

HURRICANE BERYL

Grenada and St. Vincent & the Grenadines

PAHO



Situation Report # 11 – 29 July 2024



PAHO team and the Ministry of Health Grenada meet with Samaritan's Purse

HIGHLIGHTS

- PAHO specialists in the areas of health response coordination, facilities assessment and vector control arrived in Grenada this week
- PAHO/WHO Representative for Barbados and the Eastern Caribbean Countries, Dr. Amalia Del Riego visited Grenada and St. Vincent and the Grenadines during the week July 15th. The visit aimed to show solidarity and to gain a first-hand assessment of issues on the ground. She toured many health care facilities alongside PAHO staff stationed in each country and deployed Specialists.
- The Health Promotion Unit launched a psychological support initiative to assist shelter residents, particularly children in Carriacou and Petite Martinique. The program “Movies in the shelter” began on Friday 19 July 2024, providing a relaxing and stress-relieving activity. PAHO is extremely proud to partner with Grenada on this very significant initiative.

IN NUMBERS

215,530

Potentially exposed¹

11 Deaths²

30 Injured³

0 Missing⁴

1000

Evacuated⁵

14 Damaged health facilities⁶

1: Country latest census data –, Grenada and St Vincent & the Grenadines.

2,3,4,5: Assessments are still ongoing and what is reported are based on preliminary information.

6: Ministry of Health initial report

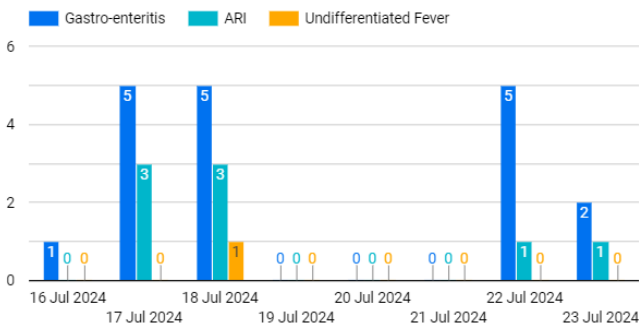
GRENADA AND ST. VINCENT AND THE GRENADINES

- Both countries have been strengthening surveillance for routine and shelters. There continue to be some connectivity issues on the most affected islands. Human resource challenges continue to be one of the areas that impact surveillance.
- Shelter surveillance commenced in both countries despite communication challenges with the generation of weekly reports for the past two weeks. The shelter surveillance bulletin for Grenada has been shared with stakeholders while Saint Vincent and The Grenadines is going through the approval process.
- Both countries have deployed public health nurses and environmental health officers to conduct daily monitoring of the shelters and address the immediate health needs of the population.
- No significant disease trends or outbreaks were detected by the routine or the shelter surveillance system during this period.

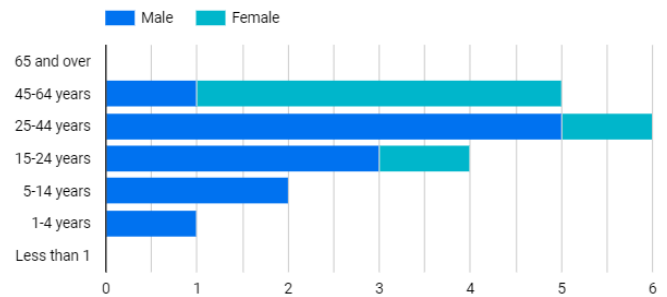
SURVEILLANCE AT THE SHELTERS POST HURRICANE BERYL IN GRENADA ON 23 JULY 2024

Completeness: 100%

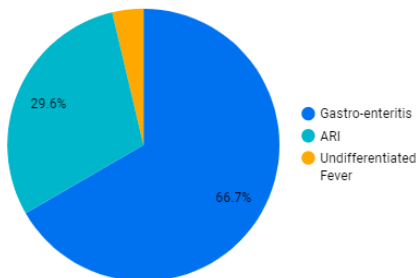
Conditions reported daily



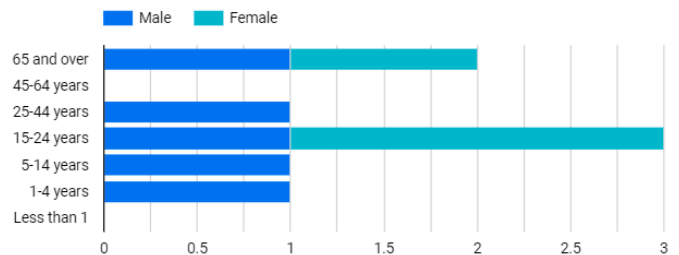
Total Gastroenteritis by Age Group and Sex



Conditions reported



Total ARI by Age Group and Sex



SAINT VINCENT AND THE GRENADINES

- Between 13-18 July 2024, environmental health and WASH assessments of health centres and emergency shelters were conducted on the mainland St. Vincent, Mayreau and Canouan. A total of 26 facilities were assessed.
- The general findings at most facilities highlighted issues with cleaning and maintenance, water safety and the condition of the sanitary facilities. Poor personal hygiene and waste disposal practices were found to be disease risk factors for residents.
- The Environmental Health inspections of residential premises in Mayreau and Canouan were conducted to identify critical environmental health risks. The team remedied mosquito breeding sites and conducted sanitary assessments of water systems, waste management and hygiene practices.
- To reduce the health risks, several recommendations were made including a plan for resolution of the public health risks identified across the mainland and the Grenadines islands including for the shelters. other recommendations included having a scheduled or permanent environmental health presence on the Grenadines Islands and the establishment of event-based surveillance to facilitate prompt response action, particularly for notifiable diseases such as gastroenteritis.



