish and are represented at the parish level through zonal committees (also known as Community Disaster Risk Management Groups). This committee comprises community members and the community can invite external organizations to participate in their risk reduction activities.





Table 3. DRM Group composition

DRM GROUP POSITION	CONTACT PERSON	TELEPHONE Nº/EMAIL
Chair.	Paul Bailey.	876 (503-9672).
	raul balley.	876 (805-8962).
Vice Chair.	Donna Samuels-Crossdale.	876 (441-5411) / 876 (502-8247) 876-425-9206.
Socratary	Stephen Bentley and Stachnie Coley.	876 (367-8265) 876-554-9543.
Secretary.	Stephen to assist.	870 (307-8203) 870-334-9343.
Treasurer.	Aldith Burton.	876 (777-0075)/ 876 (860-1489).
Assistant Secretary.	Stachine Coley.	876 (554-9543).
Coordinator – Public Education & Fundraising.	Rose Thomas.	876 (449-2028).
Coordinator – Vulnerability & Risk Identification.	Rennie Richards.	876 (358-3651).
Coordinator – Prevention, Mitigation & Adaptation.	Leota Taffe.	876 (520-3413).
Coordinator - Response & Recovery.	Hazel Taffe.	876 (842-8127).
Coordinator – Preparedness.	Marvin Bailey.	876-(449-2028) 876-409-8199.

CDRM Group will train and establish Community Emergency Response Team(s) (CERTs) that is the operative team under the Response & Recovery Coordinator. At a minimum, CERT includes the following positions:

- First Aid coordinator and assistants.
- Initial damage assessment coordinator and assistants.
- Shelter management coordinator and assistants.
- Search and rescue coordinator and assistants.
- Communication (during the crisis) coordinator and assistants.
- Evacuation coordinator and assistants.

The community should have persons trained in these topics.





2.3 Gaps and challenges

» Disaster agencies need more resources to adequately assist the community.





3 DISASTER HISTORY

3.1 History of disasters and coping mechanisms

The disaster analysis provides a detailed chronological timeline account of the disaster history and significant events that happened in the community, the impact as well as the response strategy and/or mechanism of the community.

Table 4. Historical Overview of Disasters

DISASTER YEAR	IMPACT	HOW DID THE COMMUNITY RESPOND?
Drought Jan. – Jul. 2021. No water in the area for farms and some homes.		Community members purchased water.
Heavy Rainfall —Sep., Oct. and Nov. 2020.	There was tremendous Flooding. The roads from Cedar Valley to Morant Bay were impassable. Landslide in Mango Roe caused the road to break away. Currently, the Mango Roe road that links Mango Roe and Ferrill is still impassable for heavy vehicles and so only bikes can pass through these areas. A new temporary road had to be built as the road from Bethel to Ness Castle has been damaged. The possibility exists that any future heavy rainfall is likely to result in the community being marooned.	People stayed inside and tried to fix houses. Citizens tried to clean the roadway.
Chikungunya Outbreak, 2014.	Chick V impacted the community badly in 2014 with some persons being hospitalised.	For the most part, people treated themselves with home remedies but where that was insufficient and people went to the hospital.





DISASTER YEAR	IMPACT	HOW DID THE COMMUNITY RESPOND?
Hurricane Sandy, 2012.	 All storms lead to some amount of flooding in areas near the river as well as, landslides because the community is located on a hill. An example of this is at New Monkland road a house fell into the river after the river overflowed its banks and eroded the house foundation. Many other houses in New Monkland were destroyed. The river needs training. In Richard Vale when it rains the river becomes uncontrollable and changes its normal course, which results in crops, animals, and homes being destroyed. Bethel to Richmond road broke away into the gully and the community became marooned so citizens were unable to visit Kingston or Morant Bay. Telephone service was impacted. Rocks and boulders fell and blocked Ferril road near the Public Works Office. Hurricanes also result in a lack of piped water in the area, so people have to get water from rivers. 	Residents who are marooned stay inside until the waters subside. Agencies have to provide food for those who cannot get out to access food and water. Residents get together and try to clear roads that they can manage.
Tropical Storm, Tomas, 2010.	Flooding and landslides in the same areas mentioned above. However, no houses were destroyed.	Stayed inside until the water subsided.
Tropical Storm Gustav, 2008.	Same as above.	Stayed inside until the water subsided.
Hurricane Dean, 2007.	Same as above, however, there was more flooding than with Gustav. Grove road surface was destroyed and the Mayhall coffee factory was inundated.	Stayed inside until the water subsided.





DISASTER YEAR	IMPACT	HOW DID THE COMMUNITY RESPOND?	
Hurricane Dennis, 2005.	-	Stayed inside until the water subsided.	
		*This is the response to all floodings & hurricanes.	
Hurricane Emily, 2005.	Can't recall exactly what took place but know there was some	Stayed inside until the water subsided.	
	amount of flooding and landslides.		
		Stayed inside. Some members of the community who	
Hurricane Ivan, 2004.	Major road breakaways and landslides in all districts.	were better off walked around distributing food to	
		other community members.	
	 » Flooding occurred during the passage of these two 		
Tropical Storm Isidore and Lili,	tropical storms.		
2002.	» The sewer main was blocked as a result of flooding in	-	
2002.	Cedar Valley.		
	» Roads were blocked due to landslides in the area.		
Fire, January 2002.	» Fire destroyed house. – This was an electrical fire	People relocated.	
Surface Trough and Showers,	» The main road from Richmond Vale to Cedar Valley in St.		
1998.	Thomas was also impassable due to an overflow of water	Alternate route 2B was established.	
1998.	from blocked drains in the vicinity of Richmond Vale.		
	» The impact was similar to all other storms mentioned	Residents fend for themselves for weeks as everyone in	
Hurricane Gilbert,1988-(Worst	above however it was worst.	the nation was impacted.	
	» Houses were destroyed.	Rivers were used for water for a long time.	
they have experienced).	» There was no electricity for weeks.	Farms provided food for the community until	
	» 2 Basic schools flooded, one was never rebuilt.	roadblocks were cleared and they were able to go out.	
Hurricane Allen,1980.	The community was impacted but the detail cannot be	No data.	
	recalled.		
Hurricane Charlie, 1951.	Flying debris and falling trees brought about most of the	No data.	
	injuries in the community.		
Tropical Storm, 1909.	The Tropical Storm caused heavy rainfall.	No data.	





3.2 Lessons learnt

The community identified several key lessons learned from the occurrence of the events highlighted above. These were:

- » When it rains In Richmond Vale the river becomes uncontrollable and changes its normal course which results in crops, animals, and homes being destroyed. The river needs to be dredged.
- » The river in New Monkland needs training immediately.
- » Bethel to Richmond road needs reinforcement and continuous maintenance as when it breaks away or is blocked, the entire community becomes marooned and is unable to visit Kingston or Morant Bay.
- » The area has problems with landslides once it rains heavily, Bush fires also contribute to landslide
- » The community suffers from drought which can be fixed easily with an irrigation system that carries water from the river to the affected districts and farms.





4 COMMUNITY ASSETS

A community asset (or community resource) is anything that can be used to improve the quality of community life. The five asset categories include:

- » NATURAL: Farming land, community springs, rivers, forests, ocean, etc.
- » PHYSICAL: Infrastructure such as bridge into town, schools, clinics and equipment (tools, machines) for transport, local water management/distribution system, telephone lines, mobile phone towers.
- » FINANCIAL, HUMAN AND SOCIAL: liquid assets such as livestock, professional capacities and knowledge (nurses, police, etc.).

The most important community assets/resources from each category were identified and highlighted in Table 5 below. The priority assets were selected based on their importance to lives and livelihoods in the community.

Table 5. Community Assets

ASSET CATEGORY	ASSETS		
	Rivers and Springs - Man of War River, "Man a wah river", Vewington River, lots of springs and tributaries that		
	persons get water from to feed animals and for domestic uses.		
Natural.	Arable lands.		
	Trees – deforestation-forest areas left but a lot less than before.		
	Sand and stones-Supply the majority of Jamaica with sand and stone.		
	Four churches-Approximately 10 churches.		
	Four educational institutions: Ness Castle Basic, Woburn Lawn Primary (formerly All-Age), Cedar Valley Primary and		
	Junior High and Cedar Valley Basic Schools, Richmond Gap Primary, Bethel Basic.		
	Court house-not functional due to the deplorable road condition.		
Physical.	Police station.		
	Post-office-not functional.		
	Health centre.		
	One community centre.		
	One playfield.		





ASSET CATEGORY	ASSETS		
Financial, human and social.	Agriculture: Blue Mountains coffee, wild fruits such as mangoes, apples, spring water, cash crops, animals, poultry.		
	CBOs: 4 parents and Teachers Associations, two youth clubs, farmer organizations, Red Cross, citizen's association,		
	Richmond Gap Benevolent Society, all communities have a farmer organization and all districts have a citizen's		
	association group.		





5 COMMUNITY HAZARD MAP

The Community Hazard Maps were prepared with the involvement of the community during the Community Disaster Risk Management Plan workshop. The hazard maps identify the zones where hazards occur and the assets (houses, roads, shops, schools, shelters etc.) that are located in these zones. The community identified locations where they have historically experienced hazards and drew them on the map. The hand-drawn map can be found in the photo gallery (Appendix K).







Cedar Valley Community Hazard Map (SDC Boundary) Digitized from Community Input







Cedar Valley Community Hazard Map (main Settlement) Digitized from Community input.





6 IDENTIFICATION OF CLIMATE AND NON-CLIMATE HAZARDS AND IMPACTED ASSETS

Table 6 identifies (i) climate and non-climate related hazards that the community experiences, and (ii) climate hazards expected to continue to experience into the future considering climate change scenarios. Climate change projected scenarios have been extracted from (CSGM), 2017: State of the Jamaican Climate 2015¹, scenario RCP 8.5, year 2050.

Table 6. Climate and non-climate hazards and their Impacts

HAZARD CATEGORY	HAZARD	PROJECTED SCENARIO WITH CLIMATE CHANGE	FREQUENCY	INTENSITY	ASSETS IMPACTED (FROM LIST)
	Flooding-Greenfield.	N/A	3 times per year.	2-4 ft.	Farmlands, JPS poles, roads, buildings.
CLIMATE HAZARD – PRESENT.	Hurricanes.	N/A	As often as Jamaica gets a hurricane.	Strong winds based on the category of the hurricane.	Homes, farmlands, livestock, building, roads, JPS poles, NWC, pipes lines wash away, forestry, schools, churches, police station, clinic, post office (now closed since 2017). The community is usually without water for 2-3 months after a hurricane.
	Landslide.	N/A	Once it rains.	-	Same as a hurricane.

¹ Climate Studies Group, Mona (CSGM), 2017: State of the Jamaican Climate 2015: Information for Resilience Building (Summary for Policy Makers). Produced for the Planning Institute of Jamaica (PIOJ), 16 Oxford Road, Kingston 5 Jamaica.




HAZARD CATEGORY	HAZARD	PROJECTED SCENARIO WITH CLIMATE CHANGE	FREQUENCY	INTENSITY	ASSETS IMPACTED (FROM LIST)
	Drought.	N/A	Mostly during Summer and March- April.	-	Farmlands, livestock, schools, churches and homes.
	Flooding.	N/A	N/A	N/A	-
CLIMATE HAZARD – FUTURE CC SCENARIO.	Hurricanes.	Tropical storm/ hurricane what has been experience but intensities (rainfall rat This is consistent with an storms in the future unde storms but when they do	-		
	Landslide.	N/A	N/A	N/A	-
NON-CLIMATE	Fire.	N/A	Mostly during Summer and March- April.	N/A	Farms, livestock, farm roads.
HAZARD.	Earthquakes – tremors.	N/A	N/A	N/A	-





7 IDENTIFICATION OF COMMUNITY VULNERABILITY

Vulnerability is the condition or circumstance of the community which makes it susceptible to being damaged by a hazard or disaster. The vulnerability analysis identifies the hazards that the community is exposed to, the sensitivity of the different assets within the community to the hazards and the direct and indirect impacts that are anticipated.

