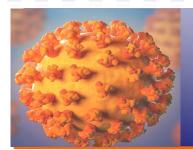
# tats news



# **Special Topic Statistical Bulletin -**

Issue 25, 11 September 2020

The Special Topic Statistical Bulletin on COVID 19 in CARICOM Countries Issue 25, provides an update of the trajectory of the COVID-19 in the CARICOM Region up to 11 September 2020. The Bulletin provides information on the pattern of the disease of the total number of confirmed cases, new cases and deaths for each country and the total for CARICOM. The data are preliminary and will be adjusted as more reliable data are made available. This Issue continues to explore graphically the movement in the curves for the number of confirmed cases to deduce whether they are flattening or expanding upwards as a reflection of the transmission of the virus. The Section, What do we learn from the Data? is updated. A summary Table 1A by country is provided to complement the summaries in Tables 1, 4 and 5. The Projections are compared with the actual values for this reporting period. In general, these projections may be far removed from the reality of the situations in countries and may not depict the actual outcomes. Limited data are available on Sex and by Mode of Transmission of the virus. The Member States, Jamaica and Trinidad and Tobago have declared that there is Community spread of the virus. Monitoring of the Mode of Transmission can assist in contact tracing to overcome the pandemic. The advent of Community spread, and the repatriation of nationals in a few countries and Local Transmission are reflected in increases in confirmed cases in the respective countries as depicted in the Charts on new and confirmed cases. The trends in the data on testing continue to be critical to tracking the pandemic. The primary approach to sourcing the data continues to be web-scraping of information from official sources of countries. Please review the back issues for other key explanations about the data.

# Situation at a Glance





		AU	GUST 2	020				
Sun	Mon.	Tues.	Wed.	Thur.	Fri.	Sat.		
2 <sup>nd</sup> 12,425	3 <sup>rd</sup> 12,529	4 <sup>th</sup> 12,753	5 <sup>th</sup> 12,934	6 <sup>th</sup> 13,112	7 <sup>th</sup> 13,436	••••		
	SEPTEMBER 2020							
		8 <sup>th</sup> 25,642	9 <sup>th</sup> 26,165	10 <sup>th</sup> 26,610		y, 11 <sup>th</sup> 041		

#### **Doubling Rate With Haiti**

Total number of confirmed cases increased by

13,605

# **Doubling Rate Without Haiti**

**Fotal number of confirmed** cases increased by

# Total number of deaths increased by 290 in 34 days (8 August - 11 September) at a rate of $\bar{2.00}$

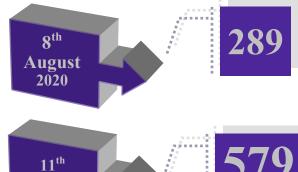




TABLE 1: SUMMARY ALL COUNTRIES -NUMBER OF CONFIRMED CASES, NEW CASES AND DEATHS - 1 AUGUST – 11 SEPTEMBER 2020

	No. of Confirmed		
Date	Cases	No. of New Cases	No. of Deaths
01-Aug	12174	138	265
02-Aug	12425	251	273
03-Aug	12529	104	273
04-Aug	12753	224	275
05-Aug	12934	181	280
06-Aug	13112	178	282
07-Aug	13436	324	283
08-Aug	13721	285	289
09-Aug	13901	180	294
10-Aug	14104	203	298
11-Aug	14343	239	307
12-Aug	14747	404	316
13-Aug	15116	369	317
14-Aug	15355	239	323
15-Aug	15842	487	328
16-Aug	16109	267	335
17-Aug	16285	176	340
18-Aug	16726	441	349
19-Aug	17152	426	354
20-Aug	17609	457	359
21-Aug	18069	460	367
22-Aug	18508	439	372
23-Aug	18841	333	389
24-Aug	19191	350	398
25-Aug	19646	455	404
26-Aug	20120	474	408
27-Aug	20571	451	419
28-Aug	21005	434	427
29-Aug	21508	503	436
30-Aug	22019	511	440
31-Aug	22371	352	445
01-Sep	22896	525	466
02-Sep	23385	489	475
03-Sep	23742	357	490
04-Sep	24099	357	507
05-Sep	24549	450	516
06-Sep	24816	267	533
07-Sep	25115	299	545
08-Sep	25642	527	547
09-Sep	26165	523	553
10-Sep	26610	445	565
11-Sep	27041	431	579

**Note:** The Number of Confirmed Cases and the Number of Deaths are <u>cumulative values</u> while the Number of New Cases is not cumulative and reflects the <u>daily</u> number of cases. Please see Issue 10 for the explanation on how the cumulative values are derived. Please check previous Issues for the data from 10 March—31 July 2020.

TABLE 1A: SUMMARY OF SELECTED VARIABLES BY COUNTRY AS AT 11 SEPTEMBER 2020

Country	Confirmed Cases	New Cases	Deaths	Recoveries	Active Cases	Tests Conducted
<b>Total Member States</b>	25,948	2,886	563	14,937	10,364	205,173
Antigua and Barbuda	95	0	3	91	1	2149
Bahamas	2874	398	77	1285	1504	14700
Barbados	180	2	7	156	17	19444
Belize	1435	283	19	404	1012	10814
Dominica	24	2	0	20	4	2612
Grenada	24	0	0	24	0	1125
Guyana	1763	347	52	1144	567	10592
Haiti	8457	131	216	6120	2121	25052
Jamaica	3623	659	45	1072	2431	66715
Montserrat	13	0	1	11	0	328
Saint Lucia	27	1	0	26	1	7160
St Kitts and Nevis	17	0	0	17	0	1922
St Vincent and the Grena-	62	1	0	58	4	4335
Suriname	4529	277	93	3747	689	11674
Trinidad and Tobago	2825	785	50	762	2013	26551
<b>Total Associate Members</b>	1,093	56	16	668	408	97,963
Anguilla	3	0	0	3	0	662
Bermuda	177	2	9	161	7	53833
British Virgin Islands	64	1	1	30	33	4000
Cayman Islands	208	3	1	204	3	36588
Turks and Caicos Islands	641	50	5	270	365	2880
Total CARICOM	27,041	2,942	579	15,605	10,772	303,136

#### **Notes:**

- 1. New Cases are for the period 5-11 September 2020.
- 2. Data for some countries for the number of tests conducted are often not continuously updated and should be used with caution.
- 3. For The Bahamas, the number of deaths in the table includes 10 deaths that are under investigation and excludes 8 deaths that are classified as due to non-COVID-19 causes. The total number of deaths of COVID-19 positive persons is 85.
- 4. For Jamaica, the number of deaths in the table includes 5 deaths that are under investigation and excludes 4 deaths that are classified as due to non-COVID-19 causes. The total number of deaths of COVID-19 positive persons is 49.

# What do we learn from the Data?

[as at 11 September 2020]

The number of confirmed cases moved from 24,099 cases as at 4 September to 27,041 cases on 11 September. The number of deaths moved from 507 to 579. There were 2942 new cases (3094 new cases for the last period) and 72 new deaths (80 new deaths for the last period). Trinidad and Tobago led in the number of new cases with 785, followed by Jamaica with 659, The Bahamas, 398, Guyana, 347, Belize, 283, Suriname, 277, Haiti, 131 and Turks and Caicos Islands, 50.

Recoveries as at 11 September stood at 15,605 and active cases at 10,772, as compared to 13,921 recoveries and 9588 active cases on 4 September.

**Active Cases** [Active Cases are Confirmed Cases less recoveries, less deaths and less persons who tested positive and who might have left the country]:

- ◆ There are <u>four (4) countries</u> with no active cases as at 11 September. These countries are:- Anguilla, Grenada, Montserrat and St. Kitts and Nevis.
- Five (5) countries, Saint Lucia (1), Antigua and Barbuda (1), Cayman Islands (3), Dominica (4) and St Vincent and the Grenadines (4) had 1-4 active cases.
- One (1) country- Bermuda (7) had 5-10 active cases and one (1) country -Barbados (17) had `10-25 active cases.
- One (1) country had greater than 25 but less than 100 active cases: British Virgin Islands (33), with one (1) country, Turks and Caicos Islands (365) having greater than 300 but less than 400 active cases.
- ♦ The remaining seven (7) countries had 500+ active cases: Guyana (567), Suriname (689), Belize (1012), The Bahamas (1504), Trinidad and Tobago (2013), Haiti (2121) and Jamaica (2431).

#### Recoveries

- As mentioned earlier, there were *four* countries for which all active cases had recovered as at 11 September.
- Among the other countries, Haiti had 6120 recoveries (72 percent of its total confirmed cases), Suriname, 3747 (83 percent), Jamaica, 1072 (30 percent), The Bahamas, 1285 (45 percent), Guyana 1144, (65 percent) Trinidad and Tobago 762 (27 percent), Belize, 404 (28 percent) and Cayman Islands, 204 (98 percent).

#### **Confirmed Cases**

- In absolute terms the countries with the highest numbers of Confirmed Cases are *Haiti*, 8457, Suriname, 4529, Jamaica, 3623, The Bahamas, 2874, Trinidad and Tobago, 2825, Guyana, 1763, Belize, 1435, Turks and Caicos Islands, 641, Cayman Islands, 208, Barbados 180 and Bermuda, 177.
- In rates per 100,000 population for countries with 25+ cases, <u>Turks and Caicos Islands is still in the lead with 1552.06</u>, followed by Suriname with 776.84, The Bahamas with 753.70, Belize with 360.51 and Cayman Islands with 316.05, completes the top five.
- The rate for *Bermuda* is 276.68, *Guyana*, 237.92, *Trinidad and Tobago*, 207.84 and *Haiti* is at 74.11. *Montserrat (under 25 cases)* has a rate of 260 (13 cases); [Please see Table 2 for rates for other countries].

#### **Deaths**

- Haiti has the highest number of deaths as at 11 September with 216 an increase of 4 from 4 September. Suriname is in second place with 93 (+18), followed by The Bahamas, 77 (+7) with an additional 8 non-covid-19 related causes of death for the confirmed cases, Guyana, 52 (+8), Trinidad and Tobago 50 (+19), Jamaica 45 (+12) and an additional 4 deaths from non-covid-19 causes for the confirmed cases, Belize, 19 (+4) and Turks and Caicos Islands 5 (no change).
- The number of deaths per 100,000 population is now the highest in **The Bahamas** with **20.19**, *Montserrat* with **20** (1), **Bermuda** follows with **14.07** (9), **Suriname**, **15.95** followed by **Turks and Caicos Islands**, **12.11**. Even though Haiti has the highest number of deaths its rate is only **1.89** based on its population size.
- The Case Fatality Rate (number of deaths as a percentage of the number of confirmed cases) is the highest in Montserrat with 7.7 percent followed by Bermuda with 5.1, Barbados, 3.9, Antigua and Barbuda, 3.2 (3) and Guyana, 2.9. Haiti is at 2.6 percent.

#### **Testing-** [Tracking the pandemic]

♦ Bermuda, with a rate per 100,000 of the number of tests conducted of 84,149.6 (53,833 tests), has the highest rate followed by Cayman Islands with 55,593.9 (36,588 tests), British Virgin Islands 13,721.71 (4000 tests), Barbados, 7080.0 (19,444 tests) and Turks and Caicos Islands with 6,973.4 (2880 tests). Jamaica has conducted the highest number of tests with 66,715 but is in fourteenth place with 2446.0 tests per 100,000 population.

CHART 1: SUMMARY ALL COUNTRIES - NUMBER OF CONFIRMED CASES, NEW CASES AND DEATHS – 10 MARCH - 11 SEPTEMBER 2020

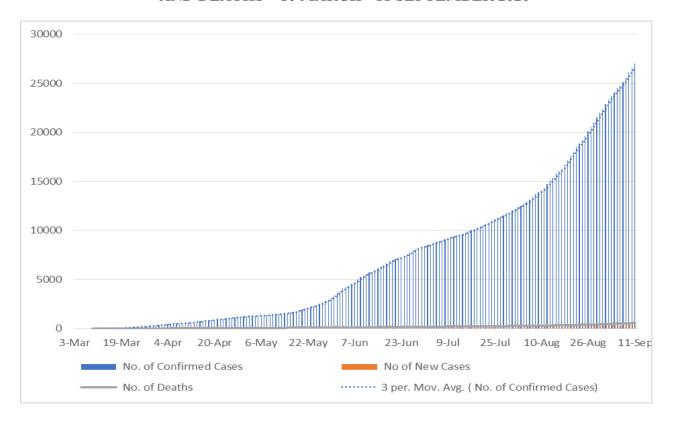
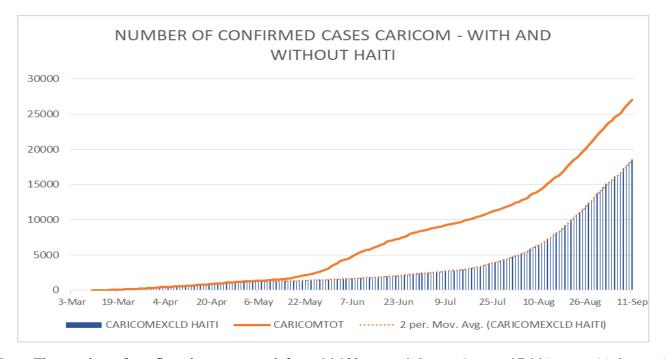


CHART 1A: NUMBER OF CONFIRMED CASES IN CARICOM—WITH AND WITHOUT HAITI AS AT 11 SEPTEMBER 2020



Note: The number of confirmed cases moved from 24,099 as at 4 September to 27,041 as at 11 September, increasing by 2942 cases, while the number of deaths moved from 507 to 579, an increase of 72.