Inspection of water collection in Mayreau



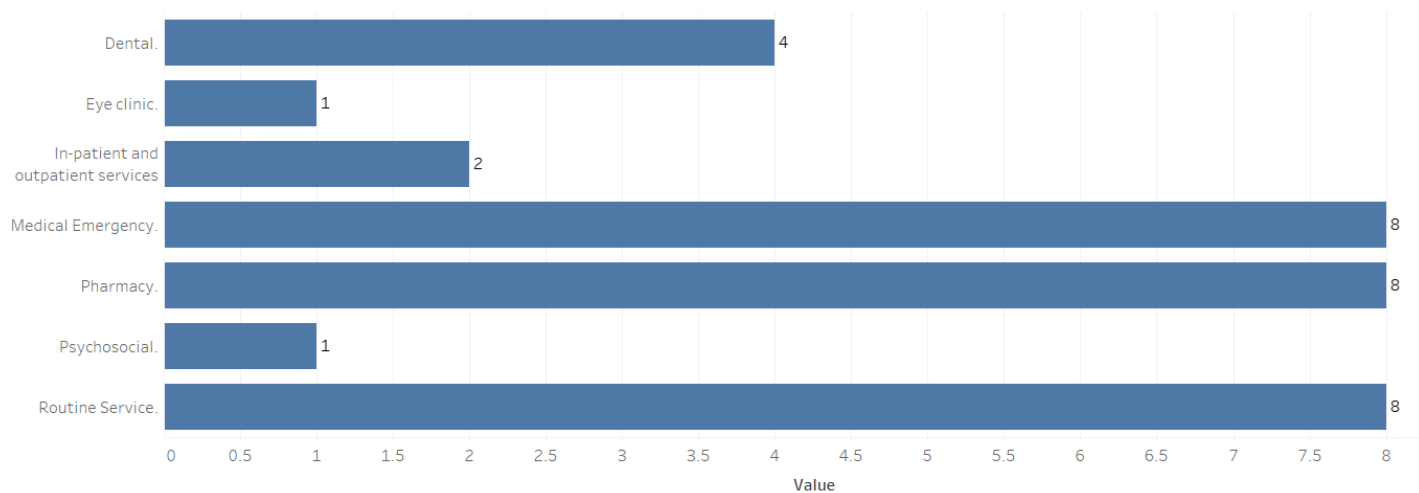
- Mental Health and Psychosocial Support (MHPSS) is a priority focus area of the response with the activation of the MHPSS Technical Working Group (TWG). The MHPSS TWG consist of the Ministry of Health Mental Health Services and Health Security, the Ministry of Education, Student Support Services and the Ministry of National Mobilization with gender, gender affairs, child protection and social protection, the Red Cross, the Social Workers Association, PAHO, UNFPA, UN Women, UNICEF etc. A 4W mapping is being prepared.
- The Ministry of Health, Ministry of National Mobilization and the Ministry of Education are the lead Ministries for MHPSS. The team conducted an MHPSS rapid needs assessment and prioritized specific groups for interventions. The team have been visiting the shelters, doing psychological first aid (PFA), self-care sessions for the HCWs and working with individuals, families and overall groups in identifying needs and communicating these needs to the NEOC for action with the support of relevant partners. A referral pathway was also developed and disseminated to facilitate the referral of persons, especially from the shelters.
- Mental Health and Psychosocial Support (MHPSS) is a priority focus of the response also in Grenada. The MHPSS TWG is not yet activated but PAHO has deployed an MHPSS expert to support the ministry's response. MHPSS is led by the Ministry of Health, the Ministry of Mental Health, and the Ministry of Social and Community Development.

- A rapid MHPSS needs assessment was conducted by the team which led to the identification of target groups and specific interventions. There are community interventions through psychological first aid (PFA) to families and households. The team is also working in the shelters and various identified hotspots for the week. Community working Centers were established, and public education commenced going through the communities with the loudspeakers letting people know that there are psychological services available, and contact information for these services provided, including the helpline. UNICEF completed training on the return to happiness with the Child Protection Authority and the psychological first aid (PFA).

Health Services Assessment in St Vincent and the Grenadines

- A health services assessment of 12 health facilities was conducted to evaluate the disruption of services and the impact. Medical Emergency, Pharmacy and routine services were disrupted at 66.7% (8) health facilities (Ashton Clinic, Biabou HC, Buccament Polyclinic, Byera HC, Calder HC, Canouan Clinic, Mayreau Clinic and Park Hill Clinic).
- Dental Services were affected in four facilities (Ashton Clinic, Buccament Polyclinic, Mayreau Clinic and Park Hill Clinic) while eye clinic and psychosocial services were affected in Buccament Polyclinic.
- Inpatient and outpatient clinics were affected in Chateaubelair Hospital & Clinic and Levi Latham Health Centre.

Number of Health facilities affected by Services, Saint Vincent and The Grenadines



INFRASTRUCTURE

Detailed comprehensive damage assessments of health facilities are being conducted in both countries. Rapid restoration is taking place including installing tarps on roofs, repairing windows and doors, repairs and replacement of air conditioning systems, and the cleaning of facilities.