Table 7. Community's Vulnerability

HAZARD CATEGORY	HAZARD	VULNERABLE ASSET	DRIVERS OF VULNERABILITY	DIRECT IMPACTS	INDIRECT IMPACTS
CLIMATE HAZARD - PRESENT	Flooding.	Roads, homes, farms, utility posts, schools. Homes in Trinityville. Cedar Valley Police Station (flooded in 20005 after Hurricane Dennis).	 The river needs training. Deforestation leads to flooding. 	All citizens – Homes, livelihood. Infrastructure – roads.	Taxi men, vendors and delivery persons were indirectly impacted. Teachers who live outside the community could not access the community to teach, nor did farmers leave to go to sell or buy produce.
	Hurricanes.	The roads from Cedar Valley to Morant Bay. Crops, animals, homes.	The community is located on a hill so everything on top without a proper foundation is easily blown away.	Farmers, homeowners. Road users.	-





HAZARD CATEGORY	HAZARD	VULNERABLE ASSET	DRIVERS OF VULNERABILITY	DIRECT IMPACTS	INDIRECT IMPACTS
	Landslide.	Roads, homes, farms, utility posts, and schools are blocked off from the rest of the community.	 » Direct impact from rain. » Soil type. » River loosens the soil. » Underground springs. » Poor farming practices. 	All citizens.	Same as flooding.
NON-CLIMATE	Earthquakes – tremors.	-	-	-	-
HAZARD.	Fire.	Farms and animals.	Poor farming practices, slash and burn.	Farmers lose their livelihoods.	Less food for the community.





8 COMMUNITY CAPACITY ANALYSIS

In order for the community to implement its Disaster Risk Management and Climate Change Adaptation Plan, the community's capacities to cope with and manage disasters were assessed and a listing of these is provided below.

Table 8. Community Capacity

CAPACITY	TYPE OF RESOURCE	TASK
Skills.	 » Chainsaw operators. » Counsellors, pastors. » Tradesmen, plumbers, farmers, teachers, mason, carpenters. 	Assist in the clearing of roads, provide counselling, psychological support, providing food, tradesmen assist in prevention and mitigation.
Knowledge.	 Hazard history of the community. Coping mechanisms. Knowledge and awareness of the community's vulnerabilities and risk reduction measures. Early warning systems. Evacuation procedures. Elements of disaster preparedness and response. Trained persons, first aid, initial damage assessment, and shelter management. 	Contribute to the development of the community, education and awareness of others and identification of hazard-prone areas.
Networks.	CBOs.	Provide human resources who will assist in moving the elderly to emergency shelters, and shelter management.
Transportation	Taxi operators, truck operators, and owners of private motorvehicles.	Assist with general transportation of persons from one point to another.
Building/Infrastructures	Schools, churches.	These served as an emergency shelter.
Means of Care/Medical Care	Registered nurse, community health aid, nurse.	Provide first aid service and general health care.
Commercial Enterprises	Grocery Shops.	Provide easy access to food during an emergency.





9 DISASTER RISK REDUCTION

Risk reduction measures have been identified according to the information presented in previous sections. This section presents (i) prevention/mitigation and preparedness measures.

Risk reduction measures will take into account official recommendations from Jamaican authorities on prevention of Covid-19 and other diseases, especially during evacuation.

9.1 Prevention and Mitigation

In order to ensure that future developments in the community are not exposed to the same hazards as in the past, implementation of a mitigation plan is deemed essential to facilitate sustainable development as well as create an enabling environment for reducing disaster risks. The elements of the community's overall mitigation plan are set out below.

9.1.1 Areas which should not be developed

The following areas in Table 9 below were identified by the community as being unsuitable for future development in relation to the hazards and vulnerable elements identified.

Table 9. Areas for No Development

AREA	REASON FOR NO DEVELOPMENT
All flood plains (riverbeds) and springs.	The river and springs will eventually take back their course.





9.1.2 Zoning

The following areas in Table 10 below were identified by the community as being suitable for specific types of development considering hazard and vulnerability elements identified.

Table 10. Suitable Areas for Development

AREA	TYPE OF DEVELOPMENT WHICH WOULD BE SAFE
Cedar Valley at the community centre to be used as a skill training facility	
building is already there and would improve the young as they become	The area needs computers, equipment, machines, stoves, and utensils.
certified in various skills.	
Spring in Monkland to Greenfield.	Can be developed by placing a bottling water plant at this location.
	The post office needs to be reopened and refurbished. Community
The area by the Cedar Valley Post Office was closed in 2017.	members suffer greatly as roads are often blocked due to landslides and
	are unable to traverse to and from Morant Bay at the nearest Post Office.
The groups in the visinity of Coder Velley, Health Control	The health centre can be reopened. The building is in excellent condition
The areas in the vicinity of Cedar Valley-Health Centre.	but has not opened due to a lack of staff.

9.1.3 Areas which can be developed with Appropriate Mitigation Activities

Table 11. Special Areas for Development

AREA	MITIGATION MEASURES NEEDED
Albion Mountain to Content	It is already a farming area however it needs water. An irrigation system can be put in place-they can get water from Aruntally Hill as water leaves there by gravity but piping and a dam are needed there. Prevent farmers from starting fires.





9.1.4 Reducing Community Vulnerability through Disaster Risk Mitigation and Adaptation

The vulnerabilities identified above can be addressed and the impacts of the hazards reduced if the appropriate actions are employed. Disaster Risk Mitigation strategies can be employed to reduce the community's vulnerability to current hazards and adaptation measures employed to plan long term strategies for adjusting to the expected climate change impacts. Several resources will however be required to make these strategies possible and sustainable.

Table 12. Community Action Plan for Disaster Risk Mitigation and Climate Change Adaptation

HAZARDS IDENTIFIED	COMMUNITY RESPONSES	ARE THESE RESPONSES SUITABLE?	ADAPTATION/MITIGATION ACTIONS REQUIRED – EXTERNAL ASSISTANCE	ADAPTATION/MITIGATION ACTIVITIES - DONE WITHOUT EXTERNAL ASSISTANCE	SPECIFIC LOCATION
Flooding.	 » Stay inside. » Some people go to the shelter. 	To some extent.	 Cleaning of culverts and drains. Dredge river Gabion Baskets are needed at the river. 	No.	From Grove to Morant Point.
Hurricane.	Go to shelters Safeguard home facilities.	Sometimes.	 Need storage place in the community for emergency supplies and food when persons are marooned. The emergency communication system as cell phones does not work in these emergencies. 	Refrain from digging the hillsides for homes or farming.	Albion Mountain, Richmond Gap, Mount Vernon Gap.





HAZARDS IDENTIFIED	COMMUNITY RESPONSES	ARE THESE RESPONSES SUITABLE?	ADAPTATION/MITIGATION ACTIONS REQUIRED – EXTERNAL ASSISTANCE	ADAPTATION/MITIGATION ACTIVITIES - DONE WITHOUT EXTERNAL ASSISTANCE	SPECIFIC LOCATION
Landslide.	Not much can be done.	-	 Reforestation Retaining walls at Ferril at Mango Roe Road and the road from Bethel to Richmond Vale and from Richmond Vale to Richmond Gap. Plant wild cane bamboo, Lucania grass wild tamarind that will hold the grass and the land 	 » Do not start bush fires. » Contour and terrace land by farmers. 	-
Bush Fires.	Call fire brigade many times but cannot help so JDF has to be called for rescue.	No.	 » Educational campaigns about the fire. 	-	-

9.2 Preparedness and Initial response

This section focuses on identifying actions to build the capacities of people to help themselves (not individually but on a community basis) in case of a disaster. In many places, this approach to risk management has proven more efficient than the passive infrastructure-driven strategy based on large state-backed investments.





The preparation covers the knowledge and ability to anticipate, respond and effectively recover the effects of current or probable events or hazard conditions. This includes the development of plans, the storage of resources, training, monitoring, forecasting and warning, among others.

9.2.1 Public education and awareness

The public education and awareness strategy seeks to increase awareness, and provide the community with current information on protective measures for all threats facing the community.

Table 13. Public Education and Awareness

HAZARD	PUBLIC EDUCATION ACTION	COMMUNICATION CHANNEL	TIMELINE	RESPONSIBILITY
Fire.	Fire Safety Tips.	 » Print – posters, pamphlets. » Sensitization sessions. 	October annually during fire prevention month.	Coordinator - Public Education and fundraising – Rose Thomas.
Hurricanes and their secondary hazards.	 » Define hurricanes, their secondary hazards and impacts. » Hurricane safety and response. » Mitigation Strategies. 	 » Sensitization session on basic disaster management. » Print – posters pamphlets. 	 » April and May during hurricane preparedness months. » Annually during the hurricane season June to November. 	Coordinator - Public Education and fundraising – Rose Thomas.
Earthquake.	 » Earthquake Preparedness. » How to conduct drills. » Earthquake response. 	 » Sensitization session on basic disaster management. » Print – posters pamphlets. 	January during earthquake preparedness month.	Coordinator - Public Education and fundraising – Rose Thomas.





HAZARD	PUBLIC EDUCATION ACTION	COMMUNICATION CHANNEL	TIMELINE	RESPONSIBILITY
Flooding.	 » Explain flooding and its impacts. » Flood safety. 	 » Sensitization session on basic disaster management. » Print – posters pamphlets. » Social media. 	Ongoing and during hurricane preparedness activities.	Coordinator Public Education and fundraising – Rose Thomas.

9.2.2 Monitoring and Warning

The following persons (belonging to the CDRM Group) are responsible for monitoring and warning situations of impending disasters (e.g., hurricane, flooding, storm surge, landslide) that may affect the community and disseminate information to the DRM Group.

Table 14. Community Monitoring and Warning Programme

HAZARDS	MONITORING/WARNING METHOD	RESPONSIBILITY	PROCEDURES
Hurricane.	Listening to the radio for official information, Internet.	Coordinator – Public Education and Fundraising – Donna Samuels- Crossdale.	 The Coordinator – Public Education and Fundraising issues an alert to the zonal group via SMS or internet-based messaging system. A town crier is dispatched to warn the community. Shelter managers placed on alert
	Farmers' weather forecasts.	Coordinator – Public Education and Fundraising.	Warning sent to the President of the farmer's cooperative through their WhatsApp messaging group.





HAZARDS	MONITORING/WARNING METHOD	RESPONSIBILITY	PROCEDURES
Flooding.	 Community gauge Fording at "Man A War River" in Cedar Valley In New Monkland where Man of War River and Wildly Cane River meet by Cassie Hill 	Community gauge reader – Michael Garnett is responsible for Cedar Valley. Patta Gillings for Cassie Hill	 » See flood response plan OR » Church at Cedar Valley Baptist alerted to ring the bell.

9.2.3 Evacuation

The evacuation plan will be a guide for the community to coordinate their efforts by disseminating early warning to ensure timely and orderly evacuation of the vulnerable areas and persons. The evacuation plan will follow recommendations from Jamaican authorities regarding Covid-19 and other diseases, especially during stays in shelters; however, an evacuation order will prevail over any other lockdown/stay at home order or recommendation related to sanitary warnings.

Given the size, coastal location and low-lying nature of the community, it is recommended that the entire community evacuate during an emergency. However, it must be understood that some residents are inclined to take risks based on past experiences and so will not evacuate.

The following evacuation route and transportation route are to be used. Community members should proceed to the designated shelters as outlined in the table below. It is not necessary to assemble at an assembly point.





Table 15. Areas to be evacuated during an emergency, Evacuation Route and Mode of Transportation to Emergency Shelter

EVACUATION ZONE	EVACUATION ROUTE	SHELTER	TRANSPORTATION	ASSEMBLY POINT COORDINATOR
Mango Roe- Bethel.	From Bethel, turn right at Police Station. Continue along this road until the school is reached.	Cedar Valley Infant and Primary School.	Walking from the main road is long but it takes 5 minutes if the shortcut is used.	 Marvin Bailey-876 (409- 8199). Stachine Coley-876 (554- 9543). Paul Bailey- 876 (503-9672) 876 (805-8962).
Ness Castle- Wobourn Lawn, West Harbour.	From the district proceed to the main road and continue to the community square where the school is located.	Wobourn Lawn Primary School.	Walk.	 » Michael Barnett- 876 (853-7522).
Old Monkland, Greenfield, Duckworth.	Proceed from the district travelling westerly to the western boundary of the district where the school is. Old Monkland starts at Lindsay bridge and ends near the school.	Cedar Valley Infant and Primary School.	Walk.	 » Aldith Burton-876 (396- 3625). » Rupert Richards 876 (860- 1489). » Stephen Bently-876 (367- 8265)/ 876(559-3581).
Cedar Valley.	Proceed to the main road, heading westerly to the school that is in the centre of the community.	 » Cedar Valley Infant and Primary School. » An alternate is Cedar Valley Baptist Church. (UNOFFICIAL). 	Walk.	Donna Samuels-Crossdale- 876 (594-5285).





