



CABO VERDE

SAO MIGUEL

NDPBA MUNICIPAL PROFILE

CABO VERDE SAO MIGUEL



ISLAND: SANTIAGO

Area: 77 km²

The municipality of São Miguel is located on the northeastern part of the island of Santiago and bordered by three municipalities, Tarrafal to the north, Santa Cruz to the south, and Santa Catarina to the west, with which it shares some common infrastructure. To the east is the Atlantic Ocean. Due to its terrain, the economy is based on agriculture using irrigation along streams and rainfed systems that produce maize, beans, sweet potatoes, and manioc. However, irregular rainfall results in yields that are low and inconsistent. Livestock and fishing are also income-generating activities of the municipal population, although fishing remains limited to family practice due to a lack of basic infrastructure to support the industry. Production of brandy, sugar cane honey, cheese, liqueurs, and confectionery as well as small carpentry, metal welding shops, autobody shops, and mechanics subsectors are also observed. Environmental degradation is a major issue particularly in the city of Calheta where sand extraction has depleted the coast and presents harmful effects to sea turtles. A national protection plan has been issued to tackle this problem.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very High
Score: 0.550 • Rank: 3/22



RESILIENCE (R) - Very Low
Score: 0.389 • Rank: 20/22



MULTI-HAZARD EXPOSURE (MHE) - Moderate
Score: 0.428 • Rank: 8/22



VULNERABILITY (V) - Very High
Score: 0.601 • Rank: 2/22



COPING CAPACITY (CC) - Very Low
Score: 0.378 • Rank: 19/22



Population (2020 projected)
13,779



Infant mortality rate
(per 1,000 live births)
11.2



Poverty rate
30.9%



Population with access
to improved water
65.3%



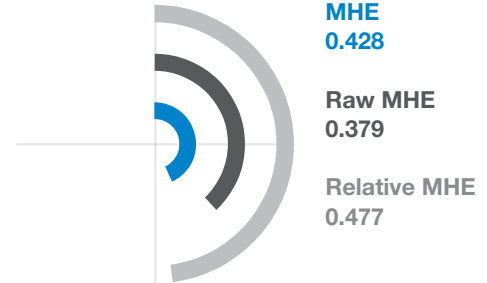
Average years of schooling
7.5



MULTI-HAZARD EXPOSURE (MHE)

RANK: 8 / 22 MUNICIPALITIES

SCORE: 0.428



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Drought

89.5%

12,569

\$172.8 Million

Critical Infrastructure Exposed:

97.0%



Flood

1.9%

268

-

Critical Infrastructure Exposed:

5.0%



Earthquake Induced Landslide

3.4%

479

\$34.5 Million

Critical Infrastructure Exposed:

0.0%



Precipitation Induced Landslide

13.3%

1,865

\$75.8 Million

Critical Infrastructure Exposed:

0.0%



Volcano

0.0%

0

-

Critical Infrastructure Exposed:

0.0%



Forest Fire

50.9%

7,151

\$85.4 Million

Critical Infrastructure Exposed:

65.0%



VULNERABILITY (V)

RANK: 2 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.601

Vulnerability in Sao Miguel is primarily driven by Clean Water Access Vulnerability and Population Pressures. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.




Environmental Stress

0  1 **SCORE: 0.638** **RANK: 1/22 MUNICIPALITIES ASSESSED**

1.26 Livestock Density per Hectare	67.4% Households Using Firewood as Cooking Fuel	3.2% Loss in Tree Cover (2001 to 2020)
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Vulnerable Health Status

0  1 **SCORE: 0.475** **RANK: 10/22 MUNICIPALITIES ASSESSED**

11.2 Infant Mortality Rate (per 1,000 live births)	6.4% Disabled Population	42.0 TB Prevalence per 100k Persons	92.1 HIV Incidence per 100K Persons
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Clean Water Vulnerability

0  1 **SCORE: 0.881** **RANK: 1/22 MUNICIPALITIES ASSESSED**

26.3 Average Time to Collect Water for Household Use	61.2% Households with Access to Wastewater Services	65.3% Population with Access to Improved Water
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Information Access Vulnerability

0  1 **SCORE: 0.663** **RANK: 5/22 MUNICIPALITIES ASSESSED**

81.1% Adult Literacy Rate	7.5 Average Years of Schooling	67.8% Households with Television	37.8% Households with radio	62.5% Households with Internet access
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Economic Constraints

0  1 **SCORE: 0.605** **RANK: 7/22 MUNICIPALITIES ASSESSED**

0.56 Age dependency ratio	0.36 Gini index	14.8% Unemployment Rate	30.9% Poverty rate	5.9% Households owning a vehicle
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Gender Inequality

0  1 **SCORE: 0.265** **RANK: 19/22 MUNICIPALITIES ASSESSED**


47.1%
Female Seats
Municipal City
Council

0.77
Female to male labor
participants

1.04
Parity in Secondary
Education Enrollment



Population Pressures

0  1 **SCORE: 0.681** **RANK: 1/22 MUNICIPALITIES ASSESSED**

-1.19%
Average annual
population
change

-52.47
Net Migration
Rate (per 1,000
persons)