# CHART 1B: SUMMARY ALL COUNTRIES - NUMBER OF NEW CASES - 10 MARCH - 11 SEPTEMBER 2020

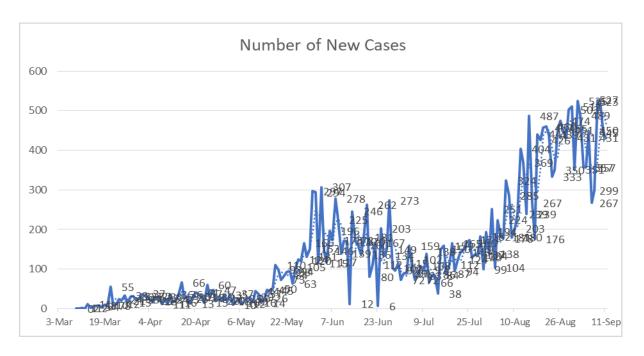
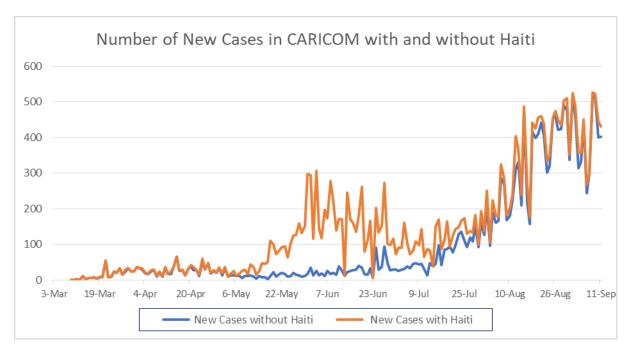
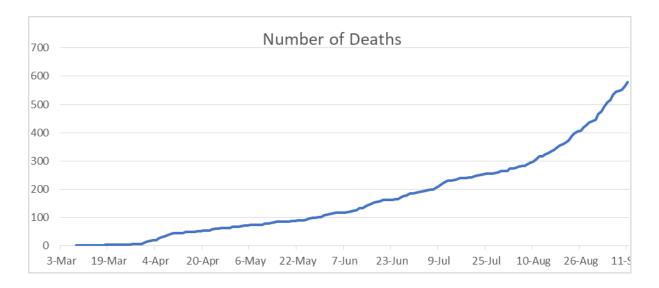


CHART 1C: SUMMARY ALL COUNTRIES - NUMBER OF NEW CASES - WITH AND WITHOUT HAITI - 10 MARCH - 11 SEPTEMBER 2020



Note: The total number of new cases for the period 5-11 September is 2942 as compared to 3094 during the last reporting period 29 August – 4 September, a decrease of 152. Trinidad and Tobago had the highest number of new cases, with 785 (26.7 percent of the total for CARICOM), followed by Jamaica with 659, (22.4 percent), The Bahamas, 398 (13.5 percent), Guyana, 347 (11.8 percent), Belize with 283 (9.6 percent), Suriname, 277, (9.4 percent), Haiti with 131 (4.5 percent) and Turks and Caicos Islands, 50 (1.7 percent). The increasing trend in the number of new cases is evident in Charts 1B and 1C.

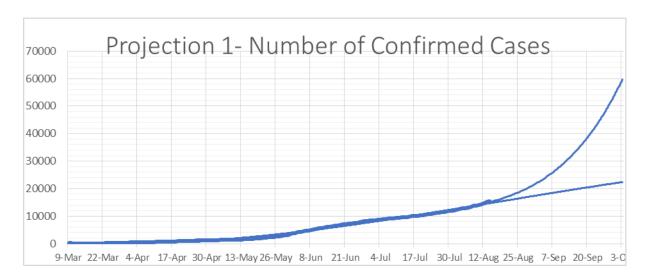
# CHART 1D: SUMMARY ALL COUNTRIES - NUMBER OF DEATHS - 10 MARCH - 11 SEPTEMBER 2020



Note: The total number of deaths this reporting period 5-11 September is 579, an increase of 72 from the previous reporting period 29 August - 4 September. Haiti leads with 216 deaths followed by Suriname with 93. The Bahamas with 77 (COVID-19 causes and under investigation), Guyana with 52 deaths, Trinidad and Tobago, 50, Jamaica with 45 (COVID-19 causes and under investigation) and Belize, 19.

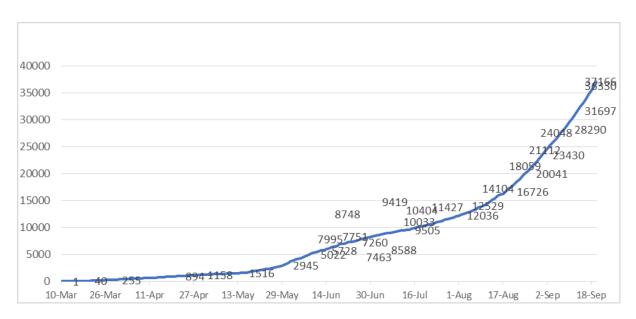
The number of deaths for **The Bahamas**, **77**, includes **10 deaths** of COVID-19 patients that are classified as under investigation and excludes **8 deaths** that are classified as due to non-COVID-19 causes. This implies that a total **of 85 COVID-19 patients** have died in this Member State. The total number of deaths for **Jamaica**, **45**, includes **5 deaths** that are classified as under investigation and excludes **4 deaths** that are stated to be due to non-COVID-19 causes, implying that **49 COVID-19 patients** have died in Jamaica as at **11 September**.

CHART 2: PROJECTION 1-ESTIMATED NUMBER OF CONFIRMED CASES EXTENDED TO OCTOBER 2020



Note: The non-linear trendline gave a projected value for 11 September of 27,000. The actual value is 27,041, a difference of 41, which is effectively "spot-on". The projected value for 18 September is 30,000.

# CHART 2A: UPDATED PROJECTION USING GROWTH RATES (19-21 AUGUST) OF THE NUMBER OF CONFIRMED CASES PROJECTED UP TO SEPTEMBER 2020



Note: The projected value for 11 September was 30,288. The actual value is 27,041, a difference of 3247. The projected value for 18 September is 35,514. There was a slight slowing of the growth rate as per the projection.

# CHART 2B: PROJECTION BASED ON 50 DAY DOUBLING PERIOD- UP TO SEPTEMBER 2020- FITTED WITH ACTUAL VALUES



Note: The projected value for 11 September was 25,648 as compared to the actual value of 27,041, a difference of, -1393 which is relatively close to the projected value. The projected value for 18 September is 28,172.

8457

**Total Confirmed** 

Cases: 27,041

**4529** 

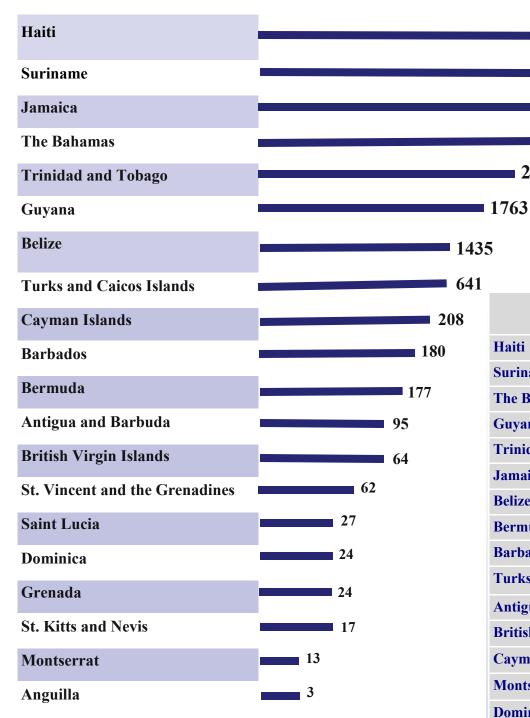
3623

**2874** 

2825

# **Special Topic Bulletin - COVID 19**

#### **SUMMARY OF CONFIRMED CASES AS AT 11 SEPTEMBER 2020**



Note: The number of confirmed cases in Haiti is 8457, which is less than twice the number of confirmed cases for Suriname (second place) that has 4529 cases. Jamaica (third) has crossed 3000 confirmed cases and is at 3623 cases. The Bahamas (fourth) has 2874 cases followed by Trinidad and Tobago (fifth) with 2825. Both countries should cross 3000 cases during the next reporting period. Guyana (sixth) has 1763 cases; Belize (seventh) has 1435 cases, with Turks and Caicos Islands (eighth) with 641. Trinidad and Tobago had +19 additional deaths, Suriname had +18, Jamaica had +12; Guyana had +8; The Bahamas had +7; Belize and Haiti each had +4 additional deaths. Please see the notes elsewhere in this Bulletin on deaths in The Bahamas and Jamaica.

SUMMARY OF DE AS AT 11 SEPTEME	
Country	Number of Deaths
Haiti	216
Suriname	93
The Bahamas	77
Guyana	52
Trinidad and Tobago	50
Jamaica	45
Belize	19
Bermuda	9
Barbados	7
Turks and Caicos Islands	5
Antigua and Barbuda	3
<b>British Virgin Islands</b>	1
Cayman Islands	1
Montserrat	1
Dominica	0
Grenada	0
Saint Lucia	0
St. Kitts and Nevis	0
St. Vincent and the Grenadines	0
Anguilla	0

Total Deaths: 579

TABLE 2: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION IN CARICOM –SELECTED COUNTRIES–31 JULY – 11 SEPTEMBER

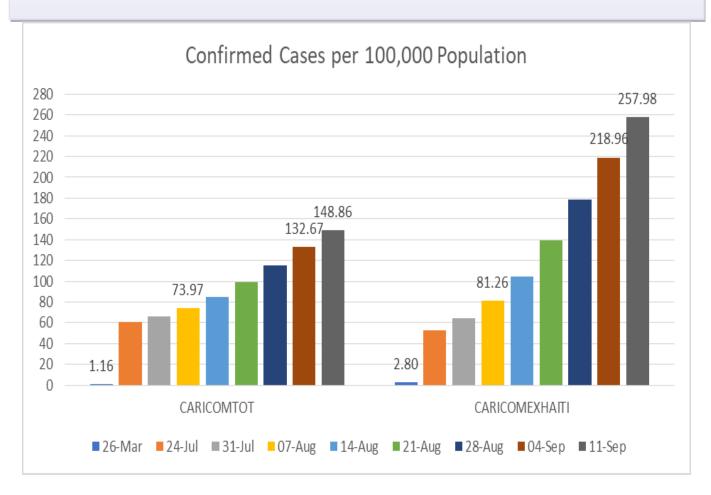
	DATE						
	31-	07-	14-	21-	28-	04-	11-
COUNTRY	Jul	Aug	Aug	Aug	Aug	Sep	Sep
CARICOM -ALL COUNTRIES	66.26	73.97	84.53	99.42	115.62	132.67	148.86
CARICOM EXCLD HAITI	64.19	81.26	104.74	139.41	178.26	218.96	257.98
ANTIGUA AND BARBUDA	95.78	96.83	97.88	98.93	98.93	99.99	99.99
THE BAHAMAS	150.53	217.66	293.45	446.61	539.44	649.32	753.70
BARBADOS	40.05	50.25	53.89	57.17	60.44	64.81	65.54
BERMUDA	243.85	245.42	248.54	261.05	262.61	273.55	276.68
BELIZE	12.06	36.68	97.48	162.79	218.57	289.41	360.51
BRITISH VIRGIN ISLANDS					126.93	216.12	219.55
CAYMAN ISLANDS	308.45	308.45	308.45	311.49	311.49	311.49	316.05
GUYANA	55.74	72.60	87.58	118.89	159.24	191.09	237.92
HAITI	64.95	66.44	68.44	70.24	71.52	72.96	74.11
JAMAICA	32.19	36.19	39.67	49.35	73.73	108.67	132.83
SAINT LUCIA	13.97	13.97	13.97	14.53	14.53	14.53	14.53
ST VINCENT AND THE							
GRENADINES	48.65	50.45	51.35	52.25	54.05	54.95	55.86
SURINAME	292.62	377.87	486.79	593.48	660.03	729.33	776.84
TRINIDAD & TOBAGO	12.43	16.55	31.34	63.57	114.33	150.09	207.84
TURKS AND CAICOS ISLANDS	276.03	411.62	663.44	840.19	1186.44	1430.99	1552.06

Note: Please check the Explanatory Notes repeated in this Issue for the use of rates per 100,000 population in comparing values across countries.

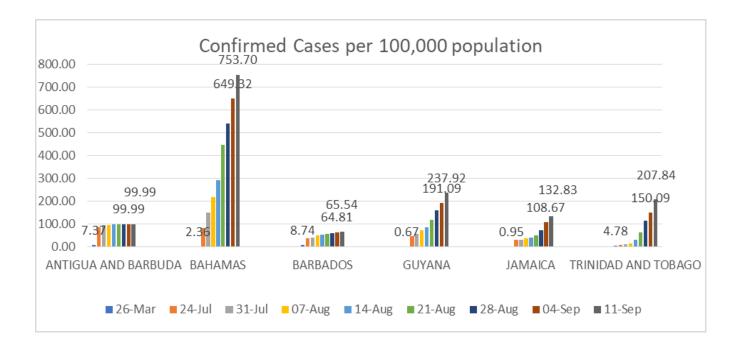
Of the countries with 25 + confirmed cases, the top five countries for the number of confirmed cases per 100,000 population as at 11 September are: Turks and Caicos Islands (1552.06), Suriname (776.84), The Bahamas (753.70), Belize (360.51) and Cayman Islands (316.05) Bermuda follows with 276.68. Guyana is on 237.92. British Virgin Islands, 219.55. Trinidad and Tobago, 207.84, Jamaica is 132.83 and Haiti's rate is 74.11. Montserrat (less than 25 confirmed cases) not shown in this table has a rate of 260 cases per 100,000 population.

Information on the number of confirmed cases per 100, 000 population as at 19 June for those countries that are not shown can be requested. Please check previous Issues for rates for earlier periods.

