

CABO VERDE

PAUL

NDPBA MUNICIPAL PROFILE

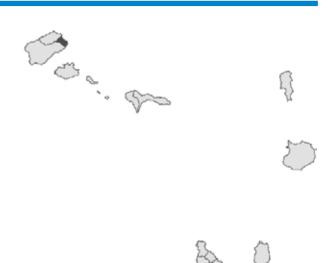


CABO VERDE PAUL

ISLAND: SANTO ANTAO

Area: 54 km²

Paul is located on the northeast coast of the island of Santo Antão. It is one of three municipalities in Santo Antão which is the westernmost and second-largest island of Cabo Verde, and the largest of the Barlavento Islands group. The other two municipalities are Porto Novo and Ribeira Grande. Paul is the greenest municipality in the region with a beautiful landscape and rural culture yet faces development challenges related to infrastructure services (e.g., water and wastewater, solid waste disposal) and



urban planning. Farming and livestock are the two main economic drivers. Subsistence farming includes maize, beans, sweet potatoes in high grounds, and sugar cane, bananas, and vegetables in the valleys. Periodic droughts impact Paul's agriculture, resulting in low agricultural yields. Brandy and honey are the two main export products of the municipality.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very Low

Score: 0.377 • Rank: 18/22



RESILIENCE (R) - Moderate

Score: 0.516 • Rank: 10/22



MULTI-HAZARD EXPOSURE (MHE) - Very Low

Score: 0.162 • Rank: 20/22



VULNERABILITY (V) - High

Score: 0.498 • Rank: 6/22



COPING CAPACITY (CC) - High

Score: 0.530 • Rank: 7/22



Population (2020 projected)

5.382



Infant mortality rate (per 1,000 live births)

0.0



Poverty rate

44.5%



Population with access to improved water

94.7%



Average years of schooling

6.6



MULTI-HAZARD EXPOSURE (MHE)

RANK: 20 / 22 MUNICIPALITIES

SCORE: 0.162



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Drought

5.8%

326

\$25.4 Million

Critical Infrastructure Exposed:

19.0%



Flood

3.2%

4 179

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Critical Infrastructure Exposed:

3.0%



Earthquake Induced Landslide

11.5%

641

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Critical Infrastructure Exposed:

30.0%



Precipitation Induced Landslide

36.7%

2,053

\$25.4 Million

Critical Infrastructure Exposed:

50.0%



Volcano

0.0%

2 0

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Critical Infrastructure Exposed:

0.0%



Forest Fire

32.3%

1.807

\$75.1 Million

Critical Infrastructure Exposed:

3.0%



VULNERABILITY (V)

RANK: 6 / 22 MUNICIPALITIES ASSESSED

SCORE: 0.498

Vulnerability in Paul 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

1 SCORE: 0.244 RANK: 16/22 MUNICIPALITIES ASSESSED

0.49Livestock
Density per
Hectare

27.1%
Households
Using Firewood
as Cooking Fuel

0.3%Loss in Tree
Cover (2001 to 2020)



Vulnerable Health Status

1 SCORE: 0.541 RANK: 7/22 MUNICIPALITIES ASSESSED

0.0Infant Mortality
Rate (per 1,000

live births)

13.3% Disabled Population 53.0 TB Prevalence per 100k Persons 70.8
HIV Incidence per 100K
Persons



Clean Water Vulnerability

1 SCORE: 0.442 RANK: 10/22 MUNICIPALITIES ASSESSED

18.0Average Time to Collect Water for Household Use

77.2%
Households
with Access
to Wastewater
Services

94.7% Population with Access to Improved Water



Information Access Vulnerability

1 SCORE: 0.627 RANK: 6/22 MUNICIPALITIES ASSESSED

77.1% Adult Literacy Rate

6.6Average Years of Schooling

75.6%Households with Television

59.1%Households with radio

63.4%
Households
with Internet access

T.S

Economic Constraints

1 SCORE: 0.687 RANK: 4/22 MUNICIPALITIES ASSESSED

Age dependency ratio

0.56

0.43 Gini index

6.9%Unemployment Rate

44.5%Poverty rate

5.3%Households owning a vehicle

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Gender Inequality

SCORE: 0.578 RANK: 6/22 MUNICIPALITIES ASSESSED

RANK: 20/22 MUNICIPALITIES ASSESSED

38.5%Female Seats
Municipal City
Council

0.65Female to male labor participants

1.22Parity in Secondary
Education Enrollment

Population Pressures

-2.31% -1

-19.29 19.46Net Migration Youth Bulge

Average annual population change

Net Migration Rate (per 1,000 persons) 6

SCORE: 0.366

49



COPING CAPACITY (CC)

RANK: 7 / 22 MUNICIPALITIES ASSESSED

SCORE: 0.530

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



Economic Capacity

Economic Activity Rate

Population Properly

Disposing Waste

49.42% 7.43

Financial Service Locations per 10k

Persons

189.48

SCORE: 0.475 RANK: 9/22 MUNICIPALITIES ASSESSED

111,176
Avg Annual Expenditures per Capita CVE

Governance

67%

SCORE: 0.729 RANK: 3/22 MUNICIPALITIES ASSESSED

72.0%

Crimes Voter Participation
Reported per Rate in Local
10k persons Elections



Environmental Capacity

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

0.00%

Protected Area



Infrastructure Capacity

1 SCORE: 0.562 RANK: 9/22 MUNICIPALITIES ASSESSED



Health Care Capacity SCORE: 0.450 RANK: 11/22 MUNICIPALITIES ASSESSED

3.37

13.47 97

97.3%

Physicians per 10k

Nurses per 10k Persons Pct Under 1yr Fully Vaccinated Hospitals per 10k persons

0



Transportation Capacity SCORE: 0.634 RANK: 7/22 MUNICIPALITIES ASSESSED

2.82

Road density Average Distance to (km per sq. km) Port Facility (km)