EVACUATION ZONE	EVACUATION ROUTE	SHELTER	TRANSPORTATION	ASSEMBLY POINT COORDINATOR
Farehill, Richmond Gap.	Exit Farehill, turn right and continue to Belly Clear Road and head to Gap. Square. Continue along the road to the end of Bromhill road where the school is located.	Richmond Gap Primary School.	Walk. Drive for elderly	Michael Barnett- 876 (853- 7522).
New Monkland.	From the Top New Monkland district, turn right, continuing along the road until the church is reached. The church is situated on the left. From Bottom New Monkland district, turn left and continue along that road. The church is on the left. (For Cedar Valley there is a shortcut through Jack Hardy Hill).	 » Cedar Valley Assembly of God is an alternate shelter. » Jamaica Bible Church was the official shelter. 	Walk. Drive for elderly.	 » Aldith Burton- 876 (396- 3625). » Rupert Richards -876 (860-1489). » Stephen Bently-876 (367- 8265)/ 876(559-3581).
Grove in Cedar Valley.	From the district proceed to the main road to the school which is in the centre of the community.	Community Centre in Grove-It is in a deplorable state so people normally stay home.	Walk.	Donna Samuels-Crossdale 876 (594-5285).





Table 16. Evacuation Procedures

ACTIVITY	PERSON RESPONSIBLE
Evaluate threat or liaise with PDC/ODPEM on the need for evacuation.	Chairman - Paul Bailey.
Alert residents on possible evacuation.	Coordinator – Preparedness - VP Donna Samuels-Crossdale Monique Blake.
Decide on timing.	Coordinator - Response & Recovery - Marvin Bailey.
	Earl Williams.
Ensure special needs populations are assisted.	Hazel Taffe. Faylene Greenleaf.
Organize transportation.	Coordinator - Response & Recovery - Aldith Burton.
Identify the route to be used.	Coordinator - Response & Recovery - Stachine Coley. Rose Thomas.
Ensure shelter is available.	Coordinator - Response & Recovery - Marvin Bailey.
Register all persons who are evacuating and their destination.	Coordinator - Response & Recovery - Marvin Bailey.
Start evacuation.	Coordinator - Response & Recovery - Miss Rene Richards.
Check that all areas are safely evacuated.	Miss Neil Ross.
Inform Parish Disaster Committee.	Miss Carl Williams.





Table 17 shows the evacuation responsible for each evacuation zone who will monitor that all evacuation activities are being conducted. The evacuation zone responsible will contact the vulnerable group responsible if needed (and vice versa).

Table 17. Evacuation Team

EVACUATION ZONE	PERSONS RESPONSIBLE FOR EVACUATION	VULNERABLE GROUP TO EVACUATE	PERSON RESPONSIBLE FOR EVACUATION OF VULNERABLE GROUPS
Mango Row-Bethel.	Marvin Bailey-876 (409-8199) Stachine Coley-876 (554-9543) Paul Bailey- 876 (503-9672) 876 (805-8962).	Elderly, persons with disabilities individuals.	Red Cross.
Farehill, Richmond Gap and Vale.	Michael Barnett- 876 (853-7522).	Elderly and disabled.	Richmond Gap Benevolent Group. Richmond Vale Circuit of Baptist Churches.
Nesscastle and Woebourn Lawn.	Michael Barnett- 876 (853-7522).	Elderly, persons with disabilities individuals.	Richmond Vale Circuit of Baptist Churches. Nest Castle Sanctified Church.
Cedar Valley Proper.	Donna Samuels-Crossdale- 876 (594-5285).	Elderly, persons with disabilities individuals.	Richmond Vale Circuit of Baptist Churches. Red Cross.
Old Monkland.	Aldith Burton- 876 (396-3625). Rupert Richards -876 (860-1489). Stephen Bently-876 (367-8265)/ 876(559-3581).	Elderly and disabled.	Richmond Vale Circuit of Baptist Churches. Red Cross





EVACUATION ZONE	PERSONS RESPONSIBLE FOR EVACUATION	VULNERABLE GROUP TO EVACUATE	PERSON RESPONSIBLE FOR EVACUATION OF VULNERABLE GROUPS
New Monkland and Greenfield.	Aldith Burton- 876 (396-3625). Rupert Richards -876 (860-1489) Stephen Bently-876 (367-8265)/ 876(559-3581).	Elderly, persons with disabilities individuals.	Red Cross. Richmond Vale Circuit of Baptist Churches.

Appendix E highlights the designated shelters for the community. All persons are encouraged to carry food to last them for three days. See Appendix D for a list of items needed.

9.2.4 Preparedness Action Plan

The Community Action Plan sets out the preparedness activities to be done for a planning cycle.

Among the activities, it must be included to conduct drills and simulation exercises for fire and earthquake preparedness and response. These exercises will allow for the testing of the disaster plan to show strengths and weaknesses in the capability of the community to respond during an emergency.

Table 18. Community Preparedness Action Plan

ACTIVITY	RESPONSIBLE PERSON(S)/AGENCY(S)	TIMEFRAME
Conduct earthquake and hurricane drills.	-	-
Search and Rescue.	JDF.	March-April.
First Aid.	Red Cross.	March-April.
Fire.	Fire Brigade.	October.





ACTIVITY	RESPONSIBLE PERSON(S)/AGENCY(S)	TIMEFRAME
Earthquake drills.	Municipal Corporation.	January.
Overall Disaster Preparedness.	ODPEM.	Ongoing.
Clean drains.	Coordinator – Prevention, Mitigation & Adaptation.	Ongoing.
Access to backhoe shovel and medical personnel.	Municipality.	2022 and ongoing.

9.2.5 Response and Relief

The Cedar Valley Command Centre will be located at the Cedar Valley Primary and Junior High School It will serve as an assembly point for community members to garner information regarding the effect of the disaster. It is also where volunteers can sign in for instructions and assignments. It will also serve as a meeting place where residents will seek to reunite or locate family members or friends.

The Command Centre will forward information to the Parish Emergency Operations Centre (PEOC). The Community Disaster Chairman will assume the lead at the Command Centre. The Public Education Coordinator will serve as the sole public spokesperson in Cedar Valley. The Cedar Valley Disaster Risk Management Group will also develop an inventory and assess the damage, and where feasible, secure the perimeter of dangerous areas. The Cedar Valley Disaster Risk Management Group will have available several volunteers who will help the Police, Fire and Building Inspectors communicate with residents.

The Chairman shall declare an emergency when a predetermined condition has been met or when advised by the Office of Disaster Preparedness and Emergency Management (ODPEM). Operating procedures will be activated as set out in the relevant Standard Operating Procedures / Plans as outlined in Appendices G, H and I.





9.2.5.1 Response

Table 19. Community Response

ACTIVITY	RESPONSIBLE PERSON(S)/AGENCY(S)	SHORT REPORT		
Send out Search and Rescue and First Aid Team to check on:				
Elderly.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Persons with Disabilities.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Single Mothers.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Damaged Buildings and Houses for Occupants.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Persons Stranded by Floodwater.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Check for:				
Deaths.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Injuries.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Persons in Need of Emergency Assistance.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Call for any External Assistance.	Coordinator – Response and Recovery - Hazel Taffe.	Committee Chair and Parish Disaster Coordinator.		
Update PDC, ODPEM.	Chairman – Paul Bailey.	Committee Chair and Parish Disaster Coordinator.		
Update Community.	Chairman – Paul Bailey.	Committee Chair and Parish Disaster Coordinator.		





Table 20. Initial Damage Assessors

	ACTIVITY	PERSON(S) RESPONSIBLE		
Send	Send out rapid assessment team to			
Checl	k on:			
»	Roads opened/closed.	Initial damage assessment coordinator.		
»	Roads In need of urgent repair to provide access.	Initial damage assessment coordinator.		
Powe	er:			
»	Fallen lines, poles transformers.	Initial damage assessment coordinator.		
»	Live wires.	Initial damage assessment coordinator.		
Wate	er and Sewage:			
»	Broken/missing water mains.	Initial damage assessment coordinator.		
»	Water available.	Initial damage assessment coordinator.		
»	Sewage pipes broken/leaking.	Initial damage assessment coordinator.		
Desci	ribe State of:			
»	Community.	Initial damage assessment coordinator.		
»	Schools.	Initial damage assessment coordinator.		
»	Clinic.	Initial damage assessment coordinator.		
»	Church.	Initial damage assessment coordinator.		
»	Shops and businesses.	Initial damage assessment coordinator.		





9.2.5.2 Damage Assessment Procedure

The community will undertake a minimum of two types of assessment within a one-week period. These assessments will be submitted to the Municipal Corporation.

Table 21. Community Damage Assessors

TYPE OF ASSESSMENT (BUILDING, AGRICULTURE, WELFARE, ETC.)	TEAM LEADER (NAME, CONTACT)	AGENCY REPORT IS TO BE SUBMITTED TO	TIMEFRAME
Situation overview	•		
Buildings, utilities and	Coordinator - Response & Recovery.	Municipal Corporation.	Within 8 hours.
infrastructure.	coordinator - Response & Recovery.		within 8 hours.
Welfare.	Coordinator - Response & Recovery.	Ministry of Labour and Social	Within 8 hours.
wenale.	coordinator - Response & Recovery.	Security	
Agriculture.	Lead farmer assigned by the Rural	Rural Agriculture Development	Within 8 hours.
Agriculture.	Agriculture Development Authority.	Authority (RADA).	
Initial damage Assessment		·	
Buildings, utilities and	Coordinator - Response & Recovery.	Municipal Corporation.	Within 72 hours.
infrastructure.	Coordinator - Response & Recovery.		
Welfare.	Coordinator - Response & Recovery.	Municipal Corporation	Within 72 hours.
Agriculture.	Coordinator - Response & Recovery.	Municipal Corporation	Within 72 hours.





Response Action Plan

Table 22. Community Response Action Plan

RESPONSE ACTIONS IN ORDER OF PRIORITY	RESPONSIBLE PERSON(S)/AGENCY(S)	AGENCY TO REPORT TO
Evacuation Route Management.	Coordinator - Response & Recovery.	Municipal Corporation – Parish Disaster Coordinator.
Evacuation.	Coordinator - Response & Recovery.	Municipal Corporation – Parish Disaster Coordinator.
Trucking of Water.	Coordinator - Response & Recovery.	Municipal Corporation – Parish Disaster Coordinator.
Alternative Sources of Lighting.	Coordinator - Response & Recovery.	Municipal Corporation – Parish Disaster Coordinator.
Search and Rescue.	Search and Rescue Coordinator.	Municipal Corporation – Parish Disaster Coordinator.
Children Welfare and the Disabled.	Coordinator - Response & Recovery.	Municipal Corporation – Parish Disaster Coordinator.
Initial Damage Assessment.	Coordinator - Response & Recovery.	Municipal Corporation – Parish Disaster Coordinator.
Welfare Assessment.	Damage Assessment Coordinator.	Ministry of Labour and Social Security.





9.2.5.3 Relief **Table 23. Relief Assistance**

ACTIVITY	PERSON(S) RESPONSIBLE
Identify members of community who have:	·
Received damage.	Damage Assessment Coordinator.
Need shelter.	Shelter Management Coordinator.
Lost means of income.	Coordinator - Response & Recovery.
Need assistance.	Coordinator - Response & Recovery.
Identify members of the community in need of psycho-social support or counselling.	Coordinator - Response & Recovery.
Compile a list and update PDC and ODPEM.	Coordinator - Response & Recovery.





9.2.6 Recovery

Table 24. Recovery Action Plan

ACTIVITY	PERSON(S) RESPONSIBLE	TIMEFRAME
Identify hazards that could affect the community, identify their potential impact and anticipate possible recovery actions.	Coordinator – Vulnerability and Risk identification.	Before a hazard strikes.
Prepare a summary of the impacts of the event in an easy to read format.	Damage Assessment coordinator.	Within 7 days of the event.
Develop a list of priority activities/ projects based on the damage sustained, hazard history and other criteria agreed upon by the CDRMG. Mobilize the community and get their input.	Coordinator - Response and Recovery Coordinator – Prevention, mitigation and adaptation.	Within one month of the event
Develop the recovery plan, establishing timeframes for each activity and responsible person.	Coordinator - Response and Recovery.	Within 6 weeks of the event
Coordinate with the Municipal Corporation and share the recovery plan and ask for assistance with costing.	Chairman.	Within 7 weeks of the event.
Secure outside help to implement the priority activities (NGOs, Food for the Poor, ADRA, Jamaica Red Cross, government departments, commercial enterprises in the community and the private sector).	Coordinator - Public education and fundraising.	Within 8 weeks of the event.
Get wider community buy-in and support for the implementation of the recovery activities.	Coordinator - Public education and fundraising.	4 – 8 weeks after the event.
Identify skills and capacities that will be needed to implement the recovery projects/activities and conduct training as needed (Safer building/roof training, agriculture training in sustainable farming/livestock techniques, environmental protection etc).	Coordinator - Public education and fundraising.	4 – 8 weeks after the event.