GRENADA

Of the 41 healthcare facilities, 4 are currently still non-functional but repairs are taking place to facilitate resumption of services.



Clean up at Mt Pleasant Medical Station, Carriacou (Photo: MOH Grenada)



Inspection of galvanized roof sheets in L'esterre Health Centre, Carriacou

Not operational	4	9.76%
Operational	26	63.41%
Operational - electricity but no running water. NAWASA trucking in water	3	7.32%
Operational - no electricity or running water.	1	2.44%
Operational - no electricity or running water. NAWASA trucking in water	7	17.07%
Grand Total	41	100.00%

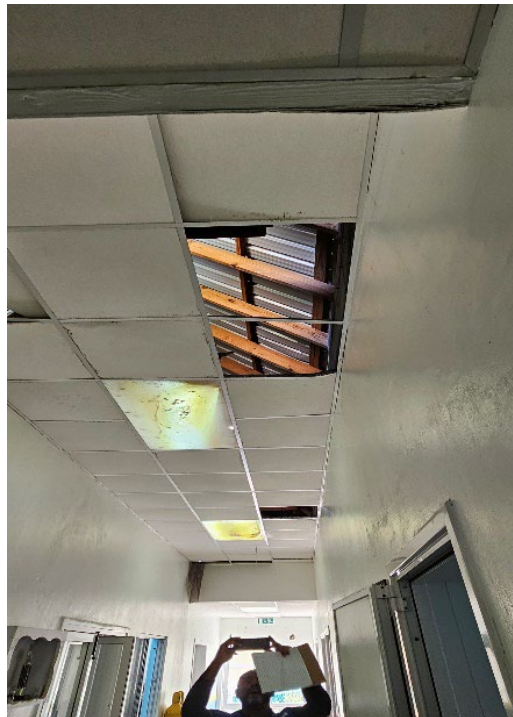


Examination of leaks at the pediatric room in Princess Royal Hospital, Carriacou

ST. VINCENT AND THE GRENADINES

Of the 49 healthcare facilities, 4 remain non-operational. These facilities suffer significant roof damage, ceiling damage, broken windows, and other related damage.

Mayreau



Mayreau Health Centre

Health Facilities assessment in Saint Vincent and The Grenadines

Not Operational	4
Operational	45
Grand Total	49

Island	Status	Facility name	
Grenadines - Canouan	Not Operational	Canouan Clinic	
Grenadines - Union Island	Not Operational	Ashtom Clinic Celine Clouden Hospital	
St. Vincent	Not Operational	Barrouallie Health Centre Calder Health centre Retreat/Vermont Health Centre	
		Operational	Biabou Health Centre Buccament Polyclinic Byera Health Centre Chateaubelair Hospital & Clinic Colonaire Health Centre Diamond Village Health Centre Levi Latham Health Centre Lewis Punnet Home, geriatric home Park hill Clinic

WASH

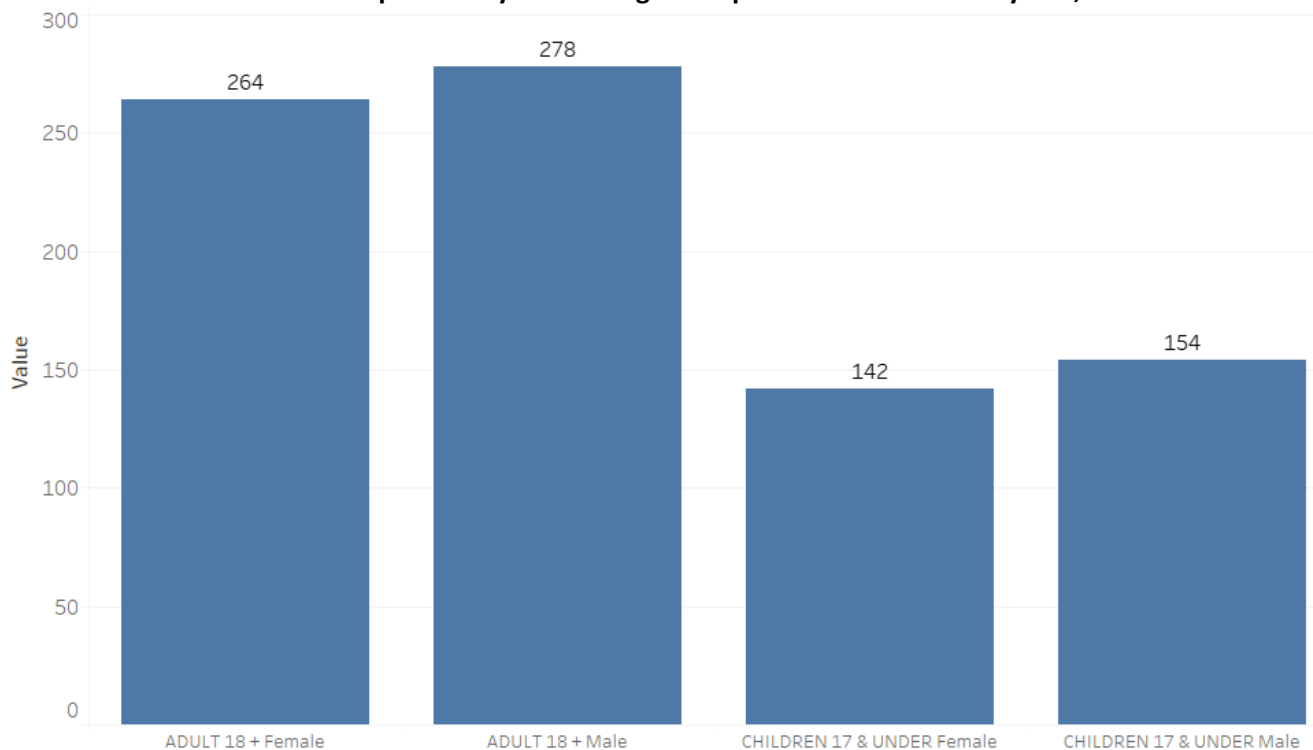
Ongoing efforts to fully restore water and electricity are taking place in both countries. Water disinfectant supplies are distributed to both countries. Support is also being provided to promote safe water use including tips to disinfect water before use.

