

TRINIDAD AND TOBAGO

TUNAPUNA-PIARCO

NDPBA MUNICIPALITIES PROFILE



TRINIDAD AND TOBAGO TUNAPUNA-PIARCO



CAPITAL: TUNAPUNA

Area: 510 km²

Situated in north central Trinidad, the Municipality of Tunapuna-Piarco is the fifth largest and most populous municipality/regional corporation in the country. Tunapuna-Piarco is bordered by the Caribbean Sea to the north, Sangre Grande to the east, the Borough of Chaguanas and Municipality of Couva-Tabaquite-Talparo to the south, and San Juan-Laventille to the east. Tunapuna-Piarco completely encompasses the Borough of Arima. Geographic features include coastline to the north, the Northern Range and foothills, and rivers, floodplains and alluvial flats of the Northern Basin. Land use is predominantly agricultural, including fishing and forestry. Primary economic drivers are retail and distribution, personal services, tertiary education, and tourism.



RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very High

Score: 0.623 • Rank: 1/15



RESILIENCE (R) - High

Score: 0.566 • Rank: 5/15



MULTI-HAZARD EXPOSURE (MHE) - Very High

Score: 1.000 • Rank: 1/15



VULNERABILITY (V) - Very Low

Score: 0.365 • Rank: 14/15



156

COPING CAPACITY (CC) - High

Score: 0.497 • Rank: 6/15



Population (2011 Census)

215.119



Population in Poverty

10.5%



Population with less than a secondary education

24.1%



Access to improved water

98.1% households



Infant mortality rate (per 1,000 live births)

33

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

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MULTI-HAZARD EXPOSURE (MHE)

RANK: 1 / 15 MUNICIPALITIES

SCORE: 1.000



MHE 1.000

Raw MHE

1

Relative MHE
1

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

100.0%

215,354 \$11.7 Billion

₩

Flood

97.8%

210528 \$11.6 Billion



Landslide

78.9%

å 169,974

\$10.3 Billion



Coastal Flood

10.2%

22,051

\$1 Billion



Tropical Cyclone Winds

100.0%

♣ 215,354 \$11.7 Billion



Wildfire

44.9%

♣ 96,717 \$6.5 Billion



VULNERABILITY (V)

RANK: 14 / 15 MUNICIPALITIES ASSESSED

SCORE: 0.365

Vulnerability in Tunapuna-Piarco is primarily driven by Environmental Stress and Gender Inequality. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Environmental Stress

1 SCORE: 0.495

19% 14.4% 2.35%

Households affected by drainage issues flooding

2.35%
Households
affected by
sewage issues

2.4%

s Households
affected by soil erosion

2.7%
Households
affected by solid
waste issues

RANK: 8/15 MUNICIPALITIES ASSESSED

1.4%
Households
affected by
wastewater issues

2.5%
Households
affected by water
contamination



Vulnerable Health Status

1 SCORE: 0.419 RANK: 9/15 MUNICIPALITIES ASSESSED

19.7%
Persons with chronic illness

0.9%

Households

affected by

deforestation

33.4 Infant mortality rate (per 1k live births) **3.5%**Persons with long-standing disability

1.3%

Population in collective living quarters

SCORE: 0.181

2.09 Chikungunya cases per 10k **0.79**Dengue cases per 10k

RANK: 11/15 MUNICIPALITIES ASSESSED

4.37
Zika cases per

0.74Leptospirosis cases per 10k



Clean Water Vulnerability

1

facilities

98.1%
Households
with access to
Households with inadequate toilet



Information Access Vulnerability

0 SCORE: 0.460 RANK: 7/15 MUNICIPALITIES ASSESSED

24.1%
Population with less than secondary education

Age

ratio

158

dependency

improved water

50.6%
Households
with no Internet

12.3% Households with

Population with

unmet housing

need

20.8% Households with radio

Economic Constraints

Households

with no vehicle



Poverty rate

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Gender Inequality

0 1 SCORE: 0.465

RANK: 9/15 MUNICIPALITIES ASSESSED

SCORE: 0.226 RANK: 13/15 MUNICIPALITIES ASSESSED

0.75

Female to male labor participants

0.94Female to male secondary education attainment

Population Pressures

0

0.5% 8.5

Average annual population change

Net migration rate



COPING CAPACITY (CC)

RANK: 6 / 15 MUNICIPALITIES ASSESSED

SCORE: 0.497

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



Economic Capacity

43.2%

\$6,215

Labor force Annual household participation rate income per capita **SCORE: 0.430 RANK: 8/15 MUNICIPALITIES ASSESSED**

Financial institutions per 10k persons



Governance

103.2 35.3%

Serious crimes Voter participation reported per 10k persons

SCORE: 0.661

RANK: 7/15 MUNICIPALITIES ASSESSED

Households with unment need for refuse collection

1.1%



Environmental Capacity

10.9%

SCORE: 0.226 RANK: 9/15 MUNICIPALITIES ASSESSED

Protected areas (sq km)