ACTIVITY	PERSON(S) RESPONSIBLE	TIMEFRAME
 Implement Recovery projects/activities: Mobilize community members to assist each other in rehabilitation and reconstruction activities taking into account building codes and inclusion of mitigation measures. Mobilize the community to assist in the rehabilitation of critical facilities. 	Coordinator – Response and Recovery Coordinator – Prevention, mitigation and adaptation.	Minimum of one month after the event.
Document lessons learnt for the recovery experiences to enhance future recovery planning including updating the plan if necessary.	Coordinator – Response and Recovery.	Ongoing.





APPENDIX A – COMMUNITY EMERGENCY CONTACT LIST

COMMUNITY EMERGENCY CONTACT LIST	CONTACT PERSON	TELEPHONE Nº/EMAIL
CDRM Group President.	Paul Bailey.	876 (503-9672).
	Paul Dalley.	876 (805-8962).
CERT President.	Donna Samuels-Crossdale (CERT	876 (596-5285).
	contact person).	
Police.	Allison Byfield.	876 (836-5878) <u>stthomasdivhq@jcf.gov.jm</u> .
		876 (564-6789) <u>dhstthomas.jfb@cwjamaica.com</u> .
Fireman.	Horace Thomas.	876 (5641622).
Ambulance.	Dr O'yen Smith.	876 (317-8985)/ 876 (405-4316) .
		doyensmith@gmail.com
Ministry of Health.	Dr O'yen Smith.	876 (317-8985)/ 876 (405-4316) .
		doyensmith@gmail.com.





APPENDIX B – VULNERABLE POPULATION

This table contains the number of vulnerable persons in Cedar Valley and the districts in which they are located.

TYPE OF VULNERABILITY (FOR EXAMPLE, ELDERLY, DISABLED, SINGLE MOTHERS)	NUMBER OF VULNERABLE PERSONS	LOCATION OF VULNERABLE	NEXT OF KIN/CARE GIVER & CONTACT INFO	CDRT/CERT MEMBER RESPONSIBLE
Programme of Advancement Through Health and Education (PATH) Beneficiaries.	164 persons.	Ness Castle, New Monkland, Woburn, Mt Vernon, Monkland, Mango Row, Grove, Cedar Valley, Bethel Gap.	N/A	N/A
Persons with Disabilities.	90 Persons.	Ness Castle, Big lane, Content, New Monkland, Woburn, Mt Vernon, Monkland, Mango Row, Grove, Cedar Valley, Bethel Gap, Duckworth,	N/A	N/A
Elderly.	0 Persons	-	N/A	N/A





APPENDIX C – EQUIPMENT ALREADY AVAILABLE IN THE COMMUNITY

The table identifies the equipment and the quantity the DRM team requires.

ITEMS (QUANTITY PER ITEM)	STORAGE LOCATION	CONTACT PERSON(S) FOR STORAGE	CONTACT NUMBER
Water Boots.	Municipal Corporation.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Machetes.	None.	-	-
Shovels.	None.	-	-
Forks.	None.	-	-
Hazardous infection diseases protection materials: masks and alcohol-based gel.	Limited amount at Municipal Corporation.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com





APPENDIX D – ITEMS REQUIRED EXTERNALLY

ITEMS REQUIRED	QUANTITY	SOURCE AGENCY/BUSINESS	CONTACT PERSON(S) FOR STORAGE	CONTACT INFORMATION
First Aid Kits.	Yes, required.	Ministry of Health, Jamaica Red Cross, Food for the Poor.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Hazardous infection diseases protection materials: masks.	Yes, required.	ODPEM, Ministry of Agriculture, RADA, Jamaica Agricultural Society, Jamaica Fire Brigade.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Hazardous infection diseases protection materials: alcohol- based gel.	Yes, required.	ODPEM, Ministry of Agriculture, RADA, Jamaica Agricultural Society, Jamaica Fire Brigade.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Shovels.	Yes, required.	ODPEM, Ministry of Agriculture, RADA, Jamaica Agricultural Society, Jamaica Fire Brigade.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Water boots.	Yes, required.	Hardware, Food for the Poor, Department of Fisheries, Fisherman's Corp.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Heavy-duty gloves.	Yes, required.	ODPEM, Hardware.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Rain cloaks.	Yes, required.	ODPEM, Hardware.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com





ITEMS REQUIRED	QUANTITY	SOURCE AGENCY/BUSINESS	CONTACT PERSON(S) FOR STORAGE	CONTACT INFORMATION
Hard hats.	Yes, required.	Hardware, Food for the Poor, Livestock Association.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Machetes.	Yes, required.	Municipal Corporation, ODPEM, MLSS, Red Cross.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Canvas Stretchers.	Yes, required.	Hardware, Food for the Poor, Department of Fisheries, Fisherman's Corp.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Crow bars.	Yes, required.	Municipal Corporation, ODPEM, MLSS, Red Cross.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Rip/Crosscut Saws.	Yes, required.	Tankweld, Rhino.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Axe Saws with extra Blades.	Yes, required.	Wisynco, Hardware.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Heavy-duty Screw Drivers.	Yes, required.	Ministry of Health, National Water Commission.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Large/medium Cold Chisels	Yes, required.	ODPEM, Hardware.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Claw Hammers	Yes, required.	ODPEM, Hardware.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Heavy duty Sledge Hammers	Yes, required.	Gas Station.	Miss Martina Medley.	876 (487-2656) stthomasdm@gmail.com
Flashlights	Yes, required.	ODPEM, Hardware.	Miss Martina Medley.	876 (487-2656)





APPENDIX E – LIST OF OFFICIAL AND UNOFFICIAL EMERGENCY SHELTERS

List of Official and Unofficial Emergency Shelters

The shelter list is being updated by the Municipal Corporation and will be submitted as soon as it is completed. The shelters listed in this table were contributed by the community and will be validated when the shelter list is updated.

SHELTER NAME AND LOCATION	ACCESS ROUTE TO SHELTER	AREA SERVED	SHELTER MANAGER AND CONTACT DETAILS	OTHER SHELTER TEAM MEMBERS AND KEY CONTACTS FOR FACILITY, AND CONTACT DETAILS
Cedar Valley Primary and Junior High School Cedar Valley District, Cedar Valley PO. St. Thomas.	See Evacuation Plan.	Mango Row, Bethel, Cedar Valley, Cedar Valley Proper, Grove Old Monkland, Greenfield, Duckworth, Nesscastle.	Hazelle Taffe. Levi Edwards. Reuben Brown.	360-7155. 856-8590. 376-1664.
Richmond Gap Primary Richmond Gap, Cedar Valley, PO, St. Thomas.	See Evacuation Plan.	Albion Mountain, Mount Vernon Gap, Richmond, Richmond Vale.	Sonia Henry. Barbara Folke.	569-8987. 452-6714.
Woburn Lawn Primary Woburn Lawn, Cedar Valley PO, St. Thomas.	See Evacuation Plan.	Arntully Grove, Woburn Lawn, Ness Castle, Content.	Icilda Edwards.	859-4929.





APPENDIX F - EMERGENCY SUPPLIES TO BE TAKEN TO SHELTER BY SHELTEREES

- » Canned Food (mackerel, corned beef, mixed vegetable, sardines etc.).
- » Salt Fish.
- » Crackers.
- » Drinking Water.
- » Medication.
- » Lantern or Flashlight.
- » Bedding or Blankets.
- » Sponge Foam Pad for sleeping.
- » Toiletries such as soap, toothbrush, toothpaste, rags, deodorant and shampoo.
- » For Babies: Pampers, formulae, cough syrup, soap, baby shampoo, mosquito repellent.
- » Utensils.
- » Can Opener.
- » Books.
- » Toys for Children.
- » First Aid Kits.
- » Hazardous infection diseases protection materials: masks and alcohol-based gel.
- » Hazardous infection diseases information posters.





APPENDIX G – HURRICANE STANDARD OPERATING PROCEDURES (SOPS)

Purpose

The purpose of this Hurricane SOP is to establish the necessary action steps for an effective and safe response to hurricanes that could potentially affect the community of Bath. Hurricanes could result in damages to community infrastructure and facilities, loss of life and property, and other incidents with varying severity from minimal to catastrophic; depending on the intensity of the hurricane. The CDRM Group shall work with government organizations, NGOs/CBOs, the private sector and other stakeholders to facilitate the safety of community members. This SOP intends to maintain clearly defined procedures for before, during and after hurricane events. Hurricanes occur primarily during a distinct season that runs from June 1 to November 30.

Objectives

The concepts and procedures in this SOP are set to:

- » Facilitate coordination among community members and the CDRM Group in preparing for and responding to hurricanes.
- » Ensure a logical and sequenced set of actions for community response.
- » Assign specific tasks to ensure collaboration and execution activities.

Threat Assessment

The National Oceanic and Atmospheric Administration provide an annual forecast for the Hurricane Season. Forecast information is communicated through the Meteorological Service of Jamaica (Met Office) and the ODPEM. The annual anticipated threat for this plan includes:

- » At least one (1) hurricane event or near miss (with significant wind and rain).
- » Significant rain events during the period at least one (1) affecting the community.





Basic Planning Assumptions

- » At least one major Hurricane will probably affect the country/community.
- » CDRM Group will remain active and functional.
- » Community members will be responsive to CDRM Group programmes, initiatives, warnings and other information.
- » There is commitment and support from agencies and departments of government to assist the community.
- » The community is willing to utilize its resources in preparedness and response.
- » CDRM Group will train and establish Community Emergency Response Team(s) (CERTs).

Concept of Operations

These SOPs are designed to establish a concept of operations spanning the direction and control of the disaster from initial monitoring through post-disaster response, recovery, and mitigation. All activities are community-driven, with technical assistance provided by agencies, departments, NGOs and the private sector as necessary.

Procedures will be categorized into the following phases:

- Phase 1: Prevention, Preparedness and Mitigation (January through to 144 hours before impact).
- Phase 2: Alert (144 hours up to 72 hours before impact)
- Phase 3: Event and Event Response (72 hours before impact through to 120 hours after landfall/All Clear)
- Phase 4: Recovery





Hurricane Categories

Category One Hurricane

A Category One Hurricane has winds of 74 to 95 mph and is typically characterized by *minimal damage*. Storm surge is generally 4 to 5 feet above normal.

Category Two Hurricane

A Category Two Hurricane has winds of 96 to 110 mph and is typically characterized by moderate damage. Storm surge is generally 6 to 8 feet above normal.

Category Three Hurricane

A Category Three Hurricane has winds of 111 to 130 mph and is typically characterized by extensive damage. Storm surge is generally 9 to 12 feet above normal.

Category Four Hurricane

A Category Four Hurricane has winds of 131 to 155 mph and is typically characterized by extreme damage. Storm surge is generally 13 to 18 feet above normal.

Category Five Hurricane

A Category Five Hurricane has winds of greater than 155 mph and is typically characterized by catastrophic damage. Storm surge is generally greater than 18 feet above normal.

Warnings and Watches

The National and Regional Weather Service issues the following types of warnings and watches associated with tropical storms:

Tropical Storm Watch

A tropical storm watch is issued when tropical storm conditions, including winds from 39 to 73 mph, pose a possible threat to a specified coastal area within 36 to 48 hours.

Tropical Storm Warning

A tropical storm warning is issued when tropical storm conditions, including winds from 39 to 73 mph, are expected in a specified coastal area within 36 hours or less.





Hurricane Watch

A hurricane watch is issued for a specified coastal area for which a hurricane or a hurricane-related hazard is a possible threat within 36 to 48 hours.

Hurricane Warning

A hurricane warning is issued when a hurricane with sustained winds of 74 mph or higher are expected in a specified coastal area in 36 hours or less.

Flash Flood Watch

Flash Flood Watch is issued when a flash flood is possible in an area. Everyone should stay alert

Flash Flood Warning

Flash Flood Warning is issued when a flash flood is imminent. Everyone in the area should take immediate action to protect lives and property.

Operating Procedures

PHASE 1: Prevention, Mitigation and Preparedness (January through to 5 Days before impact)

Prevention, Mitigation and Preparedness activities as mentioned in these SOPs are specific actions to be taken by respective CDRM Coordinators and their teams (drafted support persons) to ensure proper planning and coordination for hurricane emergency. Coordinators should utilize other information and measures highlighted in the CDRM Plan to as a guide for other actions.