SHELTER

*Please note the status of the number of people in shelters is constantly changing as occupants arrive and leave. See Appendix 3 for detailed shelter information.

ST. VINCENT AND THE GRENADINES

Number of persons by Sex and Age Group in the Shelters on July 25th, 2024



HEALTH NEEDS

GRENADA AND SAINT VINCENT AND THE GRENADINES

- Adequate health sector waste disposal in Saint Vincent and the Grenadines.
- Psychosocial support for those affected, either directly or indirectly by the hurricane with a special focus on healthcare workers.
- Detailed damage assessment of health facility infrastructure being conducted with preparation costing estimates for the repairs.
- Repairs to damaged health facilities, including water storage rehabilitation and replacement of damaged health supplies and equipment, such as refrigerators for cold chain, vaccines and essential medications.
- Safe shelter/accommodation for health care staff on affected islands.
- Health care staff replacement to relieve overworked colleagues working in harsh conditions
- Replacement of critical medicines, medical supplies, equipment, laboratory reagents, and other health commodities including vaccines
- Increase surveillance, especially in the shelters.
- Provision of food rations and water for health care workers.

For more details, see appendix 2 for the complete list of supplies needed.



RESPONSE

GOVERNMENT RESPONSE

GRENADA:

- Cabinet has suspended travel for all public officers until July 31st, 2024
- The government has centralized all donations/supplies through the National Disaster Management Agency (NaDMA) for distribution; these donations will be tax and duty exempt once sent through this channel.
- State of emergency remains in place for Carriacou and Petite Martinique, curfew is 6:00pm to 6:00am. All persons travelling to Carriacou require approval.
- Health Promotion Unit has set up a 'WhatsApp Health Channel' to allow persons to connect with the Ministry for health information.
- The Health Promotion Unit launched a psychological support initiative to assist shelter residents, particularly children in Carriacou and Petite Martinique. The program "Movies in the shelter" began on Friday 19 July 2024, providing a relaxing and stress-relieving activity. PAHO is extremely proud to partner with Grenada on this very significant initiative.



Flyers for Movies in the Shelter

SAINT VINCENT AND THE GRENADINES:

- The government has prioritized a WASH Hygiene Education program for St Vincent main island with a focus on shelters.
- Public health interventions are ongoing between the islands which include inspections, disinfection and sanitation measures.
- In a meeting with PAHO, the PM indicated that 3 companies had been hired to do heavy-duty cleaning and 100 general workers have also been hired to assist. The Government has allocated 1 million EC dollars to deal with the relief effort inclusive of matters on WASH.
- It was reported that debris cleanup in the southern Grenadines is ongoing.

PAHO RESPONSE

- PAHO continues to conduct health facility and services assessments, including environmental health and MHPSS support.
- Assisting MOHs in strengthening surveillance in shelters in both Grenada and St Vincent and the Grenadines.
- Organized logistics to transport materials and supplies to the affected Islands.
- Procurement and distribution of supplies as per the Ministry of Health needs list.
- PAHO submitted proposals for the Flash Appeals and CERF application for Grenada and St Vincent and the Grenadines.
- PAHO continues to coordinate with a Samaritan's Purse EMT in Carriacou.
- Ongoing coordination with the MOHs (PSs, CMOs, MOH Disaster coordinators and focal points) in countries.

COORDINATION

- The second MHPSS coordination meeting was convened by PAHO and held on July 25, 2024.
- Weekly Health Sector Coordination Meetings continue with the last one held on 25 July 2024.
- PAHO continues to closely coordinate with CDEMA, WFP, IOM and other UN and regional agencies.
- PAHO continues to participate in the CDPG meetings.
- The CMT remains active and continues to follow up with the MOHs as we await further information.
- Contact remains with CDEMA, CARPHA, UN agencies, and other relevant organizations.



