

TRINIDAD AND TOBAGO

TOBAGO

NDPBA MUNICIPALITIES PROFILE



TRINIDAD AND TOBAGO TOBAGO

CAPITAL: SCARBOROUGH

Area: 300 km²

The Island of Tobago is the seventh largest of the municipalities/regional corporations in the country and home to nearly 76,000 people (according to the 2011 Census). Tobago is located 30km northeast of the island of Trinidad. Geographic features include mountainous to flat terrain, forest reserves, beaches and coral reefs. Land use is predominantly rural in the north eastern part of the island, with more commercial and industrial uses in southwest Tobago. Primary economic drivers are tourism and fishing.



RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very Low

Score: 0.299 • Rank: 15/15



RESILIENCE (R) - Very High

Score: 0.589 • Rank: 1/15



MULTI-HAZARD EXPOSURE (MHE) - Very Low

Score: 0.073 • Rank: 15/15



VULNERABILITY (V) - Low

Score: 0.375 • Rank: 12/15



COPING CAPACITY (CC) - Very High

Score: 0.553 • Rank: 3/15



Population (2011 Census)

60.874



Population in Poverty

19.0%



Population with less than a secondary education

31.9%



Access to improved water

97.7% households



Infant mortality rate (per 1,000 live births)

54



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MULTI-HAZARD EXPOSURE (MHE)

RANK: 15 / 15 MUNICIPALITIES

SCORE: 0.073



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

100.0%

& 64,116

\$2.5 Billion



Flood

5.4%

3,479

\$85.1 Million



Landslide

36.6%

23,469

\$1.4 Billion



Coastal Flood

17.5%

11,235

\$210.6 Million



Tropical Cyclone Winds

100.0%

4 64,116

\$2.5 Billion



Wildfire

5.6%

å 3,580

\$51.3 Million



VULNERABILITY (V)

RANK: 12 / 15 MUNICIPALITIES ASSESSED

SCORE: 0.375

Vulnerability in Tobago is primarily driven by Economic Constraints and Information Access Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Environmental Stress

SCORE: 0.371 RANK: 11/15 MUNICIPALITIES ASSESSED 1

0.5% Households affected by

15% Households affected by deforestation drainage issues 7.1% Households affected by flooding

1.58% Households affected by

6.3% Households affected by soil sewage issues erosion

1.8% Households affected by solid waste issues

2.4% Households affected by wastewater issues

1.7% Households affected by water contamination



Vulnerable Health Status

SCORE: 0.202 RANK: 15/15 MUNICIPALITIES ASSESSED

18.2% Persons with chronic illness

54.3 Infant mortality rate (per 1k live births)

3.1% Persons with long-standing disability

0.1% Population in collective living quarters

SCORE: 0.307

Chikungunya cases per 10k

Dengue cases per 10k

RANK: 10/15 MUNICIPALITIES ASSESSED

Zika cases per

10k

Leptospirosis cases per 10k



Clean Water Vulnerability

facilities

11.4% 97.7% Households with Households inadequate toilet with access to



Information Access Vulnerability

SCORE: 0.530

RANK: 6/15 MUNICIPALITIES ASSESSED

31.9% Population with less than secondary education

improved water

61.4% Households with no Internet

11.8% Households with no TV

18.4% Households with radio

Economic Constraints



45.9 54.3% Age

dependency

ratio

11.4% Households Population with unmet housing with no vehicle need

19.0% Poverty rate

1 SCORE: 0.571

RANK: 6/15 MUNICIPALITIES ASSESSED

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Gender Inequality

RANK: 13/15 MUNICIPALITIES ASSESSED

SCORE: 0.460 RANK: 6/15 MUNICIPALITIES ASSESSED

0.87

Female to male labor participants

1.05 Female to male secondary education attainment

SCORE: 0.187

Population Pressures

1.1% 20.4

Average annual population change

Net migration rate



COPING CAPACITY (CC)

RANK: 3 / 15 MUNICIPALITIES ASSESSED

SCORE: 0.553

RANK: 12/15 MUNICIPALITIES ASSESSED

Tobago exhibits weaker Coping Capacity in the areas of Governance and Transportation Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.



Economic Capacity

\$4.468

SCORE: 0.557 RANK: 5/15 MUNICIPALITIES ASSESSED

51.5%

Labor force Annual household participation rate income per capita

Financial institutions per 10k persons

SCORE: 0.503

Governance

Serious crimes

persons

reported per 10k

131.8 50.0%

6.2% Voter Households with participation unment need for refuse collection

Environmental Capacity

SCORE: 0.413 RANK: 6/15 MUNICIPALITIES ASSESSED

20.0%

Protected areas (sq km)



Infrastructure Capacity

RANK: 3/15 MUNICIPALITIES ASSESSED SCORE: 0.644



Health Care Capacity SCORE: 0.642 **RANK: 2/15 MUNICIPALITIES ASSESSED**

3.1 Health care facilities (per 10k persons)

Average distance to hospital (km)

6.4

Population with private health

13.3%



Transportation Capacity SCORE: 0.510 RANK: 9/15 MUNICIPALITIES ASSESSED

2.7

Road density (km per sq. km)

Average distance to nearest port (km)



Communications Capacity SCORE: 0.670 RANK: 3/15 MUNICIPALITIES ASSESSED

86.6%

19.3

Population using mobile phones

Mobile and wireless infrastructure (per 10k persons)



Emergency Services Capacity SCORE: 0.754 RANK: 3/15 MUNICIPALITIES ASSESSED

2.7

12.3

Average distance to fire station (km)

Average distance to police station (km)

Emergency shelters (per 10k persons)



RESILIENCE (R)

RANK: 1 / 15 MUNICIPALITIES ASSESSED

SCORE: 0.589

Tobago's score and ranking are due to Low Vulnerability combined with Very High Coping Capacity scores.