	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
	ntinue to support and promote public information ness programmes.	Coordinator – Public Education and Fund Raising	Rose Thomas
2. Sen	sitize special needs population	Coordinator – Public Education and Fund Raising	Rose Thomas
	anize how special needs population will be and transportation required.	Coordinator - Preparedness	Rose Thomas





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
4. Put arrangements in place to have vehicles to be used in evacuation fuelled with petrol	Coordinator - Preparedness	Rose Thomas
5. Send a reminder/update to the Fire Brigade of the evacuation route for the community. Do a walk through if possible	Coordinator – Preparedness Coordinator - Response & Recovery	Hazel Taffe
6. Sensitization of persons in the community without vehicles of assembly area for transportation to more safe location.	Coordinator – Public Education and Fund Raising	Rose Thomas
7. Identify areas in the community where high potential for infrastructure/ property damages.	Coordinator - Vulnerability & Risk Identification	l'Rennie Richards
8. Ensure DRM teams are aware of all high-risk locations in the community.	Coordinator - Vulnerability & Risk Identification	l'Rennie Richards
9. Prepare areas for sheltering persons in need	Coordinator – Preparedness	Rose Thomas
10. Re-engage community volunteers to provide assistance in shelters and other areas. Consult with PDC for facilitating training or refresher courses.	Coordinator – Preparedness	Rose Thomas
11. Ensure new developments are assessed and relevant measures put in place to safeguard community.	Coordinator - Prevention & Mitigation	Paul Bailey
12. Organize mitigation and prevent projects and work days with technical guidance from relevant agencies (with the help of the PDC.	Coordinator - Prevention & Mitigation	Paul Bailey




PHASE 2: Alert (5 Days up to 72 hours before impact)

ACTIVITIES	PERSON(S) RESPONSIBLE	
1. Meet and assess the community's state of preparedness for a hurricane	Chairman – Paul Bailey	
2. Advise community to listen to all weather advisories		
1. Issue warning of threat		
2. Alert and notify:		
» PDC that community DRM teams are activated		
» Other CBOs	Coordinator - Preparedness – Rose Thomas	
» Shelter Managers		
» Response personnel		
3. Make available all relevant information on the hazard to the		
general community.		
1. Pre-check and activate SOPs		
2. Alert all trained community first aiders and search and rescue personnel.	Coordinator - Preparedness – Rose Thomas	
3. Have first-aid kits prepared		





ACTIVITIES	PERSON(S) RESPONSIBLE
 Personal for families: Make sure your family goes over the family disaster plan. Make plans for protecting your house, especially the roof, windows and doors. Have flashlight and extra batteries Have portable battery-operated radio and extra batteries Ensure provisions are put in place for emergency food and water. 	Coordinator – Preparedness– Rose Thomas Coordinator - Response & Recovery - Hazel Taffe
 Protecting the community: » Trim dead or weak branches from trees » Clear all drains that will cause flooding 	Coordinator – Preparedness– Rose Thomas Coordinator - Response & Recovery - Hazel Taffe
Listen to all weather advisories and information from ODPEM, MET office, and communicate with PDC.	Coordinator – Preparedness– Rose Thomas Coordinator - Response & Recovery - Hazel Taffe





PHASE 3: Event and Event Response (72 hours before impact through to 5 Days after landfall) All Clear

ACTIVITIES	PERSON(S) RESPONSIBLE
DRM Team Advise the Community to listen to all weather advisories and remain alert	Coordinator – Preparedness– Rose Thomas
Continue to listen to all weather advisories and reports.	Coordinator – Preparedness– Rose Thomas

A. HURRICANE WATCH - 48 Hours before Impact

	ACTIVITIES	PERSON(S) RESPONSIBLE
1.	Personal preparation food supplies	
2.	Securing official documents	Coordinator - Response & Recovery - Hazel Taffe
3.	Securing home and get rid of all thing around the yard that can be missile in a hurricane	
4.	Check on neighbors that may need help	
Ens	ure the Elderly and Physical challenged are notified and assisted to prepare for event.	Coordinator - Response & Recovery - Hazel Taffe

B. HURRICANE WARNING - *36 Hours before impact*

	ACTIVITIES	PERSON(S) RESPONSIBLE
1.	Activate and brief all community teams and volunteers	Coordinator - Response & Recovery - Hazel Taffe
2.	Test the systems of communication within the community.	
3.	If cell phones are the be used ensure credit is bought	
4.	Ensure phones can be charged	





ACTIVITIES	PERSON(S) RESPONSIBLE
Activate volunteers to be on standby to assist with damage assessment. Conduct briefing of these volunteers.	Coordinator - Response & Recovery - Hazel Taffe
 Activate and prepare emergency shelters Deploy relief and welfare volunteers to emergency shelters 	Coordinator - Response & Recovery - Hazel Taffe
Ensure contacts are made with the PDC and other stakeholders for assessment of shelter facilities if necessary.	Coordinator - Response & Recovery - Hazel Taffe
Contact PDC and prepare to Initiate evacuation procedures for the community.	Coordinator - Response & Recovery - Hazel Taffe
1. Re-check arrangements and MOUs with private bus owners and other volunteers in the community.	
2. Pre-position the following resources to areas which will potentially be cut off:	
» Food stocks/welfare items	Coordinator - Response & Recovery - Hazel Taffe
» Communications equipment	Coordinator – Preparedness – Marvin Bailey
» Manpower	
» Power saws	
3. Refuel vehicles	
1. Encourage residents to activate family plans	
2. Pre-position resources: List these resources	
» Equipment, ropes, etc	Coordinator - Response & Recovery - Hazel Taffe
» Food stocks/welfare items	Coordinator – Preparedness – Marvin Bailey
» Communications equipment	
» Manpower	





C. 24 HOURS BEFORE IMPACT

	ACTIVITIES	PERSON(S) RESPONSIBLE
1. 2.	Notify PDC of activation of evacuation plan Consult PDC on all matters relating to the activation of any or all evacuation systems.	Coordinator - Response & Recovery - Hazel Taffe
Activa	ate and test local communications links and report to PDC.	Coordinator - Response & Recovery - Hazel Taffe
» to eva » » »	community of activation of evacuation and persons to be evacuated: Review evacuation routes and gather your disaster supply kit in case you are instructed acuate. Communicate assembly points and deploy marshals. Make contact with shelter managers to receive evacuees. Inform PDC of actions to be taken. All electricity and gas supplies should be shut-down when closing businesses or nating homes. Ensure the Elderly and Physically challenged to be evacuated. Ensure registration of all evacuated. Check that all needing evacuees are safely evacuated.	Coordinator - Response & Recovery - Hazel Taffe
» activit	Monitor radio for hurricane warnings and public information via news releases through M and Met office. Monitor Radios for precautionary tips together with packaged information of the ties of responding agencies. community Initial Damage Assessment Team(s).	Coordinator - Response & Recovery - Hazel Taffe Coordinator - Response & Recovery - Hazel Taffe
	rm lines of credit with merchants to enable easy access to relief supplies after the	Coordinator - Response & Recovery - Hazel Taffe





D. 16 HOURS BEFORE IMPACT TO LANDFALL

n Response & Recovery - Hazel Taffe

E. THE BLOW

ACTIVITIES	PERSON(S) RESPONSIBLE
Monitor and report events as far as possible.	Chairman Vice Chairman
Maintain contact with PEOC, Shelters and response personnel.	Coordinator - Response & Recovery - Hazel Taffe





F. AFTERMATH (IMMEDIATELY FOLLOWING THE BLOW TO 5 DAY AFTER ALL CLEAR)

ACTIVITIES	PERSON(S) RESPONSIBLE
1. Check with PDC for persons to return home but only after authorities say it is safe to do so. Keep tuned to your local radio or TV station for recovery information. Confirm All Clear	Coordinator - Response & Recovery - Hazel Taffe
1. Deploy community damage survey teams or assessors.	
2. Deploy community response teams to check on vulnerable (elderly and physically challenged) and critical facilities.	
3. Check for deaths, injuries and persons needing emergency assistance.	Coordinator - Response & Recovery - Hazel Taffe
4. Conduct first aid and search and rescue operations as necessary.	
5. Notify PEOC of critical/emergency cases.	
6. Provide PEOC with status report.	

G. (a) Up to 48 Hours After All Clear

	ACTIVITIES	PERSON(S) RESPONSIBLE
Provid	de initial damage survey and needs of the community	Coordinator - Response & Recovery - Hazel Taffe
1.	Provide ground reconnaissance intelligence to the PDC.	
2. throu	Assist the Fire Brigade and NWA with road clearing, and search and rescue activities gh the PEOC.	Coordinator - Response & Recovery - Hazel Taffe
3.	Assist with the establishment and staffing of registration centers.	
	re of downed or lose power lines. Report them immediately to the JPS, Police or Fire rtment.	Coordinator - Response & Recovery - Hazel Taffe
Advis	e community members to enter their homes with caution:	





» flames	Open windows and doors to ventilate or dry your home. Do not use candles or open in doors. Use a flashlight to inspect for damage.	Coordinator - Response & Recovery - Hazel Taffe
» buildin	Check for gas leaks. If they smell gas or hear a blowing or hissing noise, quickly leave the g and leave the doors open. Call the gas company.	
» at the i	Look for electrical system damage. If they see sparks or frayed wires, turn off electricity main fuse box.	
»	If they have to step in water to reach the electric box, call an electrician for advice.	
1.	Check for sewage and water-line damage.	
2.	If you suspect there is such damage, call the NWC Company and or PDC.	Coordinator - Response & Recovery - Hazel Taffe
3. do so.	Advice community not to drink or prepare food with tap water until notified it is safe to	

H. (b) Up to 48 Hours to 5 Days After All Clear

	ACTIVITIES	PERSON(S) RESPONSIBLE
Cons	stantly advise the community:	Coordinator - Response & Recovery - Hazel Taffe
»	To conserve water and food.	
»	To stay living at their homes if it is safe to do so.	
»	To take particular care with hygiene and sanitary practices.	
» resto	Of measures being taken with respect to provision of food and water and pration of public utilities.	
1.	Coordinate requests for and offers of assistance through the PEOC.	Coordinator - Response & Recovery - Hazel Taffe
2.	Coordinate reconnaissance and damage assessment teams through the PEOC.	
	Ascertain the early requirements for Government assistance in re-establishing the munity.	
Coor	rdinate the establishment, staffing and management of emergency shelters for sustained use	Coordinator - Response & Recovery - Hazel Taffe





ACTIVITIES	PERSON(S) RESPONSIBLE
in community. Encourage persons affected to stay with friends or family as first options.	
Coordinate requests, receipt and distribution of food, clothing and water supplies through the PEOC.	Coordinator - Response & Recovery - Hazel Taffe
 Assist with the distribution of supplies. Assist with the tracing of missing persons. Assist with needs assessments. Assist in the provision of welfare information to persons affected. Begin to effect minor repairs to critical facilities and clear road ways and drains. Continue to provide feedback and assistance to the community through the PDC and PEOC. 	Coordinator - Response & Recovery - Hazel Taffe Chairman Vice Chairman





PHASE 4: Recovery

	ACTIVITIES	PERSON(S) RESPONSIBLE
	Mobilize Community members to assist each other with rehabilitation and reconstruction activities.	
	Encourage community members to rebuild bearing in mind mitigation measures (build back better).	Coordinator - Response & Recovery - Hazel Taffe Coordinator - Prevention & Mitigation - Paul Bailey
	Mobilize and conduct repairs to critical facilities and infrastructure (Schools, clinic, water supplies and others)	
		Chairman
1.	Update PDC on recovery activities by external agencies/ departments/organizations.	Vice Chairman
2.	Monitor progress and ensure deficiencies are reported.	Coordinator – Public Education and Fund Raising - Rose Thomas
	vilize CDRM Group to seek assist from NGOs (e.g. Red Cross, Food for the Poor, ADRA and ers) to assist in community recovery initiatives.	Chairman - Paul Bailey
Iden	tify and share Lessons Learnt to enhance future preparedness and response activities:	
»	Challenges in responding to incidents	
»	Which systems were overburdened?	Chairman - Paul Bailey
»	What resources were lacking (human and physical)?	Vice Chairman – Donna Samuels-Crossdale
»	How did the community cope?	
»	What areas of the SOPs need to be reconsidered?	
Povi	se SOPs as necessary	Chairman - Paul Bailey
L L L	SC SUF 3 as liclessaly	Vice Chairman – Donna Samuels-Crossdale





APPENDIX H – EARTHQUAKES – STANDARD OPERATING PROCEDURES (SOP)

Purpose

The purpose of this Earthquake SOP is to establish the necessary action steps for an effective and safe response to earthquakes that could potentially affect the community of Bath. Earthquakes can result in damages to community infrastructure and facilities, loss of life and property, and other incidents with varying severity from minimal to catastrophic; depending on the intensity of the earthquake. The CDRM Group shall work with government organizations, NGOs/CBOs, the private sector and other stakeholders to facilitate the safety of community members. This SOP intends to maintain clearly defined procedures for before, during and after earthquake events.

