



TRINIDAD AND TOBAGO

CHAGUANAS

NDPBA MUNICIPALITIES PROFILE

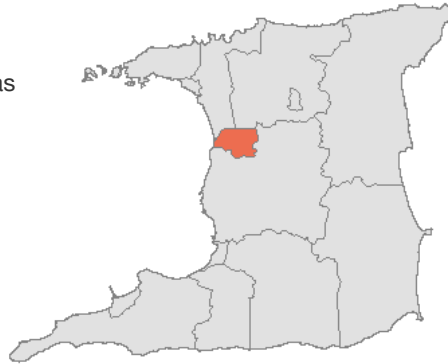
TRINIDAD AND TOBAGO CHAGUANAS



CAPITAL: CHAGUANAS

Area: 59 km²

The Borough of Chaguana is the one of the smaller municipalities/regional corporations in the country. Chaguana is bordered by the San Juan-Laventille and Tunapuna-Piarco Regional Corporations to the north, the Municipality of Couva-Tabaquite-Talparo to the south and east, and a small portion of coastline to the west. Geographic features include proximity to the Caroni Swamp, river systems, low-lying arable land, and coastline. Conversion of large expanses of agricultural land for urban residential and commercial development purposes are predominant land uses. Primary economic drivers are retail activity and some light industrial manufacturing.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - High
Score: 0.516 • Rank: 5/15



RESILIENCE (R) - Moderate
Score: 0.512 • Rank: 10/15



MULTI-HAZARD EXPOSURE (MHE) - High
Score: 0.571 • Rank: 5/15



VULNERABILITY (V) - Moderate
Score: 0.425 • Rank: 9/15



COPING CAPACITY (CC) - Low
Score: 0.449 • Rank: 11/15



Population (2011 Census)
83,516



Population in Poverty
8.9%



Population with less than a secondary education
24.5%



Access to improved water
98.8% households



Infant mortality rate (per 1,000 live births)
99

*For more information on data and components please visit: <https://bit.ly/2LqVoUO>



MULTI-HAZARD EXPOSURE (MHE)

RANK: 5 / 15 MUNICIPALITIES
SCORE: 0.571



MHE
0.571

Raw MHE
0.405

Relative MHE
0.738

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

100.0%

91,010

\$3.7 Billion



Flood

99.0%

90,115

\$3.7 Billion



Landslide

3.9%

3,544

\$294.9 Million



Coastal Flood

15.0%

13,614

\$353.4 Million



Tropical Cyclone Winds

100.0%

91,010

\$3.7 Billion



Wildfire

72.6%

66,070

\$3.1 Billion




VULNERABILITY (V)

RANK: 9 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.425

Vulnerability in Chaguanas is primarily driven by Population Pressures and Gender Inequality. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.




Environmental Stress

0  1 **SCORE: 0.478** **RANK: 9/15 MUNICIPALITIES ASSESSED**

0.3% Households affected by deforestation	28% Households affected by drainage issues	17.0% Households affected by flooding	2.89% Households affected by sewage issues	0.8% Households affected by soil erosion	1.8% Households affected by solid waste issues	2.0% Households affected by wastewater issues	2.4% Households affected by water contamination
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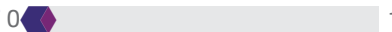
Vulnerable Health Status

0  1 **SCORE: 0.472** **RANK: 4/15 MUNICIPALITIES ASSESSED**

20.6% Persons with chronic illness	99.4 Infant mortality rate (per 1k live births)	3.9% Persons with long-standing disability	0.0% Population in collective living quarters	0.84 Chikungunya cases per 10k	0.60 Dengue cases per 10k	5.51 Zika cases per 10k	0.48 Leptospirosis cases per 10k
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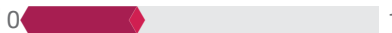
Clean Water Vulnerability

0  1 **SCORE: 0.058** **RANK: 13/15 MUNICIPALITIES ASSESSED**

98.8% Households with access to improved water	3.6% Households with inadequate toilet facilities
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Information Access Vulnerability

0  1 **SCORE: 0.315** **RANK: 12/15 MUNICIPALITIES ASSESSED**

24.5% Population with less than secondary education	53.2% Households with no Internet	9.4% Households with no TV	19.0% Households with radio
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Economic Constraints

0  1 **SCORE: 0.074** **RANK: 14/15 MUNICIPALITIES ASSESSED**

36.9 Age dependency ratio	40.1% Households with no vehicle	8.7% Population with unmet housing need	8.9% Poverty rate
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Gender Inequality

0  1 **SCORE: 0.689** **RANK: 2/15 MUNICIPALITIES ASSESSED**

0.66


Female to male labor participants

0.93

Female to male secondary education attainment



Population Pressures

0  1 **SCORE: 0.890** **RANK: 2/15 MUNICIPALITIES ASSESSED**

2.0%

Average annual population change

54.2

Net migration rate




COPING CAPACITY (CC)

RANK: 11 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.449

Chaguanas exhibits weaker Coping Capacity in the areas of Communications Capacity and Economic Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.