APPENDIX – 1

Supplies donated to the Ministry of Health, St. Vincent and the Grenadines as of 7 July 2024

Description	# Quantity
All Steel Economy Shovel Square Mouth	6
Stiff Green Yard Broom 12" With Handle 9.50	8
Garbage Bin Wheeled Green 240L/55Gallon Wheelie Bin	5
3" x 50' Delivery Hose (Blue) with Male & Female Camlocks	4
3" x 14' Suction Hose (Green) with Female Camlock	4
STIHL WP600 Water Pump 3", 212cc, 4.4kw, 264 Gal/Min S/N 951636949 591636967 951636948 951636954	4
SCEP Gas Can 5.3 Gallon (20L) Red	4
Black Floor Squeegee with handle 30"	5
ELITE Lemon Gard Disinfectant Cleaner 4 Litre/1 Gallon ELITE Lemon Gard Disinfectant Cleaner 4 Litre/1 Gallon	39
BOSS PVC Raincoat 48" (2XL) BOSS PVC Raincoat 48" (3XL)	19
Classic Raincoat, Navy - Sz. S - 20 Each Classic Raincoat, Navy - Sz. M - 14 Each Classic Raincoat, Yellow - Sz. M - 10 Each Classic Raincoat, Yellow - Sz. M - 5 Each Classic Raincoat, Black - Sz. L - 30 Each Classic Raincoat, Navy - Sz. XL - 15 Each	94
Tall Water Boot, Green, (Sz.12) (C8) - 15 Pairs Tall Water Boot, Green, (Sz.13) - 10 Pairs	25
Tall Water Boot, White, (Sz.10) (C8) - 15 Pairs	15
Tall Water Boot, White, (Sz. 6) (C8) - 15 Pairs Tall Water Boot, White, (Sz. 7) (C8) - 15 Pairs Tall Water Boot, White, (Sz. 8) (C8) - 15 Pairs Tall Water Boot, White, (Sz. 9) (C8) - 15 Pairs Tall Water Boot, White, (Sz.11) (C8) - 15 Pairs	75
Tarpaulin Ploly Blue 45' x 30' / 13.7 x 9m	20
Tarpaulin Ploly Blue 30' x 24' / 9 x 7.3m	15
Tarpaulin Ploly Blue 24' x 18' / 5.5 x 7.3m OSV	10
Tarpaulin Ploly Blue 18' x 12' / 5.5 x 3.65m	5
KARCHER BP 3 Water Pump Complete with Tank and Pressure Switch 1.0HP 800W 3000L/H (B1) - S/N 010940, 065864, 011606, 011616	4
KARCHER BP 4.9 Water Pump Complete with Tank and Pressure Switch 1.5HP 1100W 4500L/H - S/N 012318, 012371, 012240, 012234, 012243, 012304, 012373, 012372, 012307, 036130, 012365	11
Generator 10,000 Watts Red Dual (Fuel PWRD)	1
650 GL Water Tanks 77.5"x 52"	7
1000 GL Water Tanks 100"x 65.5"	8
650 GL Water Tanks 77.5"x 52"	2
1000 GL Water Tanks 100"x 65.5"	2
Chlorine Drums	12
Aguatabs 33mg	120,000
Aguatabs 67mg	32,000

Water testing kits HACH CN70	6
Generator 6500W	2
Deployment bags	10

Supplies donated to the Ministry of Health, Grenada as of 7 July 2024

Description	# Quantity
Aguatabs 33mg	120,000
Aguatabs 67mg	32,000
Water testing kits HACH CN70	6
Generator 6500W	2
Deployment bags	10
Water testing Kits – To NAWASA (National Water & Sanitation Authority)	2

APPENDIX – 2

List of supplies needed for Grenada

Description	# Quantity
5-gallon Jerry cans (water)	
Adult pampers	
Baby Formula	
Baby pampers & wipes	
Batteries & Battery packs	
Books/coloring books for children	
Chain saw	
Collapsible water bladders (3,000 gallons and bigger)	
Cots & sleeping blankets	
Emergency solar/battery operated radios	
First aid kits	
Flashlights (Solar)	
Fuel cans	
Hand Sanitizers	
Hygiene kits for children	
Hygiene kits for women and men	
Nonperishable food such as milk, mixed vegetables, sardines, corn etc.	
Pillows	
Reflective Vests	
Sanitary Napkins	
Solar lights Generators (5,000 watts)	
Spare bars & chains (18 – 32-inch blades)	
Tarpaulin (100ft, 40x30ft)	
Toiletries	
Water	

List of supplies needed for St. Vincent and the Grenadines

Description	# Quantity
1000 GL Water Tanks 100"x 65.5"	8
1000 GL Water Tanks 100"x 65.5"	2
650 GL Water Tanks 77.5"x 52"	7
650 GL Water Tanks 77.5"x 52"	2
Adult Diapers	1,000 CASES
Battery Operated Lantern/Solar	5,000
Bedding Kits	30,000
Chain Saws and Accessories	100
Children Pampers	1,000 CASES
Chlorine Drums	12
Cots	20,000
Flashlights With Batteries	5,000
Generator	5
Generators	45
Hygiene Kits	30,000
Mattresses	1,500
Mattresses	3,000
Power Banks	200
Rakes	600
Ropes	2,000
Shovels	5,000
Tarpaulins	8,000
Tarpaulins	3,000
Tarpaulins	8,000
Water Jugs	30,000
Wheel Borrows	600