Earthquakes can happen at any time with varying degrees of strength or magnitudes. The community recognizes that it must be prepared to respond, recover and mitigate against the effects of an earthquake.

Objectives

The concepts and procedures in this SOP are set to:

- » Facilitate coordination among community members and the CDRM Group in preparing for and responding to earthquakes.
- » Ensure a logical and sequenced set of actions for community response.
- » Assign specific tasks to ensure collaboration and execution activities.

Threat Assessment

The community of Bath has little history of earthquakes. The anticipated threat for this plan includes at least one event in the next ten years (at any time) that will have a moderate to major effect on most buildings and critical infrastructure.

Basic Planning Assumptions

» At least one moderate earthquake will probably affect the country/community in the next 5-100 years.





- » CDRM Group will remain active and functional.
- » Community members will be responsive to CDRM Group programmes, initiatives, warnings and other information.
- » There is commitment and support from agencies and departments of government to assist the community.
- » The community is willing to utilize its resources in preparedness and response as far as possible.
- » CDRM Group will train and establish Community Emergency Response Team(s) (CERTs).

Concept of Operations

These SOPs are designed to establish a concept of operations spanning the direction and control of the disaster from initial monitoring through post-disaster response, recovery, and mitigation. All activities are community-driven, with technical assistance provided by agencies, departments, NGOs and the private sector as necessary.

Procedures will be categorized into the following phases:

Phase 1: Prevention, Preparedness and Mitigation (year-round).Phase 2: Event, Event Response, Damage AssessmentPhase 3: Recovery

Acronyms

AAR After Action Report CERT Community Emergency Response Team **Community Disaster Risk Management** CDRM DRM **Disaster Risk Management** EOC **Emergency Operations Centre** NEOC National Emergency Operations Centre NGO Non-Government Organization ODPEM Office of Preparedness and Emergency Management Parish Disaster Coordinator/Committee PDC





PEOC Parish Emergency Operations Centre

Definitions

All Clear

An All Clear is a statement issued by the pertinent authority (Earthquake Unit, ODPEM) when a threat has passed. The *All Clear*, for an Earthquake – is when the earthquake has passed and the associated after-shocks or tremors are no longer expected to affect the country/community.

Emergency Operations Centre (EOC)

A multi-agency coordination centre that provides support and coordination to the on-scene responders.

Incident

An event that occurs that may lead to an emergency condition.

Earthquake

A shaking or rolling motion of the earth's surface is caused by a sudden release of energy from below the earth's surface. The release of energy is generally caused by slipping or breakage of rock below the earth's surface.

Epicentre

The position on the ground directly above where the slip under the earth's surface first occurs. The magnitude felt is likely to be greatest at this point. The damage is likely to be worst at this point.

After-Shock

Tremors or smaller earthquakes that occur after the main shock is felt. After-shocks can occur over a few hours to months after the main shock.

Tremor

The shaking or seismic waves felt or caused by an earthquake or explosion.

Magnitude

A measure of the amount of energy released during an earthquake. Magnitude is typically measured on the Richter scale for the Caribbean.







Source: http://uwiseismic.com/Downloads/LYNDON_BROWN.pdf.











Operating Procedures

PHASE 1: Prevention, Mitigation and Preparedness

Prevention, Mitigation and Preparedness activities as mentioned in these SOPs are specific actions to be taken by respective CDRM Coordinators and their teams (drafted support persons) to ensure proper planning and coordination for an earthquake emergency. Coordinators should utilize other information and measures highlighted in the CDRM Plan to as a guide for other actions.

ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
1. Continue to support and promote public information and awareness programmes.	Coordinator – Public Education and Fund Raising	Rose Thomas
2. Sensitize special needs population.		
3. Organize how special needs population will be evacuated and transportation required.		
4. Put arrangements in place to have vehicles to be used in evacuation fueled with petrol.	Coordinator – Preparedness	Marvin Bailey
5. Send a reminder/update to the Fire Brigade of the evacuation route for the community. Do a walk through if possible.		
6. Sensitization of persons in the community without vehicles of assembly area for transportation to more safe location.	Coordinator – Public Education and Fund Raising	Rose Thomas
 7. Identify areas in the community where high potential for infrastructure/property damages. 8. Ensure DRM teams are aware of all high-risk locations in the community. 	Coordinator - Vulnerability & Risk Identification	l'Rennie Richards
 9. Prepare areas for sheltering persons in need. 10. Re-engage community volunteers to provide assistance in shelters and other areas. Consult with PDC for facilitating training or refresher courses. 	Coordinator – Preparedness	Marvin Bailey





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
 Ensure new developments are assessed and relevant measures put in place to safeguard community. Organize mitigation and prevent projects and work days with technical guidance from relevant agencies (with the help of the PDC. 	Coordinator - Prevention & Mitigation	Paul Bailey
13. Procurement and placement of necessary response equipment and supplies for shelters – mattresses/blankets/sheets, water, first aid kits, hygiene kits, mutual aid agreements (for food), information sheets/pen, notice board, radio communications (base radio, handhelds positioned), contact list, SOP manual.	Vice Chairman	Donna Samuels-Crossdale
14. Procurement and placement of necessary response equipment and supplies for evacuation or sector team leaders – including first aid kits, ropes, masking tape, stretchers, splints, sheets.	Vice Chairman Coordinator – Preparedness	Donna Samuels-Crossdale Marvin Bailey
15. Organize and ensure supplies and systems for damage assessment are in place – damage assessment forms, working pens, means of communication to relevant persons, contact list, field reference guide and SOP manual.	Secretary	Stephen Bentley and Stachine Coley to assist
 16. Liaison for maintenance and to keep open all access routes – main transportation routes and alternative access routes. 17. Community inventory of building quality. 18. Community inventory of road networks and updating of community map. 19. Identify alternative sources of water, sources of alternative/temporary housing solutions. 	Coordinator - Prevention & Mitigation	Paul Bailey
 20. Put mutual aid agreements in place for emergencies such as earthquakes. 21. Meet and assess the community's state of preparedness for an earthquake 	Coordinator – Preparedness	Marvin Bailey





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
 22. Organize or initiate and support drills » Trained community first aiders » Search and rescue personnel » Have first-aid kits prepared » Support for school and business community drills 23. Make available all relevant information on the hazard to the general community 24. Personal for families: - Make sure your family goes over the family disaster plan 	Coordinator – Preparedness Coordinator - Response & Recovery Coordinator – Public Education and Fund Raising	Marvin Bailey Hazel Taffe Rose Thomas
 25. Protecting the community: » Encourage residents to check and address building and roofing strength. Keep yards clear of debris » Keep roads and open lots clear of solid waste and debris. 	Coordinator – Preparedness Coordinator - Prevention & Mitigation Coordinator – Public Education and Fund Raising	Marvin Bailey Paul Bailey Rose Thomas

PHASE 2: THE EARTHQUAKE - The first 3-6 hours immediately following the event

	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
1.	Monitor and report events as far as possible.	Chairman Vice Chairman	Paul Bailey Donna Samules-Crossdale
2.	Maintain contact with PEOC, Shelters and response personnel.	Coordinator - Response & Recovery	
3. Acco	Depending on the severity, ensure all buildings are vacated. unt for missing persons.	Coordinator - Response & Recovery	Hazel Taffe
4. and r	DRM Team Advise the Community to listen to all advisories emain alert for after shocks	Coordinator – Preparedness	Marvin Bailey





AFTERMATH (IMMEDIATELY following the blow to 5 Days after all clear)

	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
	Check with PDC for persons to return home but only after rities say it is safe to do so. Keep tuned to your local radio or TV n for recovery information. Confirm All Clear.		
2.	Deploy community damage survey teams or assessors		
3. (elder	Deploy community response teams to check on vulnerable ly and physically challenged) and critical facilities.		
4. assista	Check for deaths, injuries and persons needing emergency ance.		
5.	Conduct first aid and search and rescue operations as necessary.	Coordinator - Response & Recovery	Hazel Taffe
6.	Notify PEOC of critical/emergency cases.		
7.	Provide PEOC with status report.		
8.	Provide initial damage survey and needs of the community		
9.	Provide ground reconnaissance intelligence to the PDC.		
10. and re	Assist the Fire Brigade and NWA with road clearing, and search escue activities through the PEOC.		
11. centre	Assist with the establishment and staffing of registration es.		
12. imme	Beware of downed or lose power lines. Report them diately to the JPS, Police or Fire Department.	Coordinator - Response & Recovery Coordinator – Public Education and Fund Raising	Hazel Taffe Rose Thomas





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
13. Advise community members to enter their homes with caution:		
» Check for sewage leaks in homes/yards. Cordon off area and report to NWC and Parish Disaster Coordinator/Municipal Corporation/PEOC.		
» Check for water leaks in homes/yards. Report to NWC and Parish Disaster Coordinator/Municipal Corporation/PEOC.		
» Check for gas leaks. If they smell gas or hear a blowing or hissing noise, quickly leave the building and leave the doors open. Call the gas company.		
» Look for electrical system damage. If they see sparks or frayed wires, turn off electricity at the main fuse box.		
» If have to step in water to reach the electric		
» box, call an electrician for advice.	Coordinator - Response & Recovery	Hazel Taffe
14. Check for general sewage and water-line damage in the community.		
15. If you suspect there is such damage, call the NWC company and or PDC.		
16. Advise community not to drink or prepare food with tap water until notified it is safe to do so.		
17. Constantly advise the community:		
 To conserve water and food; 		
» To stay living at their homes if it is safe to do so;		
 To take particular care with hygiene and sanitary practices; 		
» Of measures being taken with respect to provision of food and		





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
water and restoration of public utilities.		
18. Coordinate requests for and offers of assistance through the PEOC.	Coordinator - Response & Recovery	Hazel Taffe
19. Coordinate reconnaissance and damage assessment teams through the PEOC		
20. Ascertain the early requirements for Government assistance in re-establishing the community.		
21. Coordinate the establishment, staffing and management of emergency shelters for sustained use in community.	Coordinator - Response & Recovery	Hazel Taffe
22. Encourage persons affected to stay with friends or family as first options.	Vice Chairman Coordinator - Vulnerability & Risk	Donna Samules-Crossdale
23. Coordinate requests, receipt and distribution of food, clothing and water supplies through the PEOC.	Identification	
24. Assist with the distribution of supplies		
25. Assist with the tracing of missing persons		
26. Assist with needs assessments		
27. Assist in the provision of welfare information to persons affected	Coordinator - Response & Recovery Hazel Taffe	Hazel Taffe
28. Begin to effect minor repairs to critical facilities and clear road ways and drains		
29. Continue to provide feedback and assistance to the community through the PDC and PEOC.		





PHASE 3: RECOVERY

ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
1. Mobilize Community members to assist each other with rehabilitation and reconstruction activities.	Coordinator - Response &	
2. Encourage community members to rebuild bearing in mind mitigation measures (build back better).	Recovery Coordinator – Public Education	Hazel Taffe Rose Thomas
 Mobilize and conduct repairs to critical facilities and infrastructure (Schools, clinic, water supplies and others) 	and Fund Raising	
4. Update PDC on recovery activities by external agencies/departments/organizations.		
5. Monitor progress and ensure deficiencies are reported.		
6. Mobilize CDRM Group to seek assist from NGOs (e.g. Red Cross, Food for the Poor, ADRA and Others) to assist in community recovery initiatives.		
7. Identify and share Lessons Learnt to enhance future preparedness and response activities:	Coordinator - Response & Recovery	Hazel Taffe
» Challenges in responding to incidents?		
» Which systems were overburdened?		
» What resources were lacking (human and physical)?		
» How did the community cope?		
» What areas of the SOPs need to be reconsidered?		
8. Revise SOPs as necessary	Chairman	Paul Bailey





APPENDIX I – FIRE STANDARD OPERATING PROCEDURES

Purpose

The purpose of this Fire SOP is to establish the necessary action steps for an effective and safe response to fires that could potentially affect the community. Fires could result in damage to community infrastructure, and facilities, loss of life and property, and other incidents with varying severity from minimal to catastrophic; depending on the intensity of the fire. The CDRM Group shall work with government organizations, NGOs/CBOs, the private sector and other stakeholders to facilitate the safety of community members. This SOP intends to maintain clearly defined procedures for before, during and after fire events.

Objectives

The concepts and procedures in this SOP are set to:

- » Facilitate coordination among community members and the CDRM Group in preparing for and responding to fires.
- » Ensure a logical and sequenced set of actions for community response.
- » Assign specific tasks to ensure collaboration and execution of activities.