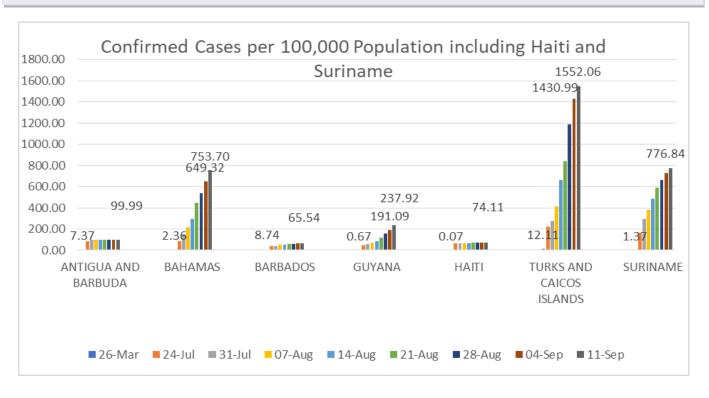
# CHART 3: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION-CARICOM WITH AND WITHOUT HAITI 26 MARCH-11 SEPTEMBER 2020



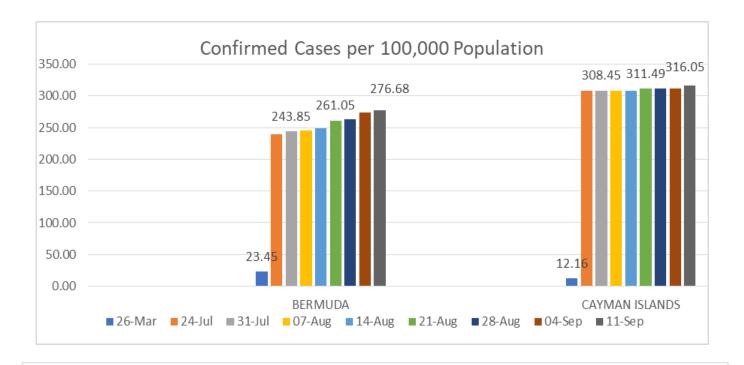
# CHART 3A: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION – SELECTED COUNTRIES 26 MARCH– 11 SEPTEMBER 2020



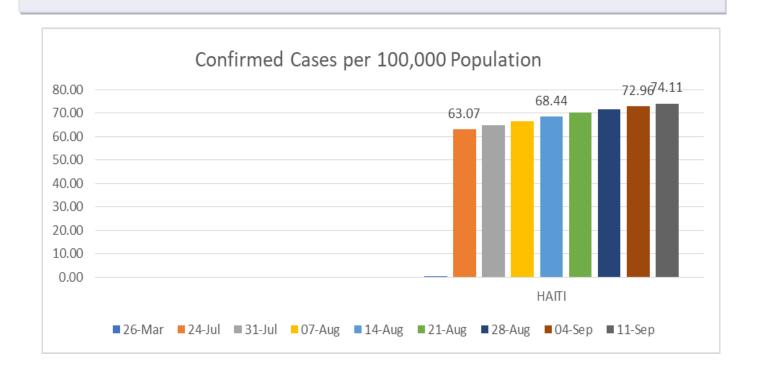
# CHART 3B: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION – SELECTED COUNTRIES (WITH HAITI AND SURINAME) 26 MARCH–11 SEPTEMBER 2020



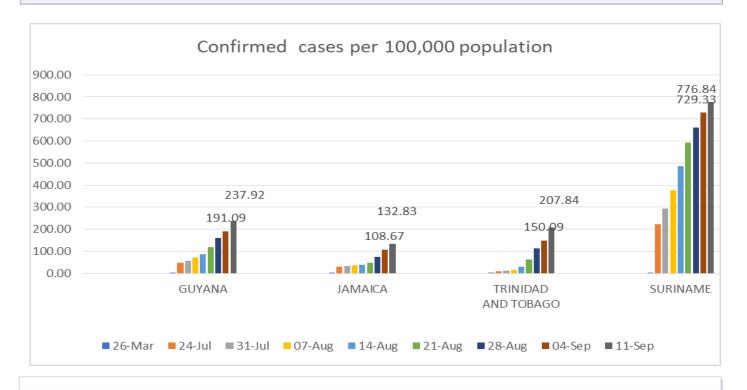
# CHART 3C: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION – BERMUDA AND CAYMAN ISLANDS -26 MARCH– 11 SEPTEMBER 2020



# CHART 3D: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION-HAITI - 26 MARCH- 11 SEPTEMBER 2020



# CHART 3E: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION GUYANA, JAMAICA, TRINIDAD AND TOBAGO AND SURINAME 26 MARCH- 11 SEPTEMBER 2020



# CHART 3F: NUMBER OF CONFIRMED CASES PER 100,000 POPULATION ANTIGUA AND BARBUDA, BARBADOS, ST. VINCENT AND THE GRENADINES SAINT LUCIA AND BRITISH VIRGIN ISLANDS 26 MARCH- 11 SEPTEMBER 2020

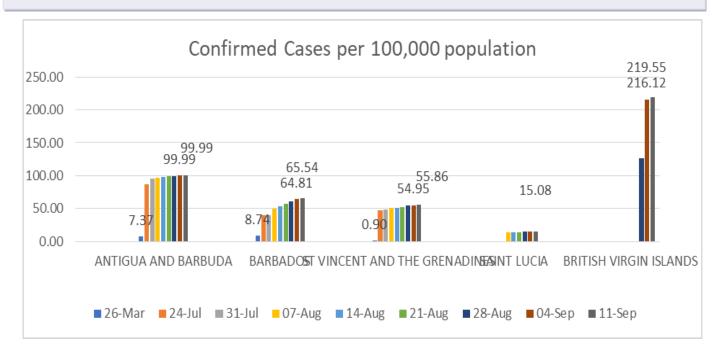


TABLE 3: NUMBER OF DEATHS PER 100,000 POPULATION 31 JULY – 11 SEPTEMBER 2020

	DATE						
	31– July	07- August	14– August	21- August	28– August	04– September	11– September
CARICOM - ALL COUNTRIES	1.46	1.56	1.78	2.02	2.35	2.79	3.19
CARICOM EXCL. HAITI	1.44	1.55	1.82	2.37	3.14	4.10	5.04
ANTIGUA AND BARBUDA	3.16	3.16	3.16	3.16	3.16	3.16	3.16
THE BAHAMAS	3.67	3.67	4.46	7.08	13.11	18.36	20.19
BARBADOS	2.55	2.55	2.55	2.55	2.55	2.55	2.55
BERMUDA	14.07	14.07	14.07	14.07	14.07	14.07	14.07
BELIZE	0.50	0.50	0.75	1.26	3.01	3.77	4.77
BRITISH VIRGIN ISLANDS	3.43	3.43	3.43	3.43	3.43	3.43	3.43
CAYMAN ISLANDS	1.52	1.52	1.52	1.52	1.52	1.52	1.52
GUYANA	2.70	2.97	2.97	4.18	4.72	5.94	7.02
HAITI	1.41	1.50	1.68	1.72	1.76	1.86	1.89
JAMAICA	0.37	0.48	0.51	0.59	0.70	1.21	1.65
MONTSERRAT	20.00	20.00	20.00	20.00	20.00	20.00	20.00
SURINAME	4.46	4.97	7.03	9.61	11.32	12.86	15.95
TRINIDAD & TOBAGO	0.59	0.59	0.74	0.88	1.40	2.28	3.68
TURKS AND CAICOS ISLANDS	4.84	4.84	4.84	4.84	7.26	12.11	12.11

**Note:** The number of deaths per 100,000 population is adjusted by the corresponding population of countries. Please check previous issues for rates for earlier periods.

# TABLE 3A: DEATHS AS A PERCENTAGE OF THE NUMBER OF CONFIRMED CASES— CASE FATALITY RATES –31 JULY – 11 SEPTEMBER

		Date							
COUNTRY	31-	07-	14-	21-	28-	04-	11-		
COUNTRY	Jul	Aug	August	August	August	September	September		
CARICOM-ALL COUNTRIES	2.2	2.1	2.1	2.0	2.0	2.1	2.1		
ANTIGUA AND BARBUDA	3.3	3.3	3.2	3.2	3.2	3.2	3.2		
THE BAHAMAS	3.0	1.7	1.5	1.6	2.4	2.8	2.7		
THE DATEANIAN	3.0	1./	1.3	1.0	2.4	2.0	2.1		
BARBADOS	6.4	5.1	4.7	4.5	4.2	3.9	3.9		
DEDMUDA	5.0	5.7	5.7	<b>5</b> 4	5.4	<b>7.1</b>	<i>7.</i> 1		
BERMUDA	5.8	5.7	5.7	5.4	5.4	5.1	5.1		
BELIZE	4.2	1.4	0.8	0.8	1.4	1.3	1.3		
	1.2	111	0.0	0.0	111	1.0	1.0		
BRITISH VIRGIN ISLANDS	12.5	11.1	11.1	9.1	2.9	1.6	1.6		
CAYMAN ISLANDS	0.5	0.5	0.5	0.5	0.5	0.5	0.5		
GUYANA	4.8	4.1	3.4	3.5	3.0	3.1	2.9		
HAITI	2.2	2.3	2.5	2.4	2.5	2.5	2.6		
JAMAICA	1.1	1.3	1.3	1.2	0.9	1.1	1.2		
MONTSERRAT	7.7	7.7	7.7	7.7	7.7	7.7	7.7		
SURINAME	1.5	1.3	1.4	1.6	1.7	1.8	2.1		
TRINIDAD & TOBAGO	4.7	3.6	2.3	1.4	1.2	1.5	1.8		
TURKS AND CAICOS ISLANDS	1.8	1.2	0.7	0.6	0.6	0.8	0.8		

**Note:** The number of deaths to confirmed cases reflects a fatality rate that does not take the population size into consideration. Please check previous issues for values for earlier periods.

# CHART 4: DEATHS AS A PERCENTAGE OF CONFIRMED CASES-ALL COUNTRIES-CASE FATALITY RATES AS AT 11 SEPTEMBER 2020

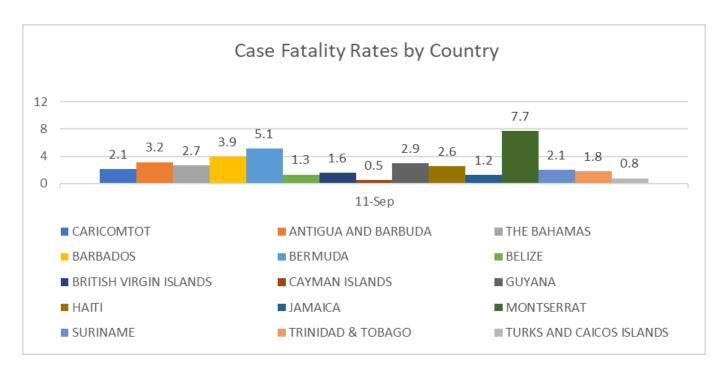
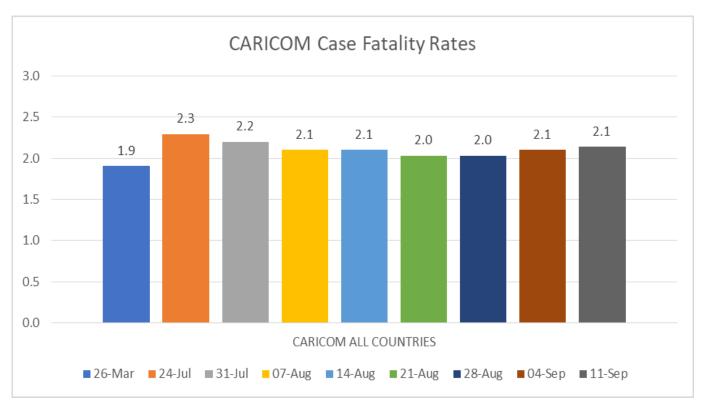
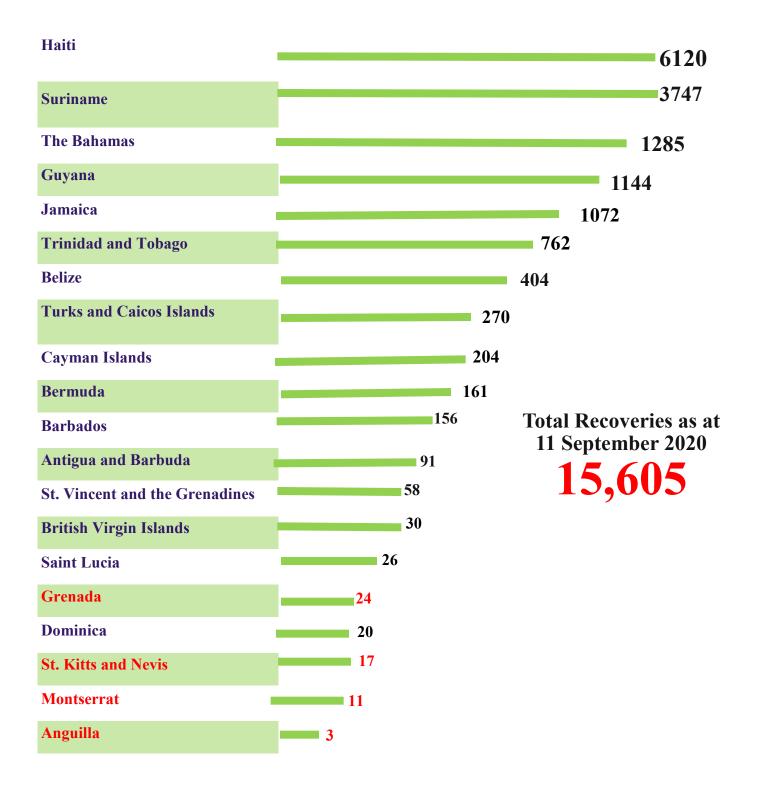


CHART 4A: CARICOM—ALL COUNTRIES- CASE FATALITY RATES 26 MARCH - 11 SEPTEMBER



#### **SUMMARY OF RECOVERED CASES AS AT 11 SEPTEMBER 2020**



FOR COUNTRIES SHOWN IN ORANGE, ALL ACTIVE CASES HAVE RECOVERED .

TABLE 4: ACTIVE CASES, RECOVERIES, NUMBER OF TESTS CONDUCTED AND HOSPITALISATIONS AS AT 11 SEPTEMBER 2020

	CONFIRMED		ACTIVE	NO. OF	
COUNTRY	CASES	RECOVERIES	CASES	TESTS	HOSPITALISATIONS
Haiti	8457	6120	2121	25052	
Suriname	4529	3747	689	11674	89
The Bahamas	2874	1285	1504	14700	65
Guyana	1763	1144	567	10592	
Jamaica	3623	1072	2431	66715	104
Trinidad and Tobago	2825	762	2013	26551	109
Belize	1435	404	1012	10814	
Turks and Caicos Islands	641	270	365	2880	3
Cayman Islands	208	204	3	36588	0
Bermuda	177	161	7	53833	0
Barbados	180	156	17	19444	
Antigua and Barbuda	95	91	1	2149	
St Vincent and the Grenadines	62	58	4	4335	
British Virgin Islands	64	30	33	4000	
Saint Lucia	27	26	1	7160	
Grenada	24	24	0	1125	0
Dominica	24	20	4	2612	
St Kitts and Nevis	17	17	0	1922	0
Montserrat	13	11	0	328	0
Anguilla	3	3	0	662	0
Total	27,041	15,605	10,772	303,136	

**Note:** The table is sorted by descending order of recoveries.

All active cases in Anguilla, Grenada, Montserrat, and St Kitts and Nevis have recovered up to the end of the reporting period 11 September.