Communications Capacity SCORE: 0.381 RANK: 12/22 MUNICIPALITIES ASSESSED

20.8% 62.4%

13.84

Households with Fixed Phones Population with Mobile Phone



Energy Capacity SCORE: 0.653 RANK: 9/22 MUNICIPALITIES ASSESSED

93.7% 70.0%

Households with Access to Electricity Households with Access to Gas



Emergency Services Capacity SCORE: 0.694 RANK: 6/22 MUNICIPALITIES ASSESSED

7.97 4.06

Average Distance to Hospital (km) Average Distance to Police Station (km)

Firefighters per

14.86



RESILIENCE (R)

RANK: 10 / 22 MUNICIPALITIES ASSESSED

SCORE: 0.516

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

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







Information Access Vulnerability



Communications Capacity



Health Care Capacity



HAZARD-SPECIFIC RISK (HSR)

-1/2

Drought

RANK: 22 / 22 MUNICIPALITIES ASSESSED

SCORE: 0.160



Flood

RANK: 6 / 22 MUNICIPALITIES ASSESSED

SCORE: 0.169



Earthquake Induced Landslide

RANK: 7/22 MUNICIPALITIES ASSESSED SCORE: 0,205

Mi

Precipitation Induced

Landslide RANK: 3/22 MUNICIPALITIES ASSESSED

SCORE: 0.308



Forest Fire

RANK: 11 / 22 MUNICIPALITIES ASSESSED

SCORE: 0.186



Volcano

RANK: 6/ 22 MUNICIPALITIES ASSESSED

SCORE: 0



MULTI-HAZARD RISK (MHR)



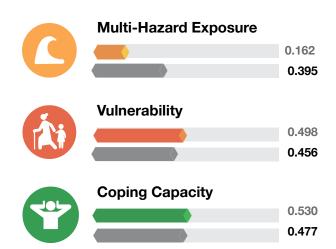
18 / 22

RANK WITHIN MUNICIPALITIES Score: 0.377

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

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





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PAUL RECOMMENDATIONS

Economic Constraints

Paul ranks 4th highest for overall Economic Constraints, driven by the 3rd highest income inequality (Gini coefficient of 0.43), only 5.3% of households owning a vehicle, and nearly 45% of the population living in poverty. Families without a vehicle will be challenged to evacuate to safety when disasters strike. Identify vulnerable communities' transportation challenges and include strategies to support evacuation in municipal disaster plans. Assess disaster response and recovery plans to ensure that economically vulnerable populations are identified, as poor populations are often more likely to be severely impacted by disasters and have slower recovery times.

Economic constraints in Paul are closely linked to Information Access Vulnerability and vice versa. Removing economic barriers to education, and ensuring equitable access to schools, educational resources, and information technology will reduce vulnerability in the municipality.

Develop short- and long-term strategies to address and alleviate poverty. Shortterm strategies may include public assistance programs that specifically address unsatisfied basic needs (i.e., food, water, housing, education). Over the long term, support government programs to assist in new business and employment opportunities. Linked economic development to national and municipal sustainable development goals to diversify livelihoods and promote equitable distribution of property and economic assets in Paul. Create public policies guaranteeing equal opportunity and fair wages for all. Focusing on sustainable economic opportunities will help to decrease long-term reliance on social assistance.



Information Access Vulnerability

Ranking 6th highest for overall Information Access Vulnerability, Paul ranks highest for adult illiteracy (77.1 %), and 3rd lowest for average years of schooling (6.6 years). Paul has some of the lowest percentages of households with access to television (75.6%) and internet services (63.4%).

Focus efforts on providing programs to increase school attendance and completion of secondary education. Work with communities to better understand the underlying factors that represent barriers to education and literacy. For example, economic constraints may contribute to disparities in information access.

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.

PAUL RECOMMENDATIONS



Communications Capacity

Paul's overall Communications
Capacity ranking is constrained by
having the 7th lowest percentage of
the population with mobile phones
(62%) and approximately 21% of
households with fixed phones.
Limited communications capacity
exacerbates information access
vulnerability and hinders the ability
of government agencies to share
critical information during disasters.

Boost Communications Capacity and overall resilience through the expansion of infrastructure to ensure coverage, accessibility, and reliability of communications during disasters. Encourage telecommunications infrastructure development at a sustainable pace and implement risk reduction measures in all infrastructure enhancements to protect against hazard impacts. Create communications plans to share critical information with the public during disasters, leveraging multimodal communication strategies (radio, internet, television, fixed- and mobile telephone).



Health Care Capacity

Paul's overall Health Care Capacity ranking is constrained by its lack of hospital services and limited numbers of health care personnel (3.37 physicians and 13.5 nurses) per 10,000 persons. Paul has one public healthcare center, albeit with limited capacity. This hospital unit does not have a laboratory or radiology service, so patients are referred to the Regional Hospital of Ribeira Grande.

With limited access to healthcare, and limited hospital beds and medical staff, the municipality is not equipped to handle disease outbreaks or mass casualty events. Paul is susceptible to landslide, forest fire, flood, and drought. Ensuring that the health care system can meet the needs of vulnerable and exposed populations is vital to protect lives.

In light of existing economic constraints, expanded partnerships with NGOs, private sector, and regional and international donor agencies may be needed to expand health care infrastructure, hospital capabilities, and skilled medical staff in the municipality. Incentivizing employment in the health care sector, especially in vulnerable rural commmunities, will enhance equitable access to health care in Paul. While encouraging long-term expansion of the health care system, support underserved communities by developing a program for visiting medical practitioners to increase access to preventive and acute care in the municipality.

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