29.26
Youth Bulge



COPING CAPACITY (CC)

RANK: 19 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.378

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



Economic Capacity

0 1 **SCORE: 0.200** **RANK: 17/22 MUNICIPALITIES ASSESSED**

45.95% **0.73** **131,365**
Economic Activity Rate Financial Service Locations per 10k Persons Avg Annual Expenditures per Capita CVE



Governance

0 1 **SCORE: 0.517** **RANK: 16/22 MUNICIPALITIES ASSESSED**

43% **177.75** **60.0%**
Population Properly Disposing Waste Crimes Reported per 10k persons Voter Participation Rate in Local Elections



Environmental Capacity

0 1 **SCORE: 0.597** **RANK: 4/22 MUNICIPALITIES ASSESSED**

6.39%
Protected Area



Infrastructure Capacity

0 1 **SCORE: 0.345** **RANK: 21/22 MUNICIPALITIES ASSESSED**



Health Care Capacity

SCORE: 0.509 **RANK: 10/22 MUNICIPALITIES ASSESSED**

2.76 **5.52** **100.0%** **0.73**
Physicians per 10k Persons Nurses per 10k Persons Pct Under 1yr Fully Vaccinated Hospitals per 10k persons



Transportation Capacity

SCORE: 0.378 **RANK: 18/22 MUNICIPALITIES ASSESSED**

2.58 **33.62**
Road density (km per sq. km) Average Distance to Port Facility (km)



Communications Capacity

SCORE: 0.146 **RANK: 20/22 MUNICIPALITIES ASSESSED**

6.2% **59.0%**
Households with Fixed Phones Population with Mobile Phone



Energy Capacity

SCORE: 0.082 **RANK: 22/22 MUNICIPALITIES ASSESSED**

82.6% **31.6%**
Households with Access to Electricity Households with Access to Gas



Emergency Services Capacity

SCORE: 0.608 **RANK: 16/22 MUNICIPALITIES ASSESSED**

4.37 **10.62** **3.63**
Average Distance to Hospital (km) Average Distance to Police Station (km) Firefighters per 10,000 Persons



RESILIENCE (R)

RANK: 20 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.389

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

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



Clean Water Access Vulnerability



Population Pressures



Energy Capacity



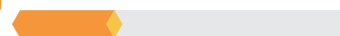
Communications Capacity



HAZARD-SPECIFIC RISK (HSR)



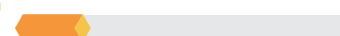
Drought



RANK: 16 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.274



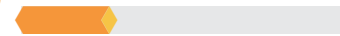
Flood



RANK: 5 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.173



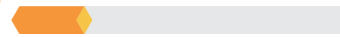
Earthquake Induced Landslide



RANK: 3/22 MUNICIPALITIES ASSESSED
SCORE: 0.250



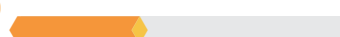
Precipitation Induced Landslide



RANK: 8/22 MUNICIPALITIES ASSESSED
SCORE: 0.189



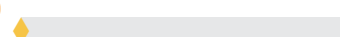
Forest Fire



RANK: 2 / 22 MUNICIPALITIES ASSESSED
SCORE: 0.355



Volcano



RANK: 6/ 22 MUNICIPALITIES ASSESSED
SCORE: 0



MULTI-HAZARD RISK (MHR)

3 / 22

RANK WITHIN MUNICIPALITIES
Score: 0.550



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

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

SAO MIGUEL SCORE
COUNTRY SCORE



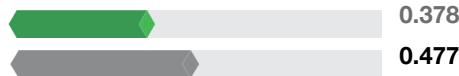
Multi-Hazard Exposure



Vulnerability



Coping Capacity



SAO MIGUEL RECOMMENDATIONS

1

Clean Water Access Vulnerability

Sao Miguel has the highest relative Clean Water Access Vulnerability score in Cabo Verde, driven by significant constraints in household access to an improved water source. The municipality has the lowest percentage of households with access (61.2%), and households take on average, 26.3 minutes to travel to a main water source, collect water and return home. In addition, just 65.3% of the population has access to improved wastewater systems.

Within the municipality and across the nation, chronic drought conditions threaten water security. With support from NGOs, regional, and international partners, prioritize investments to improve and extend safe and reliable water delivery and wastewater treatment systems within the municipality. Even in areas with improved sanitation infrastructure, severe drought conditions significantly increase the concentration of downstream contaminants. Increasing access to improved water and sanitation has positive cascading effects on public and environmental health, quality of life, economic opportunities, and gender equality by safeguarding water supplies and reducing time needed to gather water.

Continue efforts to reduce the high cost of water services, especially in poor and vulnerable communities.

2

Population Pressures

Sao Miguel has the highest relative ranking for overall Population Pressures, driven by a net migration rate of -52.47 per 1,000 persons, and a youth bulge of 29.26%. The municipality has seen an average annual decline in population of -