Economic Capacity

0  1 **SCORE: 0.405** **RANK: 9/15 MUNICIPALITIES ASSESSED**

46.2% Labor force participation rate
\$5,453 Annual household income per capita (USD)
1.3 Financial institutions per 10k persons



Governance

0  1 **SCORE: 0.666** **RANK: 6/15 MUNICIPALITIES ASSESSED**

117.1 Serious crimes reported per 10k persons
42.8% Voter participation
2.0% Households with unmet need for refuse collection



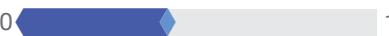
Environmental Capacity

0  1 **SCORE: 0.017** **RANK: 11/15 MUNICIPALITIES ASSESSED**

0.8% Protected areas (sq km)



Infrastructure Capacity

0  1 **SCORE: 0.419** **RANK: 9/15 MUNICIPALITIES ASSESSED**



Health Care Capacity

SCORE: 0.239 **RANK: 11/15 MUNICIPALITIES ASSESSED**

0.2 Health care facilities (per 10k persons)
13.3 Average distance to hospital (km)
18.3% Population with private health insurance



Transportation Capacity

SCORE: 0.629 **RANK: 5/15 MUNICIPALITIES ASSESSED**

10.9 Road density (km per sq. km)
9.7 Average distance to nearest port (km)



Communications Capacity

SCORE: 0.300 **RANK: 13/15 MUNICIPALITIES ASSESSED**

87.0% Population using mobile phones
5.4 Mobile and wireless infrastructure (per 10k persons)



Emergency Services Capacity

SCORE: 0.510 **RANK: 8/15 MUNICIPALITIES ASSESSED**

3.0 Average distance to fire station (km)
2.0 Average distance to police station (km)
1.2 Emergency shelters (per 10k persons)



RESILIENCE (R)

RANK: 10 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.512

Chaguana's score and ranking are due to Moderate Vulnerability combined with Low Coping Capacity scores.

Below are the four thematic areas with the weakest relative scores:



Population Pressures



Gender Inequality



Communications Capacity



Economic Capacity



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 8 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.319



Coastal Flood

RANK: 10 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.197



Flood

RANK: 4 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.334



Landslide

RANK: 14 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.008



Wildfire

RANK: 1 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.430



Tropical Cyclone Winds

RANK: 8 / 15 MUNICIPALITIES ASSESSED
SCORE: 0.319



MULTI-HAZARD RISK (MHR)

5 / 15

RANK WITHIN MUNICIPALITIES
Score: 0.516



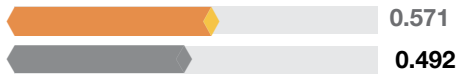
Chaguanas's score and ranking are due to High Multi-hazard Exposure combined with Moderate Vulnerability and Low Coping Capacity scores.



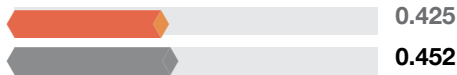
Multi-hazard risk component scores compared to overall average country scores:



Multi-Hazard Exposure



Vulnerability



Coping Capacity



CHAGUANAS RECOMMENDATIONS

1

Population Pressures

Chaguanas ranks 2nd overall for Population Pressures, with the 2nd highest Average Annual Population Growth (2%) and 3rd highest Net Migration Rate (54.2 per 1,000). Rapid population growth and urbanization in Chaguanas has led to a number of issues related to rapid and unplanned development. Pollution, traffic congestion, illegal land and building development practices, inadequate social facilities, poor drainage infrastructure and waste management practices, and damage to fragile ecosystems are among the issues cited in the Chaguanas Regional Corporation Local Area Economic Profile.

Strengthen short- and long-term development planning through multi-stakeholder engagement. Increase oversight in planning processes to anticipate the needs of the growing population and encourage equitable distribution of services and infrastructure – including housing, transportation, health care, and communications.

Strengthen enforcement of engineering standards and building codes and provide incentives for the implementation of risk reduction initiatives as new infrastructure and housing developments ensue to minimize future damages and losses resulting from the impacts of natural hazards.

2

Gender Inequality

Findings show that Chaguanas ranks 2nd for overall Gender Inequality, driven by the 3rd highest gender disparity related to Secondary School Enrollment, and the 7th highest disparity with regards to Labor Ratio.

Partner with government ministries and non-governmental organizations (NGOs) to expand implementation of programs and support centers such as the Unemployment Relief Programme (URP) and the Women's Entrepreneurship Resource Centre (WERC) to increase opportunities for employment and self-employment for women and girls.

Chaguanas has a high adolescent birth rate (52 per 1,000 women age 15-19) according to the Chaguanas Local Area Economic Profile. Promote workforce opportunities for women that include quality, affordable childcare to increase participation in the labor force and reduce economic dependency.

CHAGUANAS RECOMMENDATIONS

3

Communications Capacity

Chaguanas has the 3rd lowest Communications Capacity score, driven by the 3rd lowest density of Mobile and Wireless Infrastructure in the country.

Invest in and plan for expansion of communications infrastructure to accommodate the information needs of the growing population.

Strengthen local government initiatives to increase the use of information communication technologies that allow residents to access online services and information.

4

Economic Capacity

Chaguanas has the 7th lowest overall Economic Capacity in the country, driven by the 4th lowest Household Income per Capita (\$5,453). Once largely agriculture-based, the local economy is now based primarily on retail activity and light industrial manufacturing. Areas of economic expansion and diversification include non-sugar related agriculture, agro-processing, the food and beverage market, construction, transport, cultural and creative industries, and tourism.

Implement programs geared toward building vocational, entrepreneurial, and technical skills of residents and small business owners to support transition into higher wage jobs as employment opportunities in Chaguanas grow.

**Better solutions.
Fewer disasters.**

Safer world.

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