APPENDIX – 3

St. Vincent and the Grenadines

Name of Shelter	Location	Adult 18+		Children 17 & under		TOTAL
		Male	Female	Male	Female	
Apostolic Faith Mission Church	Questelles	3	2	0	0	5
Argyle Government School	Argyle	12	11	3	3	29
Barrouallie Emergency Shelter	Barroualie	6	3	2	1	12
Belmont Government School *	Belmont	8	5	3	7	23
Brighton Methodist School	Brighton	9	7	3	5	24
Buccament Bay Secondary School	Buccament	6	6	5	3	20
Calder Seventh Day Adventist Church	Calder	6	2	0	0	8
Calliaqua Anglican School*	Calliaqua	11	8	6	5	30
Calliaqua Town Hall*	Calliaqua	5	4	2	5	16
Campden Park (Bethel) Secondary School	Campden Park	9	5	0	4	18
Chateaubelair NTCOG	Chateaubelair	1	2	0	4	7
Chester Cottage Community Centre	Chester Cottage	4	4	4	5	17
Church of Ascension - Anglican Church	Sion Hill	6	8	6	3	23
Clare Valley Community Centre	Clare Valley	5	5	5	2	17
COG Worldwide Mission Pentecostal	Redemption Sharpes	6	5	3	2	21
Diamond Government School	Diamonds	4	3		1	8
Dorsetshire Hill Evangelical Church	Dorsetshire Hill	4	2	1	1	8
Dr. J.P. Eustace Memorial School - Edinboro *	Edinboro	22	30	18	10	80
Evesham Learning Resource Centre	Evesham	2	4	0	0	6
Fair Hall Primary School	Fair Hall	19	14	10	8	51
Georgetown Secondary School	Georgetown	6	6	3	3	18
Golden Grove Activity Centre	Fitz Hughes	0	1	1	3	5
Golden Years Activity Centre	Buccament	0	0	1	0	1
Kingstown Government School *	Stoney Ground	27	24	17	8	76
Langley Park Government School	Langley Park	4	4	5	1	14
Layout Grace and Truth Hall	Layout	2	8	1	5	16
Lowmans Leeward Anglican Primary School	Lowmans Leeward	7	10	7	6	30
New Prospect Primary School	Simon	4	5	1	1	11
New Testament Church - Lodge Village	Lodge Village	0	3	0	1	4
Park Hill Government School	Park Hill	1	8	7	5	21
Petit Bordel Secondary School*	Petit Bordel	5	6	3	5	19
Rillan Hill Community Centre	Rillan Hill	3	4	1	1	9
Rose Hall Community Centre	Rose Hall	5	11	7	6	29
Sion Hill Government School	Sion Hill	7	10	10	8	35
South Leeward Learning Resource Centre	Questelles	5	10	3	2	20

Name of Shelter	Location	Adult 18+		Children 17 & under		TOTAL
		Male	Female	Male	Female	
Troumaca Government School	Troumaca	7	3	5	2	17
Total Formal Shelters		231	243	143	126	748
GRENADINES						
Bequia Anglican Primary School	Bequia	22	12	6	13	53
Canouan Adventist Church	Canouan					27
Canouan Anglican Church	Canouan					13
Canouan Anglican Church Rectory	Canouan					12
Canouan Catholiic CHurch	Canouan					11
Canouan Government School	Canouan					46
Clifton Pre School - New	Union Island					60
Learning Resource Centre – Ashton	Union Island					43
Mayreau Government School	Canouan					33
Wells of Living Water Church	Canouan					3
Total Grenadines Shelters		22	12	6	13	301
INFORMAL SHELTERS						
Chapmans Community Centre		4				4
Choppins Community Centre		2	6	3		12
Mayreau Hard court	Mayreau					11
Ottley Hall SDA		6	3	3		15
Pharmacy - Canouan	Canouan					7
The Admin Building - Canouan	Canouan					14
Total informal Shelters		12	9	6	4	63

Grenada – Carriacou shelters – last updated 20 July 2024

Location	Status	No of Shelterees
Bishop's College 12.482352, 61.453986	Official, active	11
Dover Govt School Library 12.505395, 61.431272	Official, active	14
Hillsborough Govt Primary School 12.484725, 61.452968	Official, active	30
Bogles Community Centre 12.502601, 61.449016	Closed	
Harvey Vale Govt 12.45696, 61.474806	Official, active	23
Our Lady of Rosary Catholic School 12.472135, 61.4799741	Official, active	20
Mt Pleasant Govt 12.478467, 61.434604	Official, Closed	6
St Thomas Aquina Govt	Official, active.	25
Windward Fish Market 12.507577, 61.428889	Active pop-up	22
Lauriston Mini Stadium 12.47467, 61.475709	Active pop-up	20
Belair 12.493938, 61.441341	Active popup	17
Belair 12.492068, 61.442147	Closed	
Mt Pleasant 12.486008, 61.431597	Active popup	30
Lauriston 12.473725, 61.468019	Active popup	12
Lauriston 12.474389, 61.470734	Active popup	10
Six Roads 12.470305, 61.457365	Active popup	4
Brunswick 12.477432, 61.460206	Closed	
Sunset Beach 12.482236, 61.45877	Closed	
Hillsborough	Closed	
L'Esterre 12.471156, 61.481811	Active popup	7
Mt. Pleasant 12.478467, 61.434604	Active popup	6
Craigston 12.507044, 61.433337	Active popup	5
Dover 12.49804, 61.446643	Active pop-up	19
L'Esterre 12.471047, 61.481622	Active popup	7

Location	Status	No of Shelterees
L'Esterre 12.471403, 61.481787	Active popup	11
NIS Hill 12.470647, 61.466937	Active popup	6
Six Roads 12.470153, 61.457605	Active popup	3
Lauriston	Active popup	4
Six Roads 12.467788, 61.460819	Active popup	7
Top Hill 12.478535, 61.445332	Active popup	4
Mt. Desire 12.470524, 61.456647	Active popup	3
Lauriston 12.471775, 61.472729	Active popup	9
Pond, L'Esterre 12.469355, 61.487747	Active popup	10
Bayaleau 12.500762, 61.422958	Active popup	4
Limlet 12.502649, 61.424941	Active popup	6