The following countries <u>had no active cases</u> in past reporting periods and now have active cases: Saint Lucia (1), Cayman Islands (3), Dominica (4), St Vincent and the Grenadines (4), Bermuda (7), Barbados (17), British Virgin Islands (33), Turks and Caicos Islands (365), Suriname (689), Belize (1012) and Trinidad and Tobago (2013).

Other countries with active cases are:

Antigua and Barbuda has 1 active case, The Bahamas 1504, Guyana, 567, Jamaica, 2431 and Haiti, 2121.

Ten countries have 10 or less active cases, the same number as the last reporting period.

Table 5: NUMBER OF TESTS AND RATE PER 100,000 POPULATION – AS AT 11 SEPTEMBER 2020

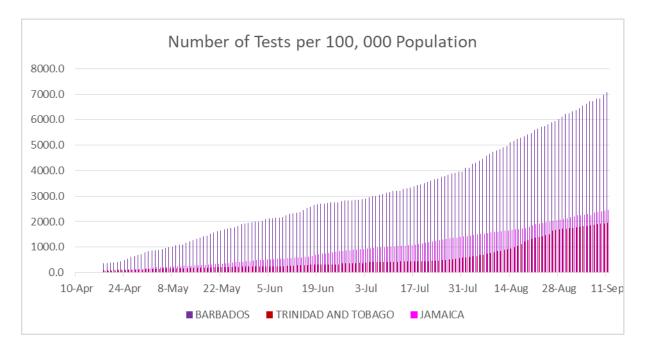
COUNTRY	NO. OF TESTS	NO. OF TESTS PER 100,000
Anguilla	662	4413.3
Antigua and Barbuda	2149	2261.8
Bahamas	14700	3855.0
Barbados	19444	7080.0
Belize	10814	2716.7
Bermuda	53833	84149.6
British Virgin Islands	4000	13721.7
Cayman Islands	36588	55593.9
Dominica	2612	3627.8
Grenada	1125	1009.3
Guyana	10592	1429.4
Haiti	25052	219.5
Jamaica	66715	2446.0
Montserrat	328	6560.0
Saint Lucia	7160	4000.0
St Kitts and Nevis	1922	3626.4
St Vincent and the Grenadines	4335	3905.4
Suriname	11674	2002.4
Trinidad and Tobago	26551	1953.4
Turks and Caicos Islands	2880	6973.4

Note: The top five countries based on the number of tests per 100,000 population are: Bermuda, (84,149.6), Cayman Islands (55,593.9), British Virgin Islands (13,721.7), Barbados (7080.0) and Turks and Caicos Islands (6973.4) in that order.

It is not known whether these tests are a mix of Rapid Tests and PCR or Polymerase Chain Reaction testing. Wherever this is known, the Rapid Tests are removed from the total number of tests conducted. However, a few countries have been able to obtain PCR-based testing equipment from other countries such as the United Kingdom.

# CHART 5: NUMBER OF TESTS PER 100, 000 POPULATION - SELECTED COUNTRIES—BARBADOS, TRINIDAD AND TOBAGO, JAMAICA

#### **18 APRIL - 11 SEPTEMBER 2020**



# CHART 5A: NUMBER OF TESTS PER 100, 000 POPULATION- CAYMAN ISLANDS 18 APRIL— 11 SEPTEMBER 2020

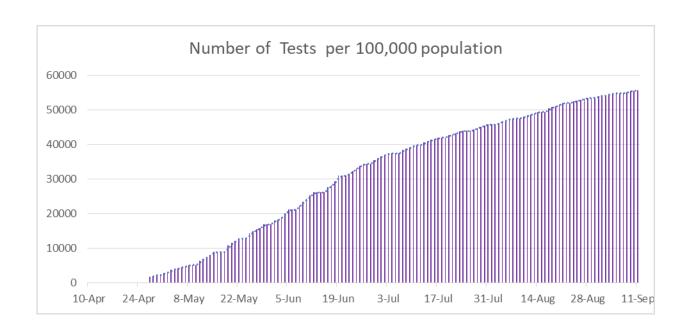


CHART 5B: NUMBER OF RECOVERIES - BARBADOS 18 APRIL - 11 SEPTEMBER 2020

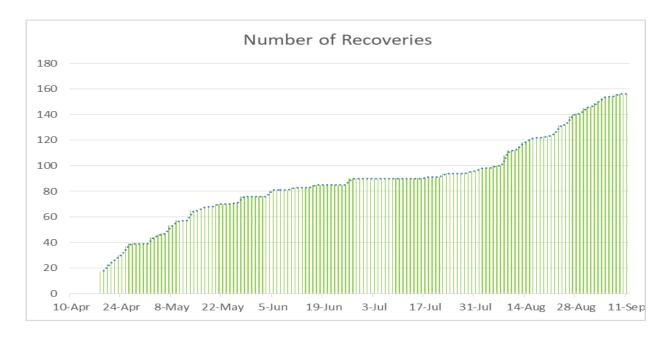


CHART 5C: NUMBER OF ACTIVE CASES - BARBADOS

18 APRIL - 11 SEPTEMBER 2020

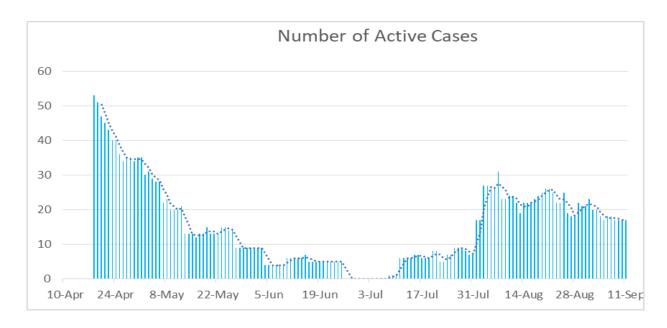


CHART 5D: NUMBER OF TESTS CONDUCTED - BARBADOS 18 APRIL - 11 SEPTEMBER 2020

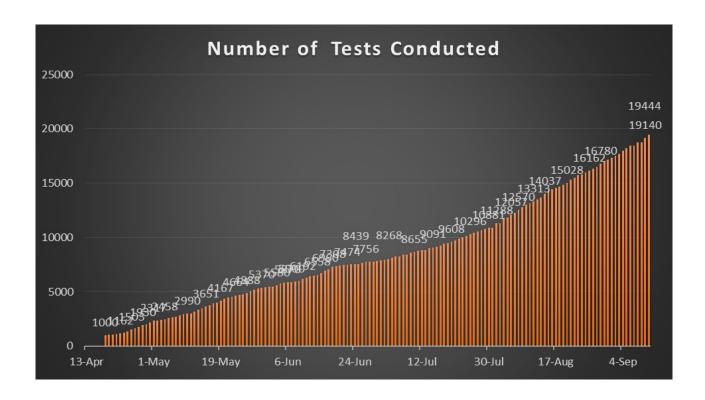
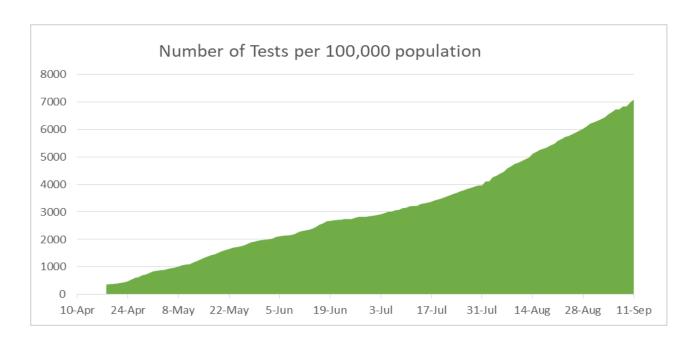
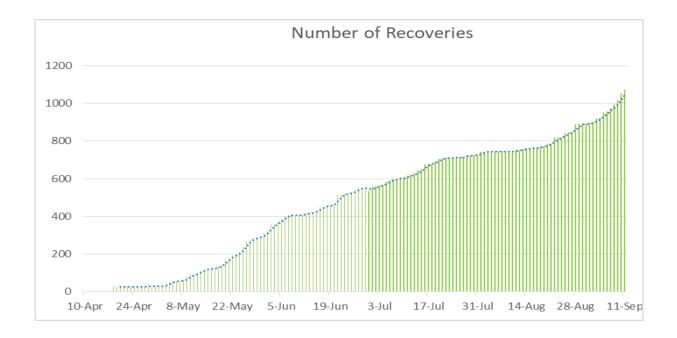


CHART 5E: NUMBER OF TESTS CONDUCTED PER 100, 000 POPULATION - BARBADOS

18 APRIL - 11 SEPTEMBER 2020



# CHART 5F: NUMBER OF RECOVERIES - JAMAICA 18 APRIL- 11 SEPTEMBER 2020



# CHART 5G: NUMBER OF ACTIVE CASES - JAMAICA 18 APRIL - 11 SEPTEMBER 2020

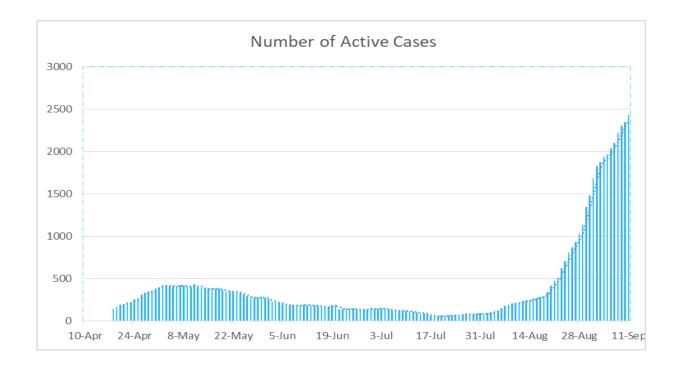


CHART 5H: NUMBER OF TESTS CONDUCTED - JAMAICA 18 APRIL - 11 SEPTEMBER 2020

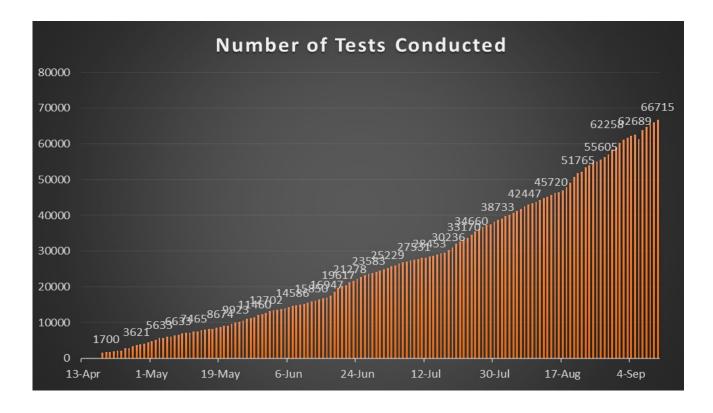


CHART 5I: NUMBER OF TESTS CONDUCTED PER 100, 000 POPULATION - JAMAICA 18 APRIL - 11 SEPTEMBER 2020

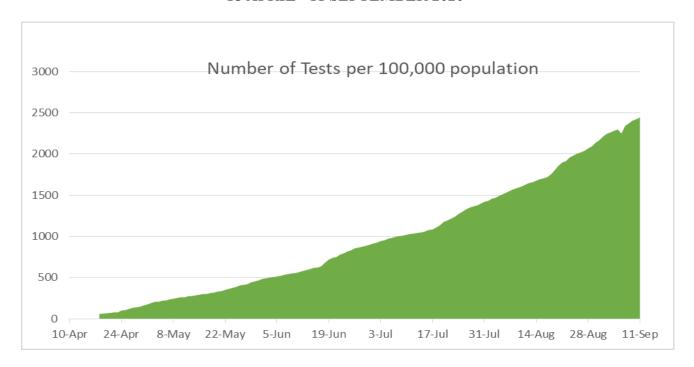
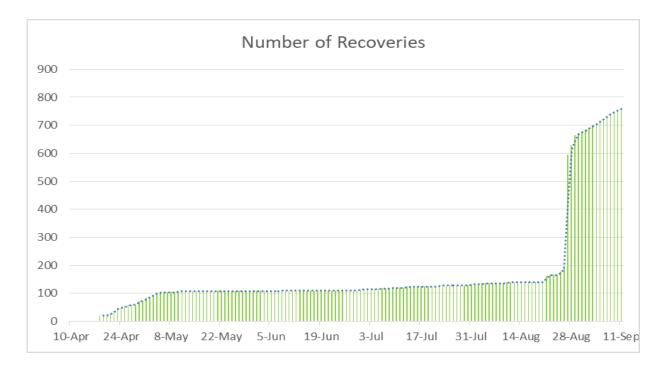
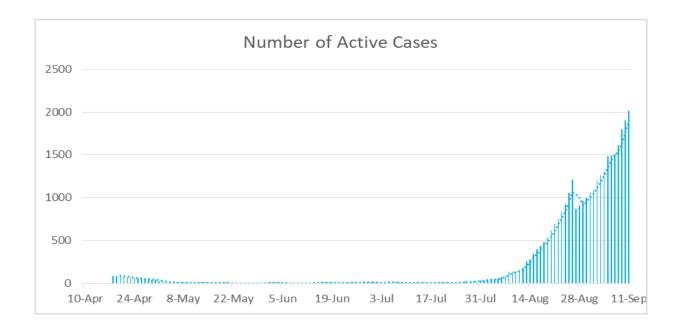


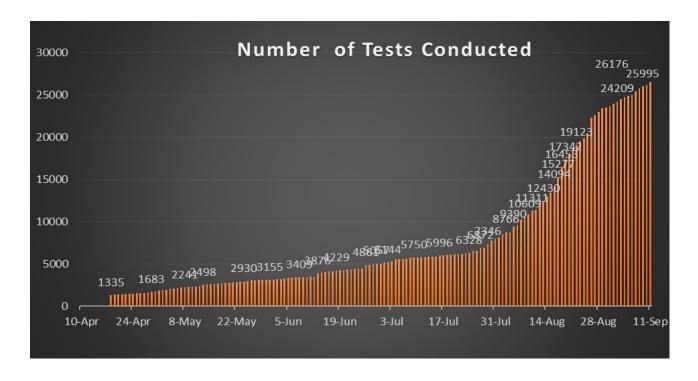
CHART 5J: NUMBER OF RECOVERIES - TRINIDAD AND TOBAGO 18 APRIL - 11 SEPTEMBER 2020



