



CABO VERDE

RIBEIRA GRANDE

NDPBA MUNICIPAL PROFILE

CABO VERDE

RIBEIRA GRANDE

ISLAND: SANTO ANTÃO

Area: 167 km²

The municipality of Ribeira Grande is located in the northern part of Santo Antão Island, the westernmost and second-largest island of Cabo Verde, and the largest of the Barlavento Islands group. Ribeira Grande borders the municipalities of Porto Novo to the south and Paul to the southeast and occupies approximately 21% of the island's land area. Ribeira Grande is characterized by deep valleys and well-defined hydrographic basins and takes its name from the Ribeira Grande Valley. While the diverse landscape, including the Morroços Natural Park, presents a rich tourism potential, the main economic activities are limited forms of agriculture, livestock, and fishing. The steep topography presents challenges to development, especially with regard to infrastructure, housing, irrigation, and transportation. Private sector investment remains limited with a low concentration of capital and the low valuation of human resources.



RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Low

Score: 0.447 • Rank: 14/22



RESILIENCE (R) - Moderate

Score: 0.558 • Rank: 9/22



MULTI-HAZARD EXPOSURE (MHE) - High

Score: 0.458 • Rank: 7/22



VULNERABILITY (V) - Low

Score: 0.406 • Rank: 16/22



COPING CAPACITY (CC) - High

Score: 0.521 • Rank: 8/22



Population (2020 projected)

15,444



Infant mortality rate
(per 1,000 live births)

19.8



Poverty rate

25.9%



Population with access
to improved water

97.1%



Average years of schooling

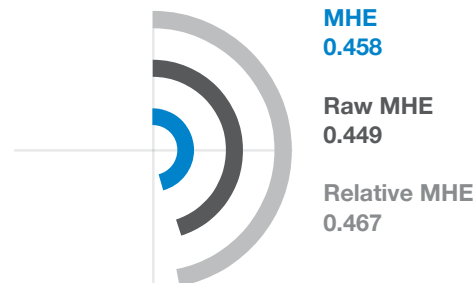
7.2



MULTI-HAZARD EXPOSURE (MHE)

RANK: 7 / 22 MUNICIPALITIES

SCORE: 0.458



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Drought

84.5%

13,294

\$127.4 Million

Critical Infrastructure Exposed:

94.0%



Flood

6.6%

1,033

–

Critical Infrastructure Exposed:

10.0%



Earthquake Induced Landslide

9.9%

1,557

\$28.1 Million

Critical Infrastructure Exposed:

22.0%



Precipitation Induced Landslide

37.1%

5,844

\$44.9 Million

Critical Infrastructure Exposed:

37.0%



Volcano

0.0%

0

–

Critical Infrastructure Exposed:

0.0%



Forest Fire

23.5%

3,702

\$147.6 Million

Critical Infrastructure Exposed:

20.0%



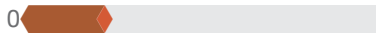
VULNERABILITY (V)

RANK: 16 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.406

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




Environmental Stress

0  1 **SCORE: 0.221** **RANK: 17/22 MUNICIPALITIES ASSESSED**

0.46 **26.2%** **0.1%**
 Livestock Density per Hectare
 Households Using Firewood as Cooking Fuel
 Loss in Tree Cover (2001 to 2020)



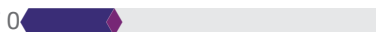
Vulnerable Health Status

0  1 **SCORE: 0.438** **RANK: 12/22 MUNICIPALITIES ASSESSED**

19.8 **11.6%** **25.0** **0.0**
 Infant Mortality Rate (per 1,000 live births)
 Disabled Population
 TB Prevalence per 100k Persons
 HIV Incidence per 100K Persons




Clean Water Vulnerability

0  1 **SCORE: 0.249** **RANK: 15/22 MUNICIPALITIES ASSESSED**

14.5 **89.3%** **97.1%**
 Average Time to Collect Water for Household Use
 Households with Access to Wastewater Services
 Population with Access to Improved Water