APPENDIX – 4

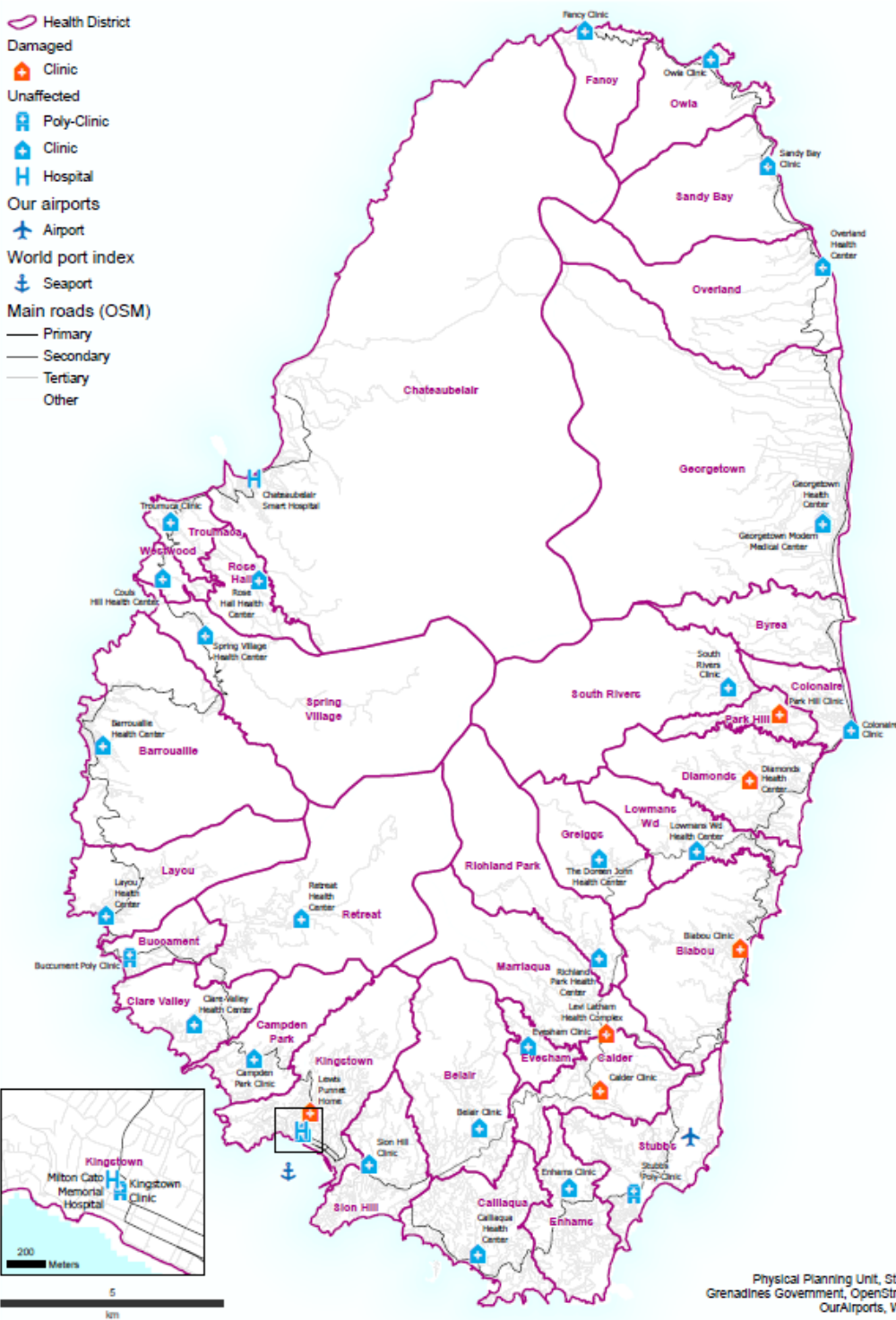
Status maps of healthcare facilities in Grenada and St. Vincent & the Grenadines



St Vincent & Grenadines: Hurricane Beryl
St Vincent Health Facilities and Districts

MA016 v01

- Health District
- Damaged**
- Clinic
- Unaffected**
- Poly-Clinic
- Clinic
- Hospital
- Our airports**
- Airport
- World port index**
- Seaport
- Main roads (OSM)**
- Primary
- Secondary
- Tertiary
- Other



Data Source
Physical Planning Unit, St Vincent and the Grenadines Government, OpenStreetMap, GADM, OurAirports, World Port Index.

Map created by MapAction (06/07/2024)

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations or MapAction.