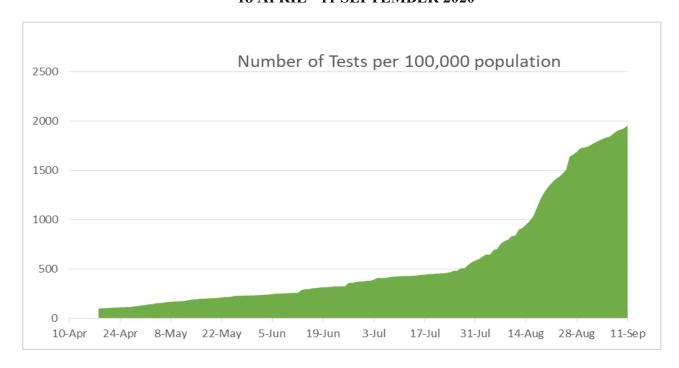
### CHART 5K: NUMBER OF ACTIVE CASES- TRINIDAD AND TOBAGO 18 APRIL - 11 SEPTEMBER 2020



#### CHART 5L: NUMBER OF TESTS CONDUCTED - TRINIDAD AND TOBAGO 18 APRIL - 11 SEPTEMBER 2020



# CHART 5M: NUMBER OF TESTS CONDUCTED PER 100, 000 POPULATION - TRINIDAD AND TOBAGO 18 APRIL - 11 SEPTEMBER 2020



# CHART 5N: NUMBER OF RECOVERIES - BERMUDA 18 APRIL - 11 SEPTEMBER 2020

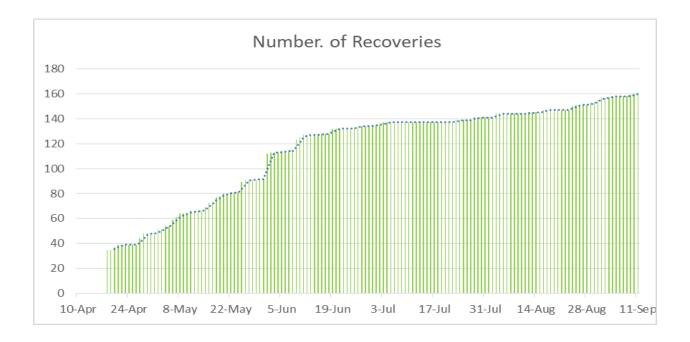


CHART 50: NUMBER OF ACTIVE CASES - BERMUDA 18 APRIL - 11 SEPTEMBER 2020

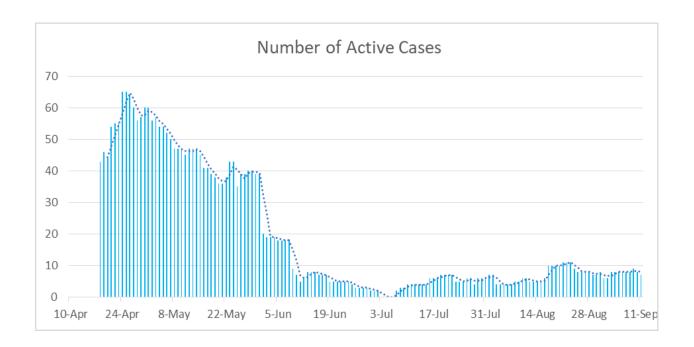


CHART 5P: NUMBER OF TESTS CONDUCTED - BERMUDA 18 APRIL - 11 SEPTEMBER 2020

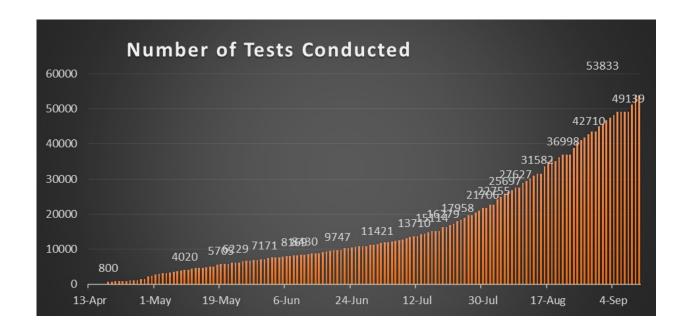
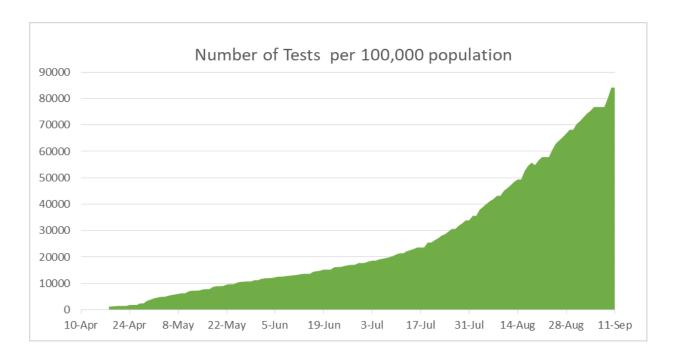


CHART 5Q: NUMBER OF TESTS CONDUCTED PER 100, 000 POPULATION - BERMUDA 18 APRIL - 11 SEPTEMBER 2020



# TABLE 6: APPROXIMATE MODE OF TRANSMISSION - SELECTED COUNTRIES AS AT 11 SEPTEMBER 2020

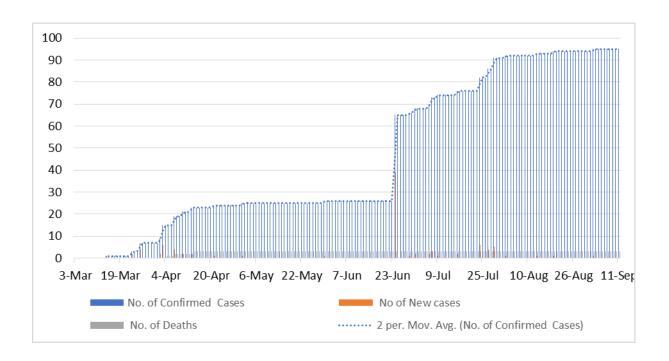
Country	Imported Transmission	Local Transmission	Community/ Unknown	Under Investigation
		Local		THAMPHOUND TO
Trinidad and Tobago <sup>e</sup>	114	185	1	194
Guyana <sup>e</sup>	4	1759	0	0
Bermuda	66	90	19	2
Jamaica	460	934	253	1976
St. Vincent and the Grenadines	55	7	-	-
Belize <sup>e</sup>	47	357	2	46
Antigua and Barbuda	70	25		
Haiti <sup>e</sup>	152	8305		

Note: There are differences in the classification of Mode of transmission. In the case of Jamaica, approximately 236 cases from a work place cluster is placed under local transmission. Antigua and Barbuda classifies its mode of transmission as imported/ non-imported. Trinidad and Tobago and Jamaica have declared that they are experiencing Community Transmission. Column 3, Community/Unknown, therefore shows a combination of Community Transmission and Local/Unknown Transmission i.e. with no Epidemiological Link. The current cases that are listed in that column for all countries including Trinidad and Tobago relate to Local Transmission unknown /no epidemiological link. However it is expected that in the future there may be cases that display Community Transmission. The differences between the figures in the Table and the total confirmed cases for the respective countries represent unclassified or not stated cases relative to modes of transmission. No updates are available for some countries. Please see Issue 2 for explanations on Mode of Transmission.

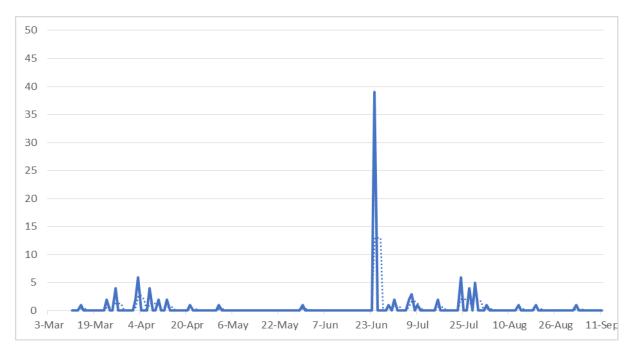
# TABLE 7: CONFIRMED CASES BY SEX - SELECTED COUNTRIES AS AT 11 SEPTEMBER 2020

Country			Not Stated/ Remarks
Haiti	4930	3527	
Jamaica	1604	1971	48
Guyana	867	896	
Belize	770	665	
Trinidad and Tobago <sup>e</sup>	1542	1283	Updated
Cayman Islands	108	100	
Barbados	87	93	
Bermuda <sup>e</sup>	83	94	

**CHART 6: ANTIGUA AND BARBUDA** 

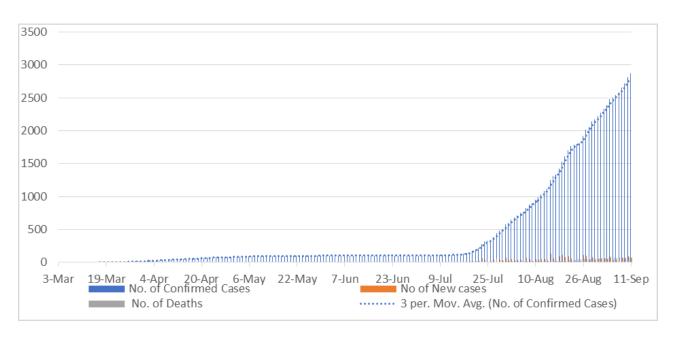


**CHART 6A: ANTIGUA AND BARBUDA** 

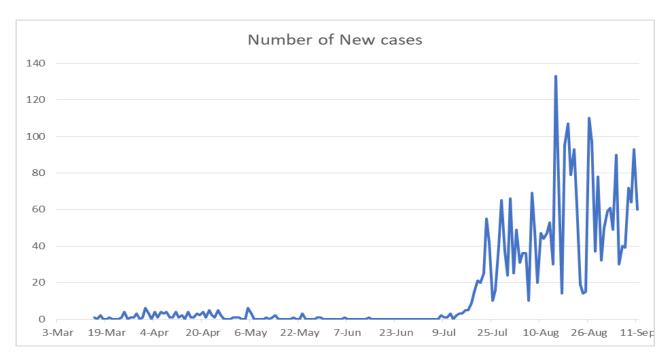


Note: Antigua and Barbuda had no new cases during the current reporting period, 5-11 September as compared to 1 new case during 29-August – 4 September. The total number of cases stood at 95 as at 4 September, with 1 active case.

#### **CHART 7: THE BAHAMAS**



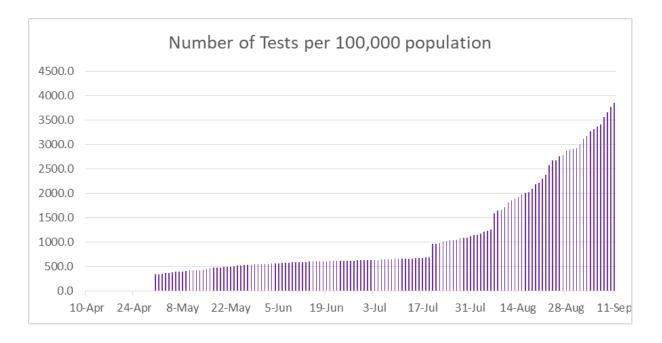
#### **CHART 7A: THE BAHAMAS**



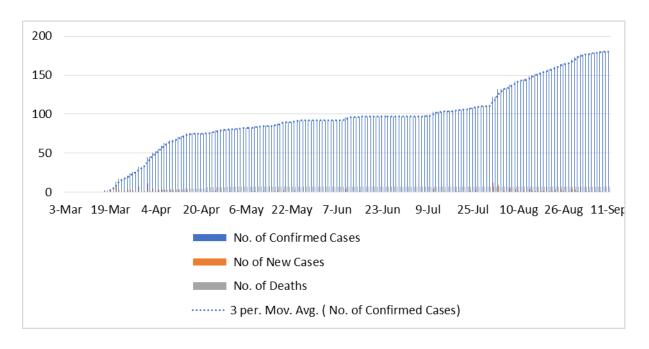
Note: The Bahamas had 398 new cases during the current reporting period, 5-11 September, as compared to 419 new cases 29 August- 4 September, 354 new cases for the period 22-28 August, and 584 during 15-21 August. The number of confirmed cases increased to 2874 as at 11 September, with active cases at 1285. The substantial increase in the number of new cases for The Bahamas from early July is evident in Chart 7A.

There are 77 (+7) deaths of COVID-19 patients, including 10 deaths that are under investigation and excluding 8 deaths that are classified as being due to non-COVID-19 causes. The overall number of deaths of COVID-19 positive persons in The Bahamas is 85.