Information Access Vulnerability

0  1 **SCORE: 0.622** **RANK: 7/22 MUNICIPALITIES ASSESSED**



83.0% **7.2** **78.2%** **58.0%** **24.1%**
 Adult Literacy Rate
 Average Years of Schooling
 Households with Television
 Households with radio
 Households with Internet access



Economic Constraints

0  1 **SCORE: 0.537** **RANK: 11/22 MUNICIPALITIES ASSESSED**

0.56 **0.39** **9.3%** **25.9%** **8.7%**
 Age dependency ratio
 Gini index
 Unemployment Rate
 Poverty rate
 Households owning a vehicle

**Gender Inequality**0  1 **SCORE: 0.367** **RANK: 14/22 MUNICIPALITIES ASSESSED****41.2%**
Female Seats
Municipal City
Council**0.63**
Female to male labor
participants**1.07**
Parity in Secondary
Education Enrollment**Population Pressures**0  1 **SCORE: 0.405** **RANK: 15/22 MUNICIPALITIES ASSESSED****-1.82%**
Average annual
population
change**-18.48**
Net Migration
Rate (per 1,000
persons)**22.07**
Youth Bulge




COPING CAPACITY (CC)

RANK: 8 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.521

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



Economic Capacity

0  1 **SCORE: 0.414** **RANK: 11/22 MUNICIPALITIES ASSESSED**

41.09%

Economic Activity Rate

5.83


Financial Service
Locations per 10k
Persons

148,448

Avg Annual Expenditures per
Capita CVE



Governance

0  1 **SCORE: 0.634** **RANK: 10/22 MUNICIPALITIES ASSESSED**

65%

Population Properly
Disposing Waste

228.89

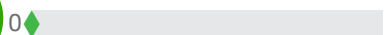
Crimes
Reported per
10k persons

66.0%

Voter Participation
Rate in Local
Elections



Environmental Capacity


0  1 **SCORE: 0** **RANK: 13/22 MUNICIPALITIES ASSESSED**

0.00%

Protected Area



Infrastructure Capacity

0  1 **SCORE: 0.690** **RANK: 4/22 MUNICIPALITIES ASSESSED**



Health Care Capacity

SCORE: 0.825 **RANK: 1/22 MUNICIPALITIES ASSESSED**

8.40

Physicians per 10k
Persons

21.59

Nurses per 10k
Persons

99.5%

Pct Under
1yr Fully
Vaccinated

0.65

Hospitals per
10k persons



Transportation Capacity

SCORE: 0.610 **RANK: 8/22 MUNICIPALITIES ASSESSED**

3.02

Road density
(km per sq. km)

17.31

Average Distance to
Port Facility (km)



Communications Capacity

SCORE: 0.624 **RANK: 5/22 MUNICIPALITIES ASSESSED**

44.4%

Households with Fixed Phones

66.2%

Population with Mobile Phone



Energy Capacity

SCORE: 0.649 **RANK: 10/22 MUNICIPALITIES ASSESSED**

93.3%

Households with Access to Electricity

70.8%

Households with Access to Gas



Emergency Services Capacity

SCORE: 0.743 **RANK: 5/22 MUNICIPALITIES ASSESSED**

6.71

Average Distance to
Hospital (km)

6.05

Average Distance to
Police Station (km)

19.43

Firefighters per
10,000 Persons



RESILIENCE (R)

RANK: 9 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.558

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

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



**Information
Access
Vulnerability**



**Economic
Constraints**



Economic Capacity



**Transportation
Capacity**



HAZARD-SPECIFIC RISK (HSR)



Drought

RANK: 12 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.296



Flood

RANK: 3 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.277



**Earthquake Induced
Landslide**

RANK: 2/22 MUNICIPALITIES ASSESSED
SCORE: 0.294



**Precipitation Induced
Landslide**

RANK: 5/22 MUNICIPALITIES ASSESSED
SCORE: 0.276



Forest Fire

RANK: 10 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.205



Volcano

RANK: 6/ 22 MUNICIPALITIES ASSESSED
SCORE: 0



MULTI-HAZARD RISK (MHR)

14 / 22RANK WITHIN MUNICIPALITIES
Score: 0.447

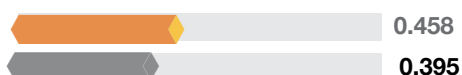
Ribeira Grande's score and ranking are due to High Multi-hazard Exposure combined with Low Vulnerability and High Coping Capacity scores.