Basic Planning Assumptions

- » At least one major Fire will probably affect the country/community.
- » CDRM Group will remain active and functional.
- » Community members will be responsive to CDRM Group programmes, initiatives, warnings and other information.
- » There is commitment and support from agencies and departments of government to assist the community.
- » The community is willing to utilize its resources in preparedness and response.
- » CDRM Group will train and establish Community Emergency Response Team(s) (CERTs) to reduce the danger to which the community is exposed in the event of a bush or building fire.
- » CDRM actively ensure members of their community are aware of possible hazards and how to prevent, mitigate and prepare in the event of likely hazards, including fires.
- » The Jamaica Fire Brigade is recognized as the formal First Responder to fires as part of the National Emergency Response Matrix.





Concept of Operations

These SOPs are designed to establish a concept of operations spanning the direction and control of the disaster from initial monitoring through post-disaster response, recovery, and mitigation. All activities are community-driven, with technical assistance provided by agencies, departments, NGOs and the private sector as necessary.

Procedures will be categorized into the following phases:

- Phase 1: Prevention, Mitigation and Preparedness
- Phase 2 (a): Event and Event Response Building Fires (Homes, Small Businesses)
- Phase 2 (b): Event and Event Response Bush Fires
- Phase 3: Recovery





Glossary of terms

TERM	MEANING
ALL CLEAR	An All Clear is a statement issued by the pertinent authority (Fire Department, Police – if the fire department is not present) when a threat has passed. The All Clear , for Fire – is when the fire has been fully extinguished and buildings and property are no longer threatened.
EMERGENCY OPERATIONS CENTRE (EOC)	A multi-agency coordination centre that provides support and coordination to the on-scene responders.
INCIDENT	A natural or human-induced event that requires the action of emergency services to protect lives, goods and the environment.
FIRE	Combustion or Fire is a chemical reaction or series of reactions in which heat and light are evolved.
FACTORS NECESSARY FOR COMBUSTION	HEAT, FUEL and OXYGEN
WAYS IN WHICH HEAT CAN BE CREATED	OPEN FLAME, SPARKS, ARCS, FRICTION, CHEMICAL REACTION, ELECTRICAL
FUEL	Fuels are found in all three (3) stages of matter: SOLIDS: Cloth, Paper, Wood, Coal LIQUIDS: Gasoline, Kerosene, Alcohol, Paint GASES: Methane, Butane, Propane, Acetylene
OXYGEN	21.2% of the earth's atmosphere is oxygen, but only 15% is needed for combustion.
BUSH FIRE	A fire in the bush or a forest area spreads quickly and goes out of control easily.
EMERGENCY EVACUATION	The immediate and rapid movement of people away from the threat or actual occurrence of a hazard.
EXTINGUISH	To put out a flame or fire; to cause a flame or fire to cease to burn or shine.
R.A.C.E	Acronym for R escue, A lert, C ontain (confine fire and smoke) and E vacuate or E xtinguish.
P.A.S.S.	Acronym for P ull, A im, S queeze, S weep (at base of fire). Use to remind users of fire extinguishers how to properly use a CO ₂ , Dry Powder or Water fire extinguisher.





Operating procedures

PHASE 1: Prevention and Preparedness

Prevention, Mitigation and Preparedness activities as mentioned in these SOPs are specific actions to be taken by respective CDRM Coordinators and their teams (drafted support persons) to ensure proper planning and coordination for a **fire** emergency. Coordinators should utilize other information and measures highlighted in the CDRM Plan to as a guide for other actions.

	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
1.	Continue to support and promote public information and awareness programmes.	Coordinator – Public Education	Rose Thomas
2.	Sensitize special needs population.	and Fund Raising	
3.	Organize how special needs population will be evacuated and transportation required.	Coordinator – Preparedness	Marvin Bailey
4.	Put arrangements in place to have vehicles to be used in evacuation fueled with petrol.		
5.	Ensure that appropriate fire extinguishing materials are in place in community center and shelters.		
6.	Ensure that First Aid Kits and Rescue equipment are stocked and in good condition for use in the event of an emergency.	Coordinator - Response & Recovery	Hazel Taffe
7.	Send a reminder/update to the Fire Brigade of the evacuation route for the community. Do a walk through if possible.	Coordinator – Preparedness	Marvin Bailey
8.	Sensitization of residents on fire safety to be conducted on a yearly basis.	Coordinator – Public Education and Fund Raising	Rose Thomas
9.	Identify areas in the community where high potential for infrastructure/property damages.	Coordinator - Vulnerability & Risk Identification	l'Rennie Richards





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
10. Ensure DRM teams are aware of all high-risk locations in the community.		
11. Prepare areas for sheltering persons in need.		
12. Re-engage community volunteers to provide assistance in shelters and other areas. Consult with PDC and Fire Department for facilitating training or refresher courses.	Coordinator – Preparedness	Marvin Bailey
13. Ensure new developments are assessed and relevant measures put in place to safeguard community.	Coordinator - Prevention & Mitigation	Paul Bailey
14. Organize mitigation and prevent projects and work days with technical guidance from relevant agencies (with the help of the PDC and Fire Departments.		
15. Meet and assess the community's state of preparedness for a fire.	Chairman	
16. Conduct Fire Drills at least once yearly.		Paul Bailey





	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
17. P >> >> >>	ersonal for families and businesses: Make sure your family goes over the family disaster plan. All family members should know their evacuation plan. Store important documents in fireproof box (where possible) or safe.		
	 ✓ For new buildings or building extensions; and ✓ For older buildings every 2-3 years; annually where rodents and termites are prevalent or where houses are located by the sea or where corrosion can take place. 	Coordinator – Preparedness Coordinator - Response & Recovery Coordinator – Public Education	Marvin Bailey Hazel Taffe
»	Actively practice fire safety when cooking and in use of matches or flammable material, in monitoring children, when smoking, use of electrics and the wiring of buildings, etc.	and Fund Raising	Rose Thomas
>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	Insure house/building, contents and other assets, where possible.		
»	Have a business continuity plan (businesses).		
»	Employees / Family members should know exit routes and what to do in case there is a fire. (Have regular drills).		





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
 18. Protecting the community (from bush fires): Trim dead or weak branches from trees. Keep yards free of debris. Avoid open burning, especially dry season. Remove all dead limbs, needles and debris from gutters. Build fires away from nearby trees or bushes, always have a way to extinguish this fire. Monitor all fires while they are burning. Prune all branches around to a height of 8-10 feet. Ensure trees adjacent to buildings are free of dead or dying wood and moss. 	Coordinator - Prevention & Mitigation Coordinator – Preparedness	Paul Bailey Marvin Bailey
 19. Protecting the community (businesses): » Install smoke detectors within Business and institutions. » Exit signs must be fitted to all exit doors. Signs must be written in bold red and white background. » All buildings must have proper exits, evacuation routes and emergency assembly areas. » Encourage the usage of fire-resistant materials when building, renovating, or retrofitting structures. » Encourage the storage of combustible/ flammable materials in approved safety containers and keep away from home. 	Coordinator - Prevention & Mitigation Coordinator – Preparedness	Paul Bailey Marvin Bailey





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
 20. Ensure each response team are equipped with the following: » Knowledge and drills for recognizing types of fire and assessment for response; » Fire Brigade telephone number and means of emergency telecommunications (mobile phone, radio – if necessary); » Sand box and shovels; » Pails and water source (drum); » Fire Extinguisher (if possible); » First Aid kit. 	Coordinator - Prevention & Mitigation Coordinator – Preparedness	Paul Bailey Marvin Bailey
21. Obtain local building codes and weed abatement ordinances for buildings near wooded areas.	Chairman Coordinator – Preparedness	Paul Bailey Marvin Bailey
 22. Brief community of activation of evacuation and persons to be evacuated: » Review evacuation routes and gather your disaster supply kit in case you are instructed to evacuate. » Communicate assembly points and deploy marshals. » Make contact with shelter managers to receive evacuees. » Inform PDC of actions to be taken. » All electricity and gas supplies should be shut-down when closing businesses or evacuating homes. » Ensure the Elderly and physically challenged to be evacuated and make special arrangement for them. 	Coordinator - Response & Recovery	Hazel Taffe





During the fire

REMEMBER: activities for response during a fire can be done at the same time, particularly where a team approach is taken. Studies have shown that persons who practice together are more likely to respond better than those who don't practice at all or irregularly. DRILLS SAVE LIVES

- **R RESCUE** (the elderly, children, physically or mentally disabled)
- A ALARM/ASSESS (simultaneous to immediate rescue)
- C CORDON/CONFINE (the area under fire, if possible)
- E EXTINGUISH (the fire) OR EVACUATE (persons at risk, if safe to the rescuer)

ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
Call out ALARM - If trapped in a fire you cannot out run it. Once a fire is detected immediately call the JPS, Police and Fire Departme Coordinator - Response & Recovery.	Coordinator - Response & Recovery	Hazel Taffe





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
ACTIVITIES Once an ALARM is activated: At location of fire (buildings): Building should be immediately evacuated. Do not enter a burning building. Ensure that persons who need assistance while evacuating are assisted (Elderly, Physically Challenge, Children). Assess the situation. Establish safety zone. If a fire is small and its safe attempt to extinguish with a fire extinguisher. Never allow fire to come between you and the exit path. While evacuating touch closed doors with back of hand before opening. If door is hot or if smoke is visible do not attempt to open.	POSITION Coordinator - Response & Recovery	PERSON(S) RESPONSIBLE
 Close gas valves and turn off electricity at the main fuse box. Remove combustible items (outdoor furniture, umbrellas, tarp coverings, and firewood) from around the home. Place valuables that will not be damaged by water, in a pool or pond – if necessary. 		Hazel Taffe
At location of fire (bush):		
 » Quickly assess the situation – wind direction & speed, likely path & combustion, risks involved. » Ensure that persons who need assistance while evacuating is assisted (Elderly, Physically Challenge, Children). » If a fire is small and its safe attempt to extinguish with a fire extinguisher, water or sand. May consider beating the fire, if safe. » Never allow fire to come between you and the exit path. » Cut off path of fire to homes and farms, if safe to do so. » Remove animals and items that can be moved to safety, if necessary. 		





	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
	Around the perimeter of the fire:		
	» Cordon the area and keep persons at a safe distance.		
	» Ensure persons do not enter a burning building.		
	» Keep the scene calm. Ensure the comfort/safety of the distraught.		
	On exit of the building, at the assembly point or safety zone:		
	 Check for deaths, injuries and persons needing emergency assistance. Attend to injured persons. Seek assistance for those who require serious medical intervention. Conduct first aid and search and rescue operations as necessary Conduct a roll call when students/ staff are assembled (institutions & businesses). Have information on the missing and injured available for emergency personnel (fire, EMS or police) 	Coordinator - Response & Recovery	Hazel Taffe
2.	Remind community persons to have contact numbers for the Fire Department and Community Emergency Preparedness and Response Team.	Coordinator – Preparedness	Marvin Bailey





After a fire

	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
1.	Constantly advise the community that after fire persons should not re-enter building until authorities say it is safe to do so. Confirm All Clear.		
2.	 Conduct Damage & Needs Assessment a. Deploy community damage survey teams or assessors (with Municipal Corporation if more than 3 homes/properties are affected). b. Deploy community response teams to check on vulnerable (elderly and physically challenged) and critical facilities. c. Check for associated deaths, injuries and persons needing emergency or psychosocial assistance. d. Conduct first aid and search and rescue operations as necessary. e. Notify emergency personnel of additional critical/emergency cases. 		
3.	Provide initial damage survey results and needs assessment for the community to Fire Department, Municipal Corporation and other relevant authority (e.g. Social Worker from Ministry of Labour and Social Security)	Coordinator - Response & Recovery	Hazel Taffe
4.	Encourage persons affected to stay with friends or family as first options after a fire.		
5.	Coordinate the establishment, staffing and management of emergency shelters for sustained use in community.		





	ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
6.	 Coordinate requests for and offers of assistance through the Municipal Corporation. » Coordinate requests, receipt and distribution of food, clothing and water supplies through the PEOC. » Assist with the distribution of supplies. » Assist with needs assessments. » Assist in the provision of welfare information to persons affected. 		
7.	Assist with the tracing of missing persons.		
8.	Begin to effect minor repairs to critical facilities and clear road ways and public spaces, if affected.		
9.	Continue to provide feedback and assistance to the community through the PDC and PEOC.		
10	Mobilize Community members to assist each other with rehabilitation and reconstruction activities.	Coordinator - Response & Recovery	Hazel Taffe
11	Encourage community members to rebuild bearing in mind mitigation measures (build back better).		
12	Mobilize and conduct repairs to critical facilities and infrastructure (Schools, clinic, water supplies and others), if affected.		
13	Update PDC on recovery activities by external agencies/departments/organizations.		
14	. Monitor progress and ensure deficiencies are reported.	-	
15	Mobilize CDRM Group to seek assist from NGOs (e.g. Red Cross, Food for the Poor, ADRA and Others) to assist in community recovery initiatives, as required.		