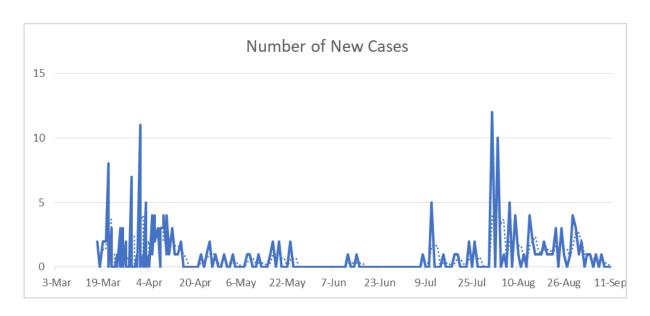
# **CHART 7B: THE BAHAMAS**



**CHART 8: BARBADOS** 

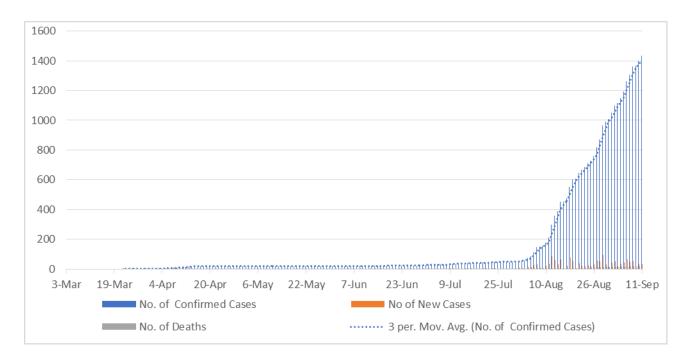


# **CHART 8A: BARBADOS**

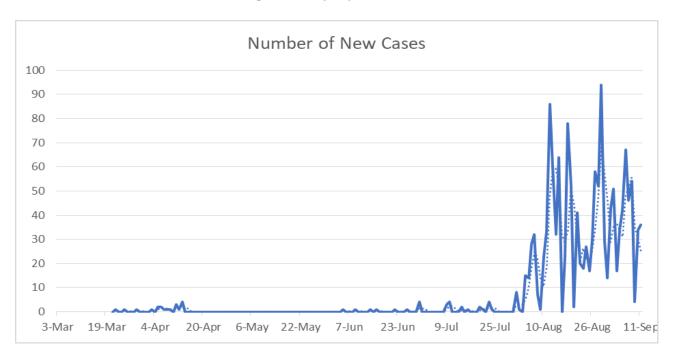


Note: Barbados had 2 new cases during the current reporting period, 5-11 September, as compared to 12 new cases 29 August- 4 September. The number of confirmed cases stood at 180 as at 11 September with 7 active cases. The increase in the number of new cases from mid-July is evident in Chart 8A, as well as the declining number of new cases in recent weeks.

**CHART 9: BELIZE** 

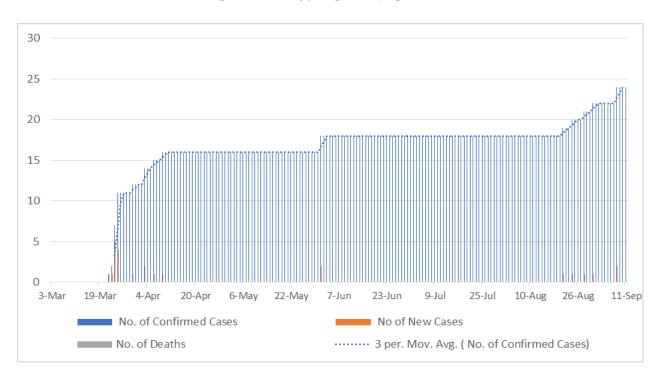


# **CHART 9A: BELIZE**

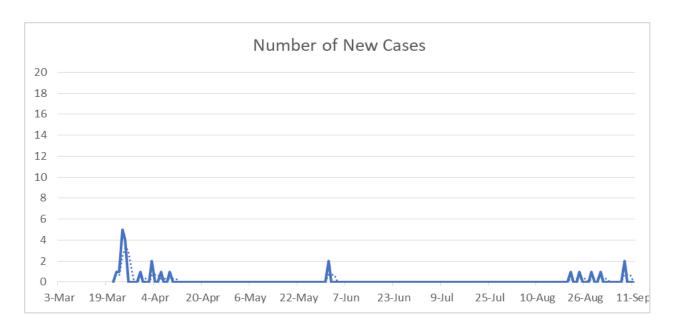


Note: Belize had 283 new cases during the current reporting period, 5-11 September, almost the same as for 29 August-4 September that saw 282 new cases. The number of confirmed cases increased to 1435 with 1012 active cases and 19 deaths (+4). The increase in the number of new cases is evident in Chart 9A.

#### **CHART 10: DOMINICA**



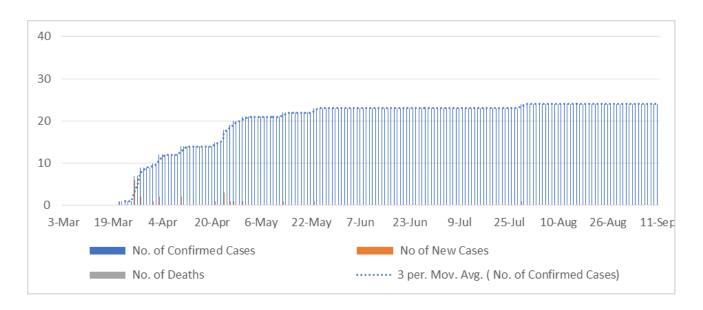
#### **CHART 10A: DOMINICA**



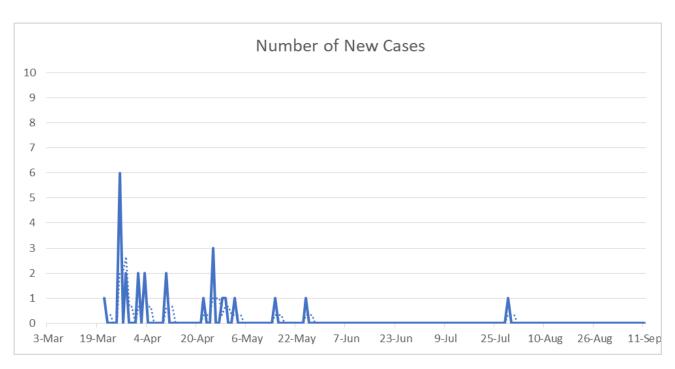
Note: Dominica had 2 new cases during the current reporting period, 5-11 September as compared to 1 new case during 29 August-4 September. The number of confirmed cases stood at 24 as at 11September with 4 active cases.

## **Special Topic Bulletin - COVID 19**

**CHART 11: GRENADA** 

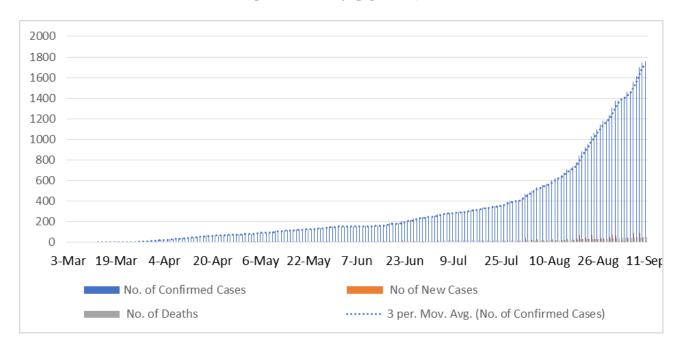


#### **CHART 11A: GRENADA**

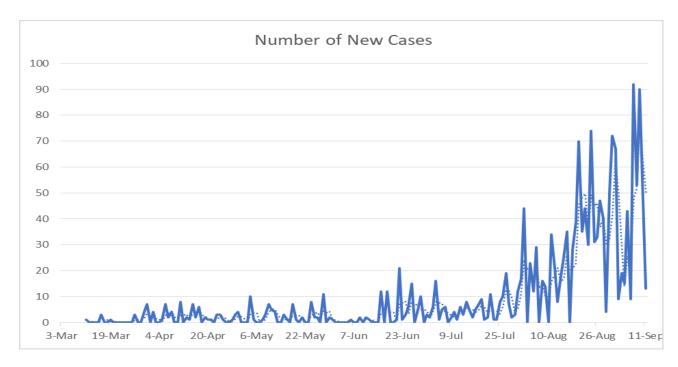


**Note**: Grenada had **no new cases** during the current reporting period **5-11 September**, similar to the last 5 reporting periods. The last new case for Grenada was on **29 July**. There were a couple of instances where passengers from Grenada tested positive upon arrival in other Member States. The number of cases stood at **24** with **no active cases**.

**CHART 12: GUYANA** 

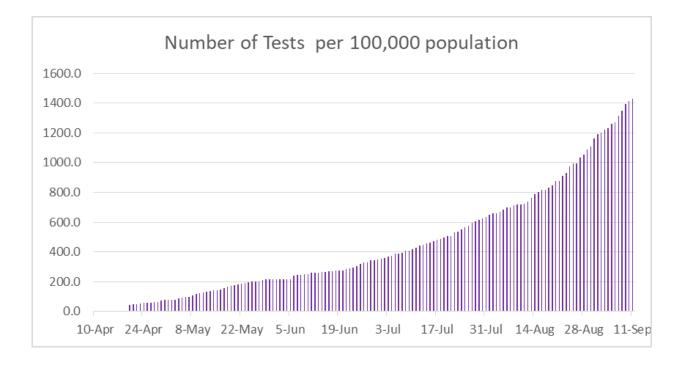


#### **CHART 12A: GUYANA**

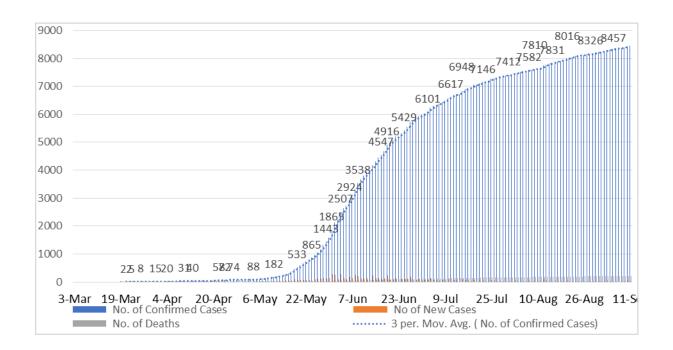


Note: In Guyana, there were 347 new cases during the current reporting period, 5-11 September as compared to 282 new cases during 29 August- 4 September. The number of confirmed cases for Guyana increased to 1763 with 567 active cases and 52 deaths (+8). The increase in the number of new cases is evident in Chart 12A.

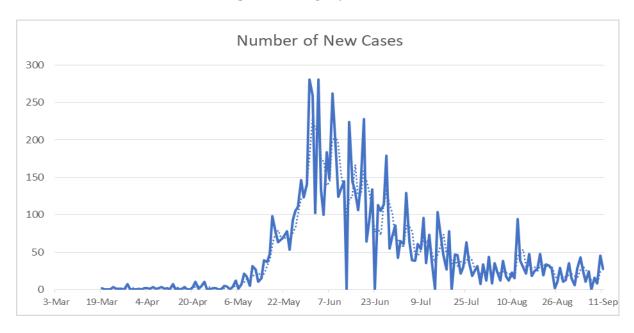
### **CHART 12B: GUYANA**



#### **CHART 13: HAITI**

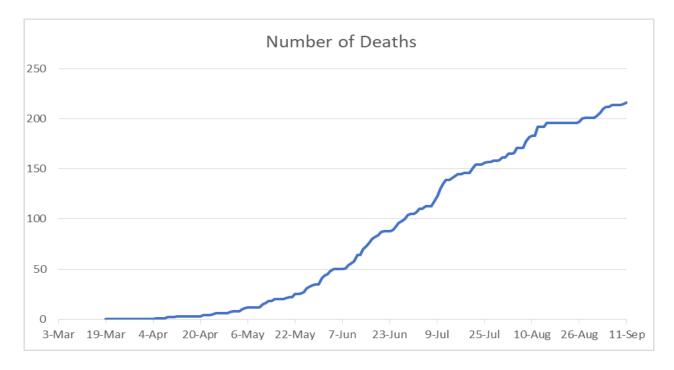


#### **CHART 13A: HAITI**

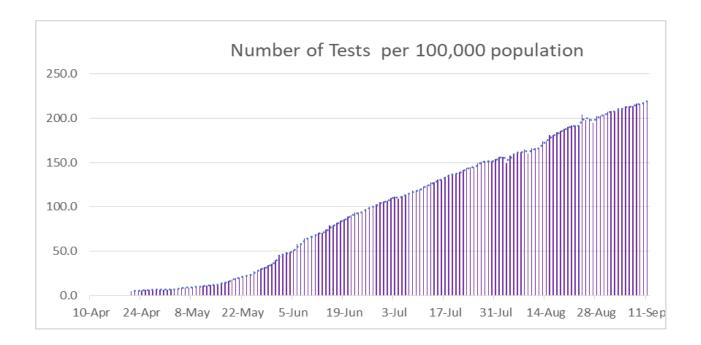


Note: Haiti had 131 new cases during the current reporting period, 5-11 September as compared to 165 new cases during 29 August-4 September, showing a general declining trend in the number of new cases. The total number of confirmed cases stood at 8457 as at 11 September with active cases at 2121. The number of deaths increased by 4 and is 216. The general declining trend for Haiti in the number of new cases is evident in Chart 13A.

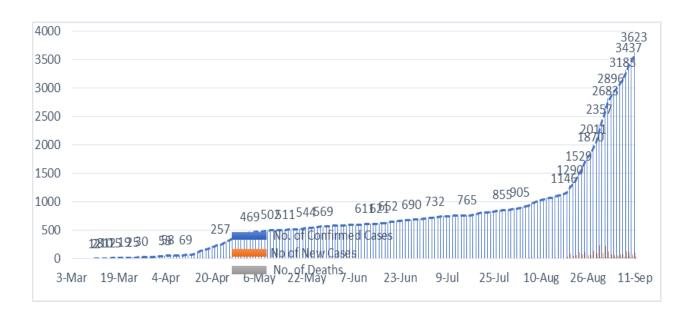
**CHART 13B: HAITI** 



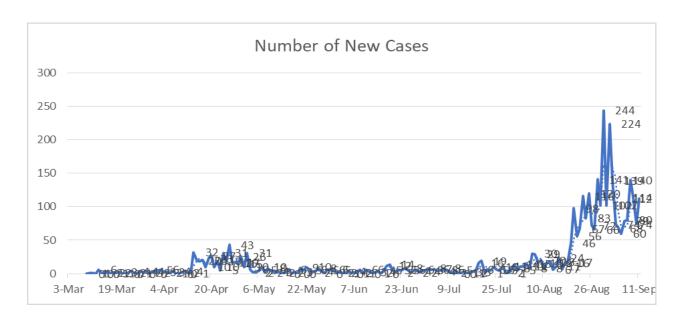
## **CHART 13C: HAITI**



**CHART 14: JAMAICA** 

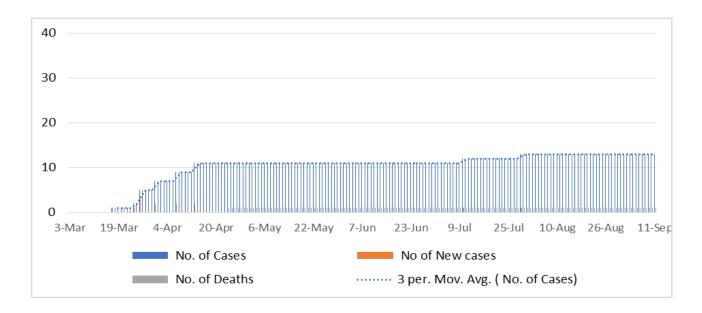


#### **CHART 14A: JAMAICA**

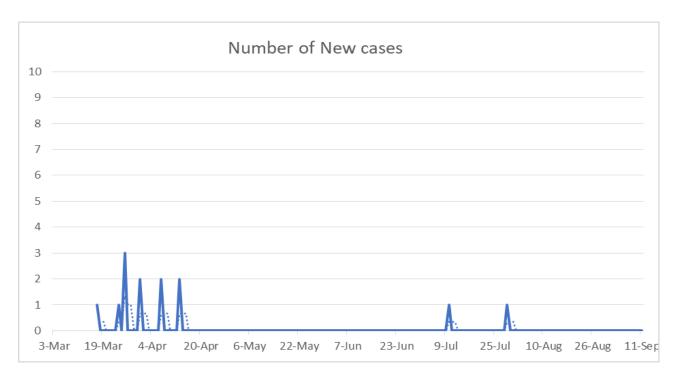


Note: Jamaica had 659 new cases, during the current reporting period, 5-11 September as compared to 953 new cases during 29 August – 4 September. The total number of confirmed cases stood at 3623 with 2431 active cases and 45 deaths (+12). Included in the 45 deaths are 5 deaths that are under investigation and excluded are 4 deaths that are due to non-COVID-19 causes. A total of 49 deaths have occurred of COVID-19 patients. The increasing trend in the number of new cases is evident in Chart 14A.