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

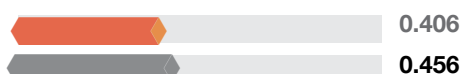
  RIBEIRA GRANDE SCORE
 COUNTRY SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



RIBEIRA GRANDE RECOMMENDATIONS

1

Information Access Vulnerability

Ranking 7th highest for overall Information Access Vulnerability, Ribeira Grande has the lowest percentage of households with access to the internet (24%). 83% of the adult population is literate, and 78.2% of households have a television.

Implement community outreach and education programs focused on hazard awareness, disaster preparedness, and health and safety practices to build community resilience. Include information and resources for audiences requiring special considerations such as the very young, elderly, and disabled populations. Boost public-private collaboration and coordination to ensure that hazard warning information is accessible and disseminated as broadly as possible through multiple communications channels.

Work with communities to better understand the underlying factors that represent barriers to education and literacy. Focus efforts on providing programs to increase school attendance and completion of secondary education. Address disparities in information access resulting from related economic constraints.

2

Economic Constraints

Ranking 11th highest for Economic Constraints, Ribeira Grande's score is driven by having the 5th highest age dependency ratio. More than half of the population (0.56) is under the age of 15 and over 64 years of age and therefore dependent upon the working age population (ages 15 to 64).

Strengthen collaboration between social service entities, private sector organizations and NGOs to coordinate poverty reduction efforts and delivery of services. Strengthen social assistance programs that provide benefits for elderly, low income, and single-parent households.

Assess disaster response and recovery plans to ensure that economically vulnerable and dependent populations are identified, as poor populations are more likely to be severely impacted by disasters and have slower recovery times. In addition, elderly populations and families with young children may need additional support to accommodate special needs during evacuation and in shelters.

RIBEIRA GRANDE RECOMMENDATIONS

3

Economic Capacity

Ribeira Grande's overall Economic Capacity ranking is constrained by having the 3rd lowest economic activity rate in the country, with just over 41% of persons over the age of 15 being active in the workforce. Given Ribeira Grande's economic constraints, low labor participation may reduce economic protection and inhibit the municipality's ability to quickly mobilize financial assets during a disaster.

While Ribeira Grande's economy is driven primarily by agriculture and fishing, the diverse landscape presents potential to develop tourism. Private sector investments in the municipality are relatively low. Invest in human capital by increasing access to vocational, technical, and entrepreneurial training to diversify the local economy and directly support labor market needs in the municipality. Expanding local economic opportunities will bolster labor participation and employment, supporting increased household incomes.

Continue to support environmental protections while investing in infrastructure enhancements to encourage and expand tourism in the municipality. Ensure that new development is sustainable and does not contribute to environmental stress or increase hazard exposure.

4

Transportation Capacity

While Ribeira Grande has the 3rd highest road density in the country, it has the 9th greatest average distance to a port or airport facility in the country (over 17 km).

Ribeira Grande ranks 7th highest in Cabo Verde for overall Multi-hazard Exposure, with significant exposure to drought, forest fires, landslides, and flooding. Limited transportation networks hamper timely evacuations and delay response and recovery activities. Damaged roads, seaports and airports can further postpone delivery and transport of much needed relief supplies and delay recovery processes.

Secure investments for continued expansion and maintenance of transportation networks. Explore public-private partnerships to improve and maintain the quality of existing transportation infrastructure and increase connectivity between islands and municipalities. By bolstering transportation capacity, Ribeira Grande will have the added benefit of supporting sustainable economic growth through greater accessibility of goods and services. Protect investments and service provision by implementing mitigation strategies (e.g., storm water drainage, erosion prevention) to reduce hazard impacts. Evacuation routes and emergency response plans should be adapted as construction and maintenance are planned and implemented.

**Better solutions.
Fewer disasters.**

Safer world.

**1305 N Holocono Street
Suite 2, Kihei, HI 9675 3**

**P: (808) 891-0525
F: (808) 891-0526**



@PDC_Global



/PDCGlobal



www.pdc.prg



ndpba.cpv@pdc.org