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







Information Access Vulnerability



Governance



Transportation Capacity



HAZARD-SPECIFIC RISK (HSR)

Earthquake	RANK: 13 / 15 MUNICIPALITIES ASSESSED SCORE: 0.243
Coastal Flood	RANK: 11 / 15 MUNICIPALITIES ASSESSED SCORE: 0.149
Flood	RANK: 15 / 15 MUNICIPALITIES ASSESSED SCORE: 0.000
Landslide	RANK: 9 / 15 MUNICIPALITIES ASSESSED SCORE: 0.146
Wildfire	RANK: 11 / 15 MUNICIPALITIES ASSESSED SCORE: 0.039
Tropical Cyclone Winds	RANK: 13 / 15 MUNICIPALITIES ASSESSED SCORE: 0.243



MULTI-HAZARD RISK (MHR)



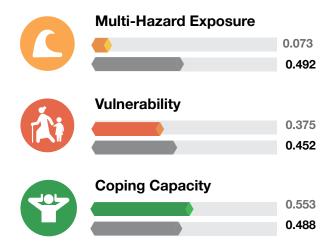
15 / 15
RANK WITHIN MUNICIPALITIES

Score: 0.299

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



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



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TOBAGO RECOMMENDATIONS

1

Economic Constraints

Tobago has the 6th highest overall ranking for Economic Constraints, driven by the 3rd highest Age Dependency Ratio (46 per 100 working-age people). Tobago's high dependency ratio may limit household incomes to one wage-earner, preventing increases in economic mobility, and could present challenges for evacuation, particularly for those who are very young, have mobility challenges, or do not own a vehicle.

Expand programs that provide workforce opportunities for women that include quality, affordable childcare to boost participation in the labor force and reduce economic dependency.

Promote school to work programs that provide vocational and technical training and prepare students to enter the workforce.

2

Information Access Vulnerability

Tobago ranks 6th for overall Information Access Vulnerability. Nearly a third of the population (32%) has less than a Secondary Education, and two-thirds (61%) of households do not have Internet Access. These factors can influence the abilities of the population to prepare for disasters, as well as receive, understand, and act upon hazard warning information. Design and implement intervention strategies to reduce dropout rates and promote and sustain engagement of students in secondary-level education.

Online access to hazard information for Tobago is extremely limited which reduces residents' ability to learn about the hazards that could affect them and the immediate response actions necessary to protect their health and safety. Improve online access to hazard and preparedness information, including up-to-date maps of hazard zones through the Tobago Emergency Management Agency website.

Implement community-based hazard awareness and preparedness campaigns using locally relevant, historical hazard information that is understandable to a wide range of audiences including the very young, elderly, and differently-abled. Boost public-private collaboration and coordination to ensure that hazard warning information is disseminated as broadly as possible through multiple communications channels.

TOBAGO RECOMMENDATIONS



Governance

Tobago ranks 12th out of all municipalities/regional corporations for overall Governance. Despite having one of the highest Voter Participation Rates in the country, Tobago has the 4th highest Crime Rate and the 4th highest percentage of households with an Unmet Need for Refuse Collection. Improve the levels of municipal service that collect and responsibly dispose of solid waste. Expand and communicate options for disposal and/or recycling of old vehicles, non-working appliances and hazardous materials to minimize impacts on the environment and reduce random dumping.

Continue to implement the Ministry of National Security's (MNS)
Citizen Security Programme (CSP) in high needs communities to strengthen institutional capacities of the MNS and local police, build public confidence and citizen support of measures to improve safety and security, and coordinate implementation of community-based crime prevention strategies. Boost policing resources and capacity to respond effectively to street gangs and organized crime groups.

Increase availability of financial assistance and social services to poor and marginalized populations to reduce dependence upon informal social control mechanisms offered by criminal groups.



Transportation Capacity

Tobago has the 4th lowest Road Density in relation to other municipalities/ regional corporations in the country. Many of these are located along the coast and exposed to high surf, coastal erosion and flooding. As sea-levels rise, impacts on transportation networks in low-lying coastal areas will become greater.

Assess the feasibility of applying mitigation strategies to existing roadways to increase their capacity to withstand hazard impacts. Hardening and expansion of transportation networks will support timely disaster response and recovery operations, access to health care, and the transport of goods and services.

Implement risk reduction initiatives as part of all new transportation infrastructure installations to bolster long-term Transportation Capacity.

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1305 N Holopono Street Suite 2, Kihei, HI 96753 P: (808) 891-0525 F: (808) 891-0526



@PDC_Global







ndpba@pdc.org