#### **CHART 15: MONTSERRAT**

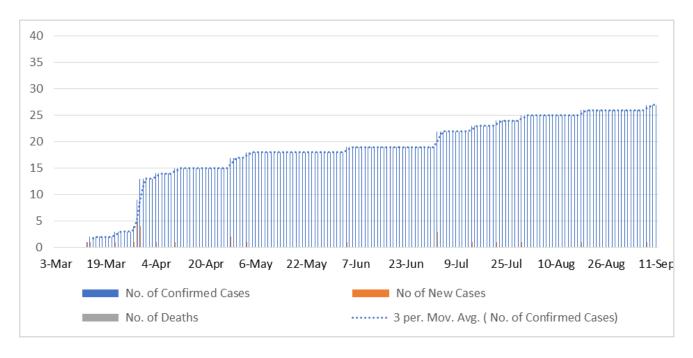


#### **CHART 15A: MONTSERRAT**

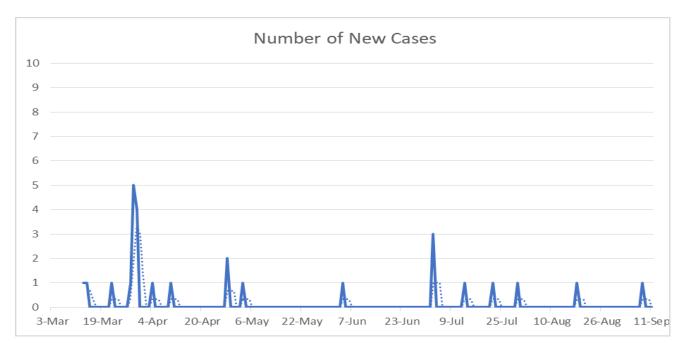


Note: There were no new cases in Montserrat during the current reporting period 5-11 September, similar to the past five reporting periods, 29 August- 4 September, 22-28 August, 15-21 August. 8-14 August and 1-7 August. The number of confirmed cases stood at 13 with no active cases.

**CHART 16: SAINT LUCIA** 

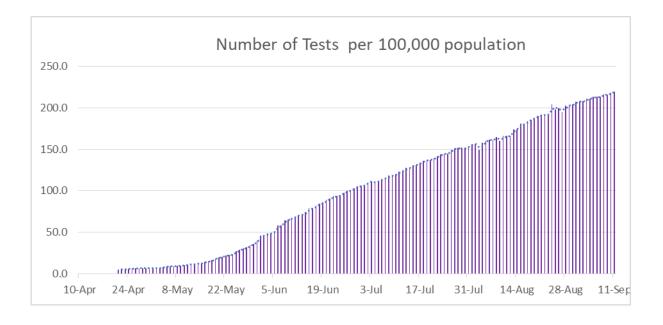


### **CHART 16A: SAINT LUCIA**



Note: There was one new case in Saint Lucia during the current reporting period, 5-11 September, as compared to no new cases 29 August – 4 September. The number of confirmed cases stood at 27 with one active case.

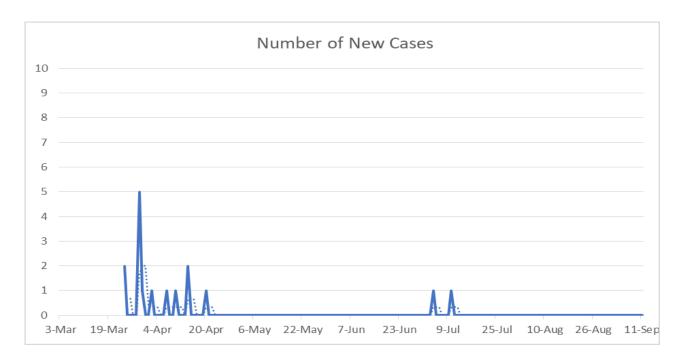
# **CHART 16B: SAINT LUCIA**



**CHART 17: ST. KITTS AND NEVIS** 

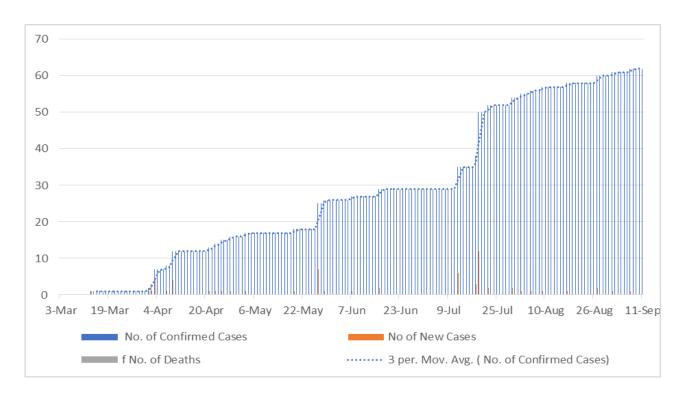


#### **CHART 17A: ST. KITTS AND NEVIS**

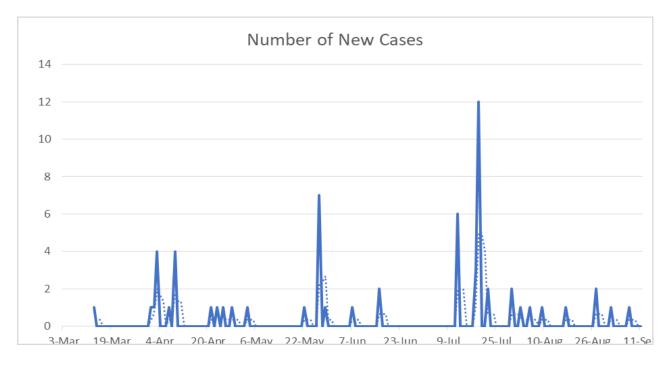


Note: There were no new cases in St Kitts and Nevis during the current reporting period 5-11 September, similar to the past five reporting periods, 29 August – 4 September, 22-28 August, 15-21 August, 8-14 August and 1-7 August. The number of confirmed cases stood at 17 with no active cases.

**CHART 18: ST. VINCENT AND THE GRENADINES** 

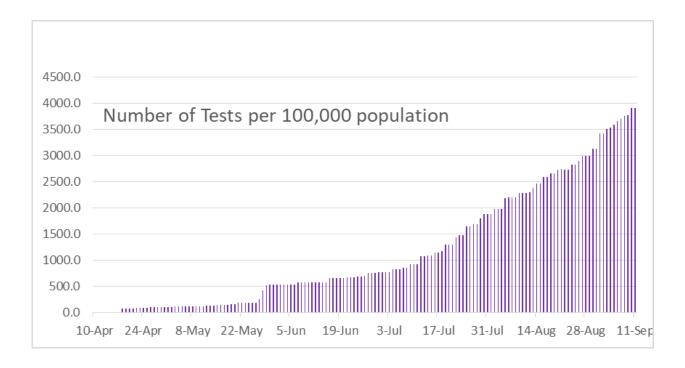


**CHART 18A: ST. VINCENT AND THE GRENADINES** 

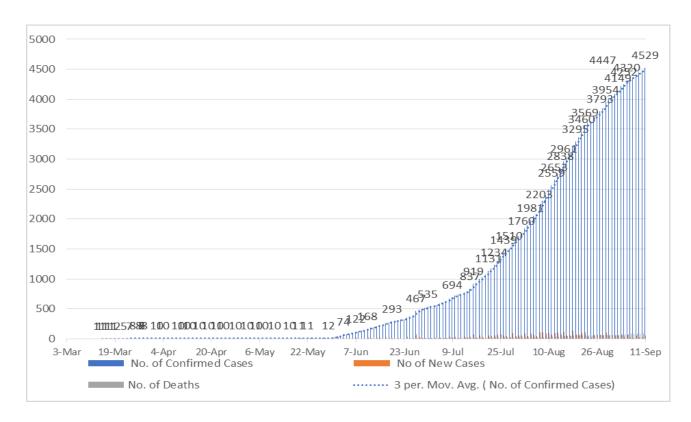


Note: There was one new case in St Vincent and the Grenadines for the current reporting period 5-11 September, similar to the last reporting period, 29 August- 4 September. The number of confirmed cases in St Vincent and the Grenadines as at 11 September was 62 with 4 active cases.

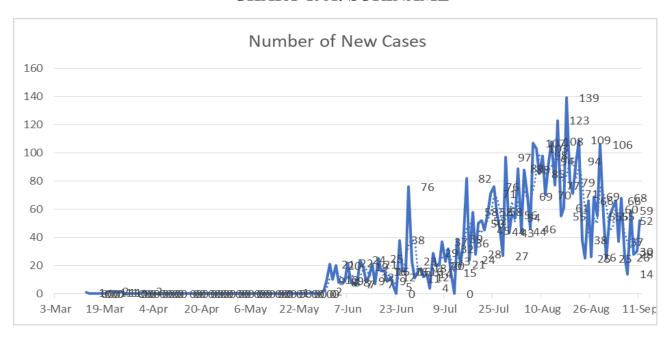
## **CHART 18B: ST. VINCENT AND THE GRENADINES**



#### **CHART 19: SURINAME**

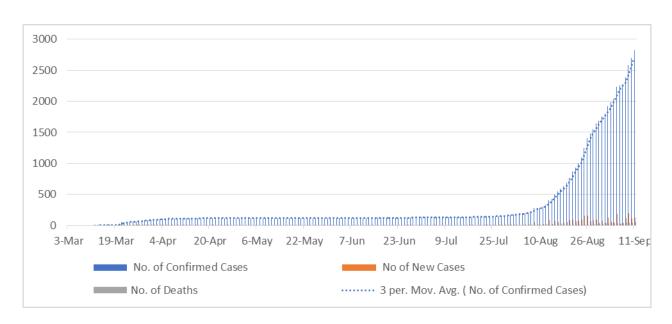


#### **CHART 19A: SURINAME**

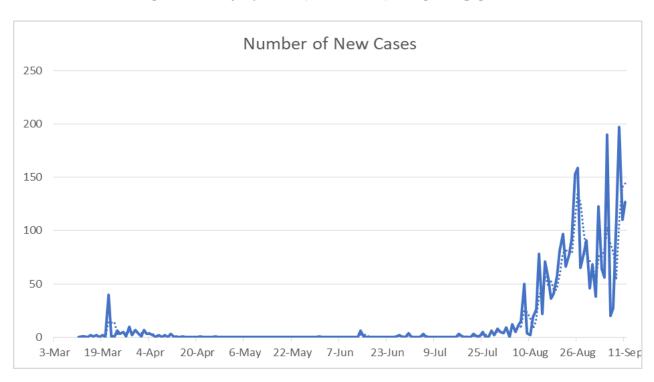


Note: Suriname had 277 new cases during the current reporting period 5-11 September, as compared to 404 new cases during 29 August-4 September. The number of confirmed cases for Suriname stood at 4529 with 689 active cases and 93 deaths (+15). The increasing trend in the number of new cases is evident in Chart 19 A. However, the number of new cases in recent weeks appears to be decreasing.

#### CHART 20: TRINIDAD AND TOBAGO -TOTAL CONFIRMED CASES

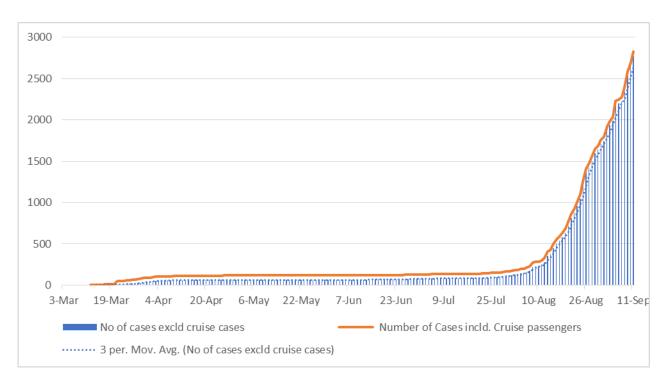


#### CHART 20A: TRINIDAD AND TOBAGO



Note: Trinidad and Tobago had 785 new cases during the current reporting period (the highest number for all countries), as compared to 486 new cases during 29 August- 4 September, 690 new cases during 22-28 August and 438 new cases during 15-21 August. The number of confirmed cases stood at 2825 with 2013 active cases and 50 deaths (+19). The increasing trend in the number of new cases is evident in Chart 20A.

#### CHART 20B: TRINIDAD AND TOBAGO - CRUISE PASSENGERS

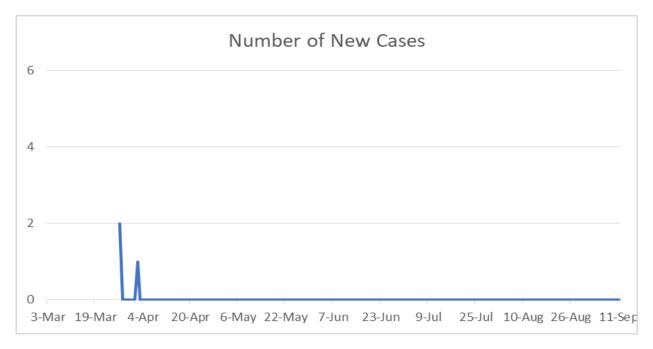


**Note**: The closing of the gap between the contribution to the total number of confirmed cases of the returning Cruise Ship passengers that tested positive around March and the number of cases excluding these passengers as seen in **Chart 20B**, reflects the substantial increase in the number of confirmed cases in this country in recent weeks. This country is stated to have **Community Spread** of the coronavirus.

**CHART 21: ANGUILLA** 

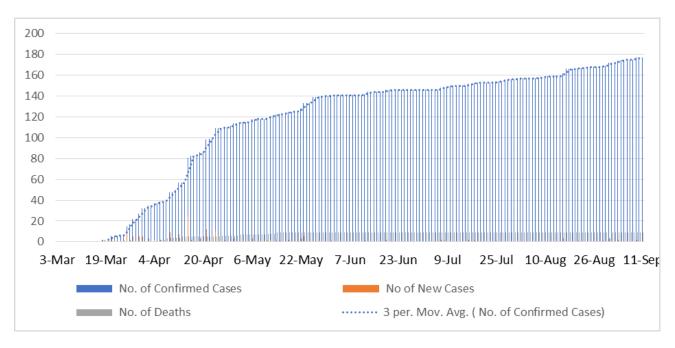


### **CHART 21A: ANGUILLA**

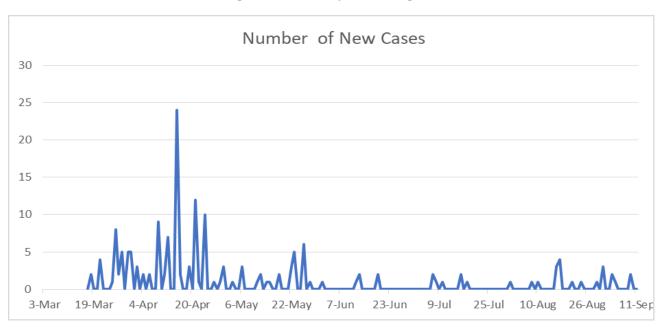


Note: The last positive case of COVID-19 in Anguilla was 2 April, a period of 163 days as at 11 September. The number of confirmed cases for Anguilla is  $\underline{3}$ .

#### **CHART 22: BERMUDA**

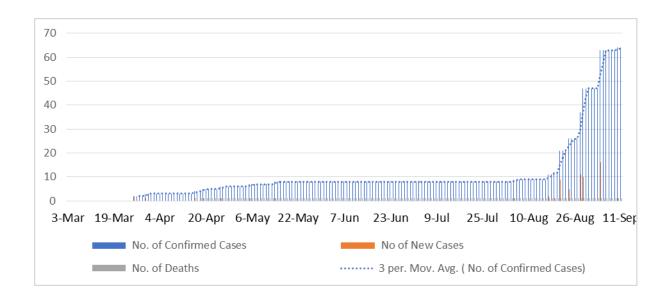


#### **CHART 22A: BERMUDA**

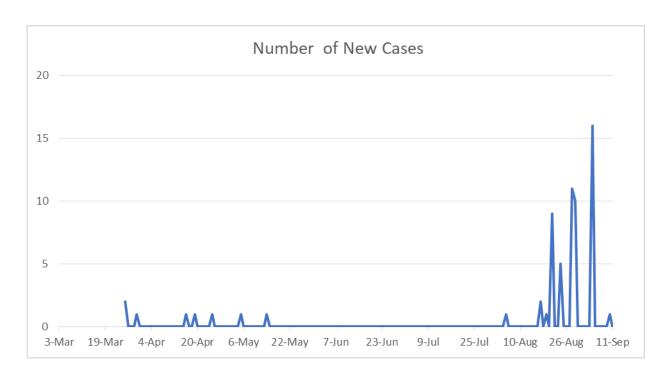


Note: Bermuda had 2 new cases during the current reporting 5-11 September as compared to 7 new cases during 29 August- 4 September. The number of confirmed cases for Bermuda stood at 177 as at 11 September with 7 active cases.

**CHART 23: BRITISH VIRGIN ISLANDS** 

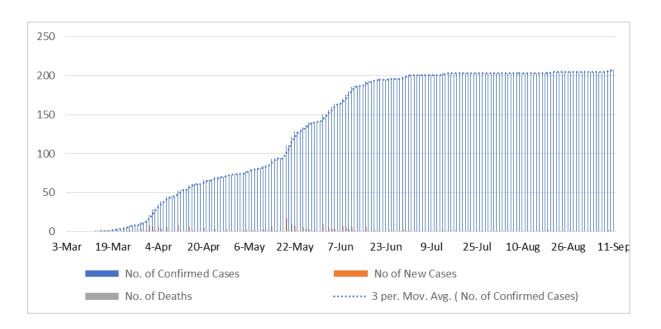


#### **CHART 23A: BRITISH VIRGIN ISLANDS**

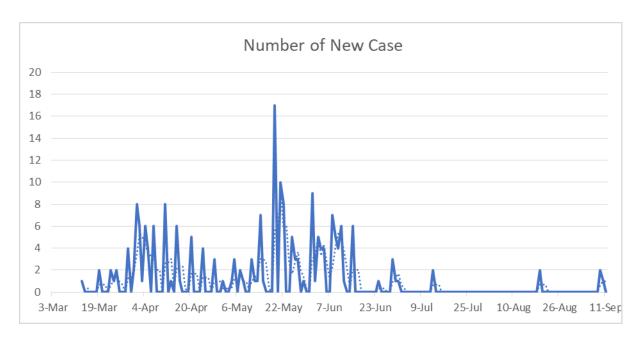


Note: In the British Virgin Islands, there was 1 new case during the current reporting period, 5-11 September as compared to 26 new cases during 29 August- 4 September, 16 new cases during 22-28 August and 12 new cases 15-21 August. The total number of confirmed cases stood at 64 with 33 active cases. From about 26 April - 16 August, the British Virgin Islands experienced 3 new cases only.

**CHART 24: CAYMAN ISLANDS** 

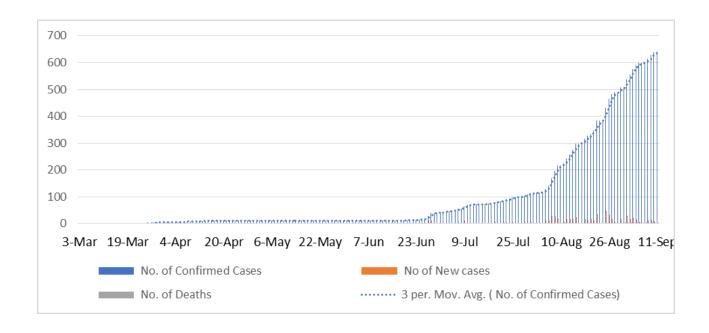


**CHART 24A: CAYMAN ISLANDS** 

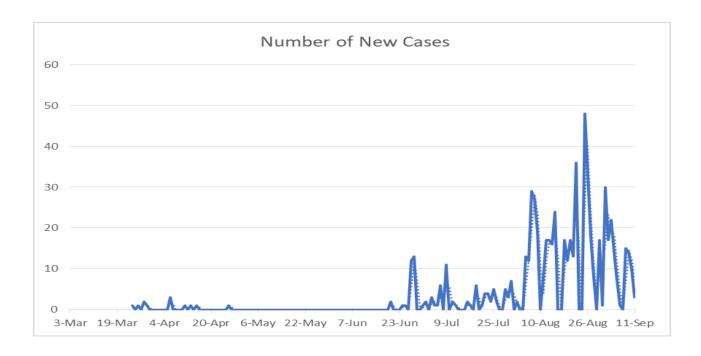


Note: There were 2 new cases in Cayman Islands during the current reporting period, 5-11 September as compared to no new cases during the last two reporting periods 29 August – 4 September and 22-28 August. The number of confirmed cases stood at 208 with 3 active cases.

**CHART 25: TURKS AND CAICOS ISLANDS** 



**CHART 25A: TURKS AND CAICOS ISLANDS** 



Note: Turks and Caicos Islands had 50 new cases during the current reporting period, 5-11 September, as compared to 101 new cases 29 August - 4 September, 143 new cases during 22-28 August and 73 new cases during 15-21 August. The number of cases stood at 641 with 365 active cases. The increasing trend in the number of new cases is evident in Chart 25A.

# **Special Topic Bulletin - COVID 19**

TABLE 8: TREND IN DOUBLING TIME -CARICOM AND SELECTED COUNTRIES

COUNTRY	PERIOD	NO. OF CASES	NO. OF DAYS
ALL COUNTRIES			
With Haiti	25 June 14 August	7597 15,355	50
Without Haiti	7 July 21 August	9005 18,069	45
With Haiti	21 July 28 August	10,528 21,002	38
Without Haiti	10 August 28 August	6470 12,841	18
With Haiti	31 July 4 September	12,036 24 099	35
Without Haiti	15 August 4 September	8,011 15,773	20
With Haiti	7 August 11 September	13,436 27,041	35 Rate: 2.01
Without Haiti	19 August 11 September	9,203 18,584	23 Rate: 2.02
The Bahamas	31 July 14 August	574 1119	14
	7 August 21 August	830 1703	14
	12 August 28 August	1036 2057	16
	15 August 4 September	1252 2476	20
	18 August 11 September	1424 2874	24 Rate: 2.02
Suriname	26 July 14 August	1439 2838	19
	31 July 21 August	1706 3460	21
	3 August 28 August	1893 3848	25
	6 August 4 September	2096 4252	29
	7 August 11 September	2203 4529	35 Rate: 2.1

**Special Topic Bulletin - COVID 19** 

#### DOUBLING OF CONFIRMED CASES IN SELECTED COUNTRIES

# The Bahamas

**Doubling (2.02) 24 days** 



**Belize** 

**Doubling (2.01) 18 days** 

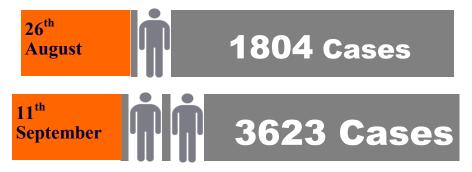


Guyana

Doubling (2.1) 22 days



**Jamaica** (monitoring reintroduced) Doubling (2.01) 16 days



#### DOUBLING OF CONFIRMED CASES IN SELECTED COUNTRIES

# **Suriname** Doubling (2.1) - 35 days



# Trinidad and Tobago

**Doubling (2.00) 16 days** 



# **Turks and Caicos Islands**

Doubling (2.03) 24 days



# **TABLE 9: EXPLANATIONS**

Key Term/Issues	Explanation
Data on Testing	Testing for the occurrence of COVID-19 provides an understanding of the pandemic. It tells us how the virus is spreading. Testing should be able to tell us about the total number of cases or persons infected. However given the availability or lack thereof of equipment for testing and the establishment of protocols in many countries that invariably implies that persons should fulfil stated criteria to qualify to be tested, it is likely that the total number of cases are unknown.
	This data set on testing has increasingly become available for most CARICOM countries with some countries consistently reporting this information. A possible difference in the data is that the tests are performed in different testing laboratories across countries. In some cases testing is done for countries or validated by the Caribbean Public Health Agency (CARPHA) while in other cases they are conducted at national laboratories. Another difference is that tests may include repeated testing for confirmed cases to determine whether these persons have recovered. It is also possible that different types of tests are being reported.
	Why is data on testing needed?
	The simple answer is that without data on tests conducted on the COVID-19 we cannot possibly understand how the pandemic is progressing, and which contacts to trace and to quarantine.
Projections	The projections in this and previous Issues largely rely on using observed doubling rates, the rates of change of the latest period of data (prior to the estimation) or using fitted trend lines. No sophisticated modelling has been utilised.
	For example in the case of Chart 2, a linear projection is undertaken and the equation of that straight line is given as follows: $y = -103.42 + 25.045 x$
	Where y represents the number of confirmed cases and x the number of time periods from the commencement of the first case.
	Simply put, it is possible to use this equation to obtain predicted values. Assuming that it is necessary to calculate the number of predicted cases on the 29 <sup>th</sup> April as per the linear trend, the number of time periods (x- value) from the 10 March is roughly 50 so the predicted value works out as follows:
	$y_p = -103.42 + 25.045 \times 50 = 1252.25 -103.42 = 1148.83.$
	The actual value for this same period is 1178 confirmed cases.

# **Special Topic Bulletin - COVID 19**

**TABLE 9: EXPLANATIONS** 

Key Term/Issue	Explanation
Number of Cases per 100, 000 population	The number of cases per 100,000 population is calculated by dividing the number of cases by the total population, and then multiplying the result by a standard population size in this case 100,000.
	$Rate = \frac{No.of\ Confirmed\ Cases}{Total\ Population}\ x\ 100,000$
	It is useful for comparing countries/regions of varying population sizes
	For very small values/small populations these rates may be unstable.

#### **KEY REGIONAL AND INTERNATIONAL LINKS ON COVID-19**

CARICOM Today:- <a href="https://today.caricom.org/covid19/regional/">https://today.caricom.org/covid19/regional/</a>

Regional Statistics Programme (RSP): http://statistics.caricom.org/covid19 bulletin.html

UN DATA HUB:- <a href="https://covid-19-response.unstatshub.org/useful-links/international-organisations-resources/">https://covid-19-response.unstatshub.org/useful-links/international-organisations-resources/</a>

CARPHA (Caribbean Public Health Agency) - <a href="https://carpha.org/What-We-Do/Public-Health/Novel-Coronavirus">https://carpha.org/What-We-Do/Public-Health/Novel-Coronavirus</a>

Article: Tracking the Covid-19 Pandemic in CARICOM- Statistics of a Pandemic

https://today.caricom.org/2020/05/04/tracking-covid-19-pandemic-in-caricom/

Please note that this Newsletter will be on the Regional Statistics Programme's (RSP) website as well as on the UN Data Hub.

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