ACTIVITIES	POSITION	PERSON(S) RESPONSIBLE
 After Action Assessment (Community & community/agency) – to identify and share <i>lessons learnt</i> to improve future preparedness and response activities (de-briefing of incident): 		
» Challenges in responding to incidents	Coordinator - Response &	Hazel Taffe
» Which systems were overburdened?	Recovery	
» What resources were lacking (human and physical)?		
» How did the community cope?		
» What areas of the SOPs need to be reconsidered?		
17. Revise SOPs as necessary.	Chairman	Paul Bailey




APPENDIX J – TERMS OF REFERENCE CDRM GROUP

CDRM Group

The Community Disaster Risk Management (CDRM) Group is the arm of the community which has taken on the role of local level advocacy and planning for Disaster Risk Reduction activities at the community level. All matters relating to adaptation, prevention, mitigation, preparedness, response and recovery are, therefore, the preview of the group. They shall be the team that leads the development of Community DRM Plans and links directly with the Parish Disaster Committee and other local level agencies/NGOs regarding disaster management.

Executive Membership

- » Chairman
- » Vice-Chairman
- » Secretary
- » Treasurer
- » Assistant Secretary
- » Coordinator Public Education and Fundraising
- » Coordinator Vulnerability and Risk Identification
- » Coordinator Prevention, Mitigation and Adaptation
- » Coordinator Response and Recovery
- » Coordinator Preparedness

The executive membership of the CDRM Group may assume that of an existing Community Based Organization (CBO) Structure. The coordinators outlined above must be made part of any existing structure to be used.





Community Organization with responsibility for CDRM

- » Any existing CBO that is active should be made part of the CDRM Group.
- » Where there is no existing CBO, the community should form the executive membership of the CDRM Group from reliable individuals with leadership qualities in the community.
- » Individuals who are not members of an existing CBO may be made part of the DRM Group. These individuals may be:
 - Assigned/ appointed as coordinators only, where there is an active CBO.
 - Assigned/ appointed as any part of the executive membership where there is no active CBO.

Naming the CDRM Group

- » The CDRM Group will assume the name of the existing CBO that will carry out the functions of the group OR the name of the existing Zonal Committee.
- » Where no CBO exists, the name may be decided by the community leadership.
- » The CDRM tag should remain to indicate.

Leadership of the CDRM Group

The leadership of the group will be the same as that of the existing CBO (this includes the already assigned individuals). Where there is no existing CBO, the persons engaged by the facilitation team and who have shown interest should be encouraged to assume responsibilities. The leadership, specifically President and Vice President, should maintain regular dialogue with the Parish Disaster Coordinator for guidance and support.

Frequency of CDRM Meetings

- » The group should meet officially on an average bi-monthly (every 2 months).
- » However, for existing groups, they should include DRM as an agenda item at the regular CBO (e.g., Citizens Association) or Zonal Meetings.
- » Special meetings, briefings, and workshop sessions may be called by the executive as is necessary, inviting stakeholders as appropriate.





Funding of CDRM Group and Activities

The group is expected to mobilize the support of community stakeholders to provide funding for programmes and activities. Other sources of funding will include:

- » Fundraising activities.
- » Proposal writing to the private sector and donor agencies.
- » Donations or grants.
- » Parish Disaster Committee.
- » ODPEM.
- » Government entities with specific mandates.

Interaction with Local Authorities and the Parish Disaster Committee (PDC)

- » The President or Vice President of the CDRM Group must attend the PDC Meetings, as invited by the Parish Disaster Coordinator.
- » The group must provide the Parish Disaster Coordinator with DRM related information that will support community and parish interventions.
- The Parish Disaster Coordinator should be invited to attend CDRM Group Meetings on occasions and are deemed an ex- officio member of the CDRM Group.

Interact with ODPEM and other technical agencies/departments (local or national)

ODPEM:

- » ODPEM is to provide the CDRM Group with technical advice for the development and review of the CDRM Plan through the Parish Disaster Coordinator.
- » ODPEM is to provide the community with disaster-related information through the Parish Disaster Coordinator.
- » Any request for assistance or information by the CDRM Group must be channelled through the respective Parish Disaster Coordinator.





Other Technical Agencies:

- Any official request or engagement of agencies or departments of government regarding training, disaster-related information or programming must be channelled through the Parish Coordinator.
- » CDRM Groups may, however, formally write to agencies/departments regarding the respective agency's functions or execution of the same concerning the community.

Interaction with Councillors, Members of Parliament and other Political Representatives

- » Political representatives must be seen as a significant resource to the CDRM Groups and communities.
- » Sharing of issues, concerns and needs of the community or CDRM Group may be facilitated through representation at the Parish Disaster Committee level.
- » Initial engagement of political representatives may also be channelled through the Parish Disaster Coordinator.
- The CDRM Group, after formal introduction through the Parish Disaster Committee, may make direct contact with political representatives regarding issues of the community. It is recommended that formal (written) communication be made as far as possible.

Interaction with Private Sector and other NGOs/CBOs

- » CDRM Group should recognize existing private sector organizations and NGOs/CBOs within the community as critical stakeholders.
- » Parish Disaster Coordinators should be approached to make initial contacts with these groupings on behave of the CDRM Group.
- » CDRM Group may maintain contact (formally and informally), however, it is encouraged that the CDRM Group executive discusses with representatives from these groups (private sector, NGOs/CBOs) the possibilities of partnerships (mutual help).

Recording keeping by CDRM Group

- » Minutes/notes of all meetings of the group should be formally kept in a safe place.
- » Correspondence, financials and other documents regarding the CDRM Group or community should be in a safe and secure place.





- » A copy of the CDRM Plan must be in the possession of the Parish Council. A copy should also be in any dedicated facility used for meetings and planning.
- » General documents kept by the group such as minutes, brochures, financial records and other documents should be held by the President, Secretary or any other executive appointed by the group, where a dedicated facility does not exist.

Wider Community Involvement

- » CDRM team should constantly engage the wider community through meetings, forums, brochures, flyers and pamphlets.
- » Views, concerns, and issues of the community regarding disaster matters must be discussed within the group and possible solutions identified.
- » Public education and awareness should be integral for community involvement.
- » CDRM should establish creative initiatives for garnering community support and involvement.

Roles and Functions of the Executive Membership for DRM

Chairman: Assume similar duties as outlined in the existing CBO or Zonal Committee.
Vice-Chairman: Assume similar duties as outlined in the existing CBO or Zonal Committee.
Secretary: Assume similar duties as outlined in the existing CBO or Zonal Committee.
Treasurer: Assume similar duties as outlined in the existing CBO or Zonal Committee.
Assistant Secretary: Assume similar duties as outlined in the existing CBO or Zonal Committee.

Coordinator – Public Education and Fundraising

- » To develop DRM public education programmes for the schools, churches, and CBOs in the community.
- » To source and distribute Disaster Preparedness brochures and other educational material.
- » To identify Community DRM Training needs and communicate them to the Parish Disaster Coordinator.
- » To work with the PDC and other partners in organizing training programmes in the community.
- » Identify sources of funding for education and training programmes to be conducted.





- » Provide the Parish Disaster Coordinator (through the President) with updates and status reports on the effectiveness of training and public education and awareness programmes.
- » Conduct fundraising initiatives to support community DRM objectives.
- » Facilitate the delivery of risk transfer awareness sessions with national agencies such as the National Health Fund, NIS, etc.

Coordinator – Vulnerability and Risk Identification

- » Identify and assess historical hazard impacts.
- » Conduct research on changing hazard risk trends in the community.
- » Calculate the probability of occurrence of hazard events.
- » Develop and maintain a list of critical facilities at risk.
- » Conduct vulnerability capacity assessments.
- » Prepare vulnerability and risk identification reports to be submitted to the Parish Disaster Coordinator
- » Provide the Prevention, Mitigation and Adaptation Coordinator with information on vulnerability and risks in the community.
- » Evaluate risk assessments, risk management plans, and risk monitoring results as directed and recommend appropriate actions.
- » Ongoing, systematic and consistent observation of hazard-related parameters.
- » Ensure that the data can be located and retrieved by users.
- » Takes lead in vulnerability assessment tasks.
- » Notifying residents of vulnerable areas to disasters via the DRM Group meetings.
- » Estimate expected damage in the event of a disaster.
- » Identify the vulnerable assets of the community and the associated risks.
- » Solicit the support of key community members for the execution of responsibilities, especially the elderly and trained professionals.

Coordinator – Prevention, Mitigation and Adaptation

Duties Related to Mitigation and Adaptation

- » Assess hazard impacts.
- » Identify areas of damage that would require reconstruction to existing codes and regulations.
- » Renew and evaluate existing mitigation plans, emergency plans and strategies.





- » Organize the development of Prevention, Mitigation and Adaptation Action Plans for implementation with the help of the Parish Disaster Coordinator and larger CDRM.
- » Along with Coordinator Public Education and Fundraising, facilitate strategies that will raise awareness of hazard risks and measures to be taken to avoid/reduce the impacts.
- » Recommend appropriate hazard mitigation and adaptation measures for avoiding or reducing the impact of a disaster at the household and community level.
- » Review and evaluate existing hazard mitigation plans and other pertinent information, such as urban renewal, rehabilitation, or master plans.

Duties Related to Prevention

- » To know the main areas of risk and to take steps to prevent hazard impact/exposure or detect any problems as early as possible.
- » To assess training needs and communicate them to the Public Education Coordinator.
- » To ensure good lines of communication with all coordinators.
- » Conduct/facilitate community hazard hunts with the help of the Parish Coordinator and CDRM team.

Coordinator - Response and Recovery

- » The Response Coordinator has primary responsibility for the coordination and contractual management of the emergency response projects/initiatives.
- » Ensure that adequate needs assessments are carried out following good DRM practice.
- » Advice and support where necessary and monitor the response.
- » Recommend relevant and appropriate training where necessary in minimum standards in emergency response.
- » Ensure systems are in place for monitoring and evaluating the impact of the disaster.
- » Take lead in damage assessment and disaster recovery tasks.
- » Plan and organize disaster recovery activities along with the aid of the Parish Disaster Coordinator.
- » Report the status of the disaster recovery activity.
- » Identify acceptable recovery time periods.
- » Establish disaster recovery testing methodologies.
- » Recommend disaster recovery planning and training activities.





- » Provide instructional and informational materials on how to respond during an emergency.
- » Develop and maintain SOPs for emergency/disaster response and recovery with the aid of the PDC.
- » Plan regular exercises to test community plans.
- » Monitor the effectiveness of procedures during evacuation drills and revise the procedures as necessary.
- » Maintain contact with outside sources participating in reciprocal agreements.
- » Ensure that as new equipment, facilities, services, and systems are installed that the disaster response and recovery issues are highlighted and addressed.
- » Maintain contact with outside contingency planning professional organizations and local or regional emergency response groups.
- » Ensure and recommends the establishment of CERTs as appropriate. At least, it should include the following positions:
 - First Aid coordinator and assistants.
 - Initial damage assessment coordinator and assistants.
 - Shelter management coordinator and assistants.
 - o Search and rescue coordinator and assistants.
 - Communication (during the crisis) coordinator and assistants.
 - Evacuation coordinator and assistants.

Coordinator – Preparedness

- » Coordinate the preparation of and update of the preparedness aspects of the community's disaster risk management plan such as the evacuation plans and shelters.
- » Organize, initiate and support drills.
- » Coordinate with community and external stakeholders to ensure the community is prepared for all priority hazards.
- » Make available all information on hazards to the community.
- » Coordinate with the community to ensure families have a family disaster plan.
- » Organize and coordinate the deployment of CERTs and other community volunteers.
- » Coordinate the establishment, staffing and management of emergency shelters.
- » Develop an inventory of the community's resources and ensure they are maintained and replenished as necessary. These include food, welfare items, equipment and personnel.





- » Ensure the community contact list is updated.
- » Ensure that mutual aid agreements are in place and are current to meet the needs of the community.
- » Advocate for the establishment of community early warning or alert systems and mobilize the community to participate in the maintenance of the system..





APPENDIX K – PHOTO GALLERY



Large amounts of debris from the Negro River cover the roadway (top left) and affects a house located in Grove (top centre), Cedar Valley. A roadway in Wilson gap is also affected by landslide (top right).

Source: Damage Assessment Report for Tropical Storm Gustav, Mines and Geology, 2010.



House destroyed by Flooding of the Dry River in Cedar Valley during Hurricane Dennis, 2005.

Source: ODPEM.











Photograph of the hand-drawn community hazard map prepared during the community plan development workshop in Cedar Valley (2021).