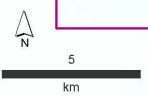
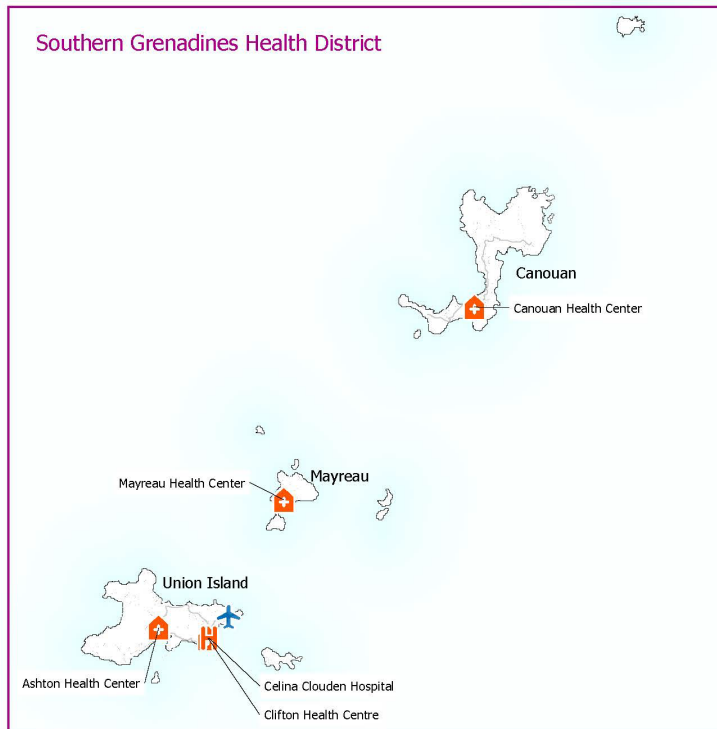
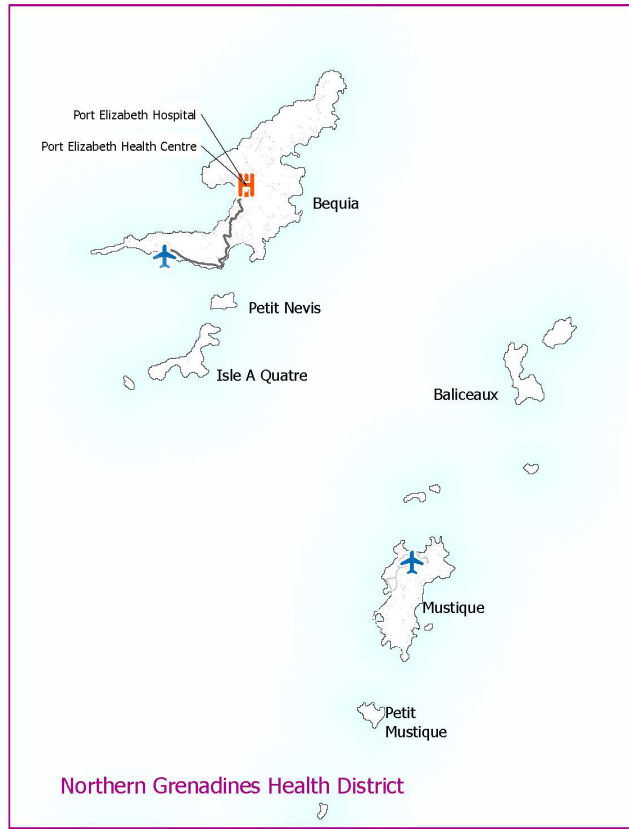
Health Facility

Damaged

- Clinic
- Hospital
- Airport
- Seaport

Main roads (OSM)

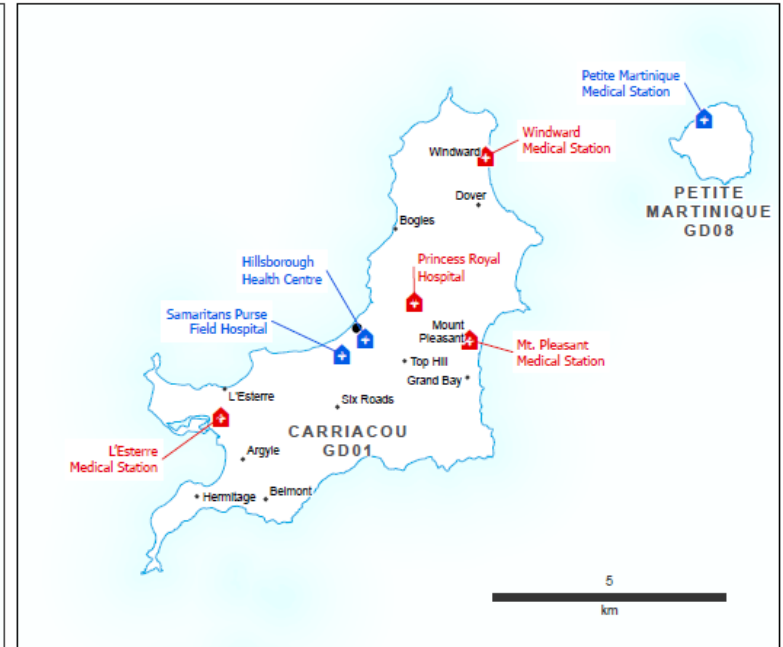
- Primary
- Secondary
- Tertiary
- Other



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Map created by MapAction (11/07/2024)



- Health Facilities**
- Closed
 - Open
- Settlement**
- Capital
 - Town
 - Village
- Boundary**
- Parish

Health Facilities on Grenada and Carriacou based on data from Pan American Health Organisation (PAHO), dated 8 July 2024.

Data Sources
Pan American Health Organisation, OperStreetMap.GeoChis

Map created by MapAction (09/07/2024)

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Supported by German Federal Foreign Office