Infrastructure Capacity

RANK: 8/15 MUNICIPALITIES ASSESSED SCORE: 0.491



Health Care Capacity SCORE: 0.496 RANK: 7/15 MUNICIPALITIES ASSESSED

0.4 Health care facilities (per 10k persons)

6.3 Average distance to hospital (km)

Population with private health

20.4%



Transportation Capacity SCORE: 0.498 RANK: 10/15 MUNICIPALITIES ASSESSED

3.0

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



Communications Capacity SCORE: 0.463 RANK: 9/15 MUNICIPALITIES ASSESSED

87.4%

7.9

Population using mobile phones

Mobile and wireless infrastructure (per 10k persons)



Emergency Services Capacity SCORE: 0.508 RANK: 9/15 MUNICIPALITIES ASSESSED

1.8

Average distance to fire station (km)

Average distance to police station (km)

Emergency shelters (per 10k persons)

1.3



RESILIENCE (R)

RANK: 5 / 15 MUNICIPALITIES ASSESSED

SCORE: 0.566

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

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



Stress









Communications Capacity



HAZARD-SPECIFIC RISK (HSR)

Earthquake	RANK: 2 / 15 MUNICIPALITIES ASSESSED SCORE: 0.434
Coastal Flood	RANK: 4 / 15 MUNICIPALITIES ASSESSED SCORE: 0.256
Flood	RANK: 1 / 15 MUNICIPALITIES ASSESSED SCORE: 0.424
Landslide	RANK: 1 / 15 MUNICIPALITIES ASSESSED SCORE: 0.396
Wildfire	RANK: 3 / 15 MUNICIPALITIES ASSESSED SCORE: 0.355
Tropical Cyclone Winds	RANK: 2 / 15 MUNICIPALITIES ASSESSED SCORE: 0.434



MULTI-HAZARD RISK (MHR)



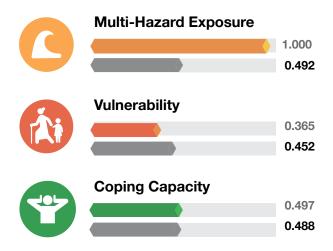
1 / 15

RANK WITHIN MUNICIPALITIES Score: 0.623

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



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



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TUNAPUNA-PIARCO RECOMMENDATIONS

1

Environmental Stress

Tunapuna-Piarco ranks 8th highest for overall Environmental Stress, with households reporting being affected by multiple environmental issues. Issues related to Deforestation, Sewerage, Solid Waste, and Water Contamination were among the top complaints relative to other municipalities. In addition, nearly 20% of households reported having drainage issues, and nearly 15% are affected by flooding. The municipality has the highest overall ranking for Multi-Hazard Exposure, and due to its geography, flooding and landslides are common. These hazards in particular compound environmental hazards, threatening lives and damaging homes and infrastructure.

Improve the levels of municipal service that collect and responsibly dispose of solid waste while concurrently increasing routine maintenance of drainage systems and culverts to clear debris and drainage channels and improve outflow of storm water.

Launch community campaigns to educate the public about the harm resulting from the indiscriminate dumping of rubbish in waterways and locations other than designated disposal sites. 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. Strengthen collaboration between social service entities, private sector organizations and NGOs to manage environmental impacts of squatter settlements and deliver needed services.

2

Gender Inequality

Tunapuna-Piarco ranks 9th for overall Gender Inequality, driven primarily by inequities related to Female to Male Secondary Enrollment.

Design and implement intervention strategies to promote and sustain engagement of both male and female students in secondary-level education and reduce dropout rates.

TUNAPUNA-PIARCO RECOMMENDATIONS



Economic Capacity

Tunapuna-Piarco ranks 8th for overall Economic Capacity with the 7th lowest Labor Force Participation rate in the country. The size and diversity of the local economy presents numerous employment options for local residents as well as those in neighboring municipalities.

Increase access to financing and support structures (e.g. microfinance toward labor market needs to services and loans) for farmers, small business owners and household enterprises to expand production and marketability of goods and produce.

Establish programs that gear education promote job creation and employment opportunities for youth and those with lower educational attainment.



Communications Capacity

Tunapuna-Piarco ranks 9th for overall Communications Capacity, 7th for Mobile Phone Use, and 9th for Mobile and Wireless Infrastructure density. In addition, only half of households have access to the Internet.

Increase the quality and delivery of service in the municipality to improve access in remote areas (i.e., communities in mountainous areas).

Improved access to mobile and wireless services will not only support economic endeavors but offer additional methods by which the public can access important hazard alert and warning information, especially by those in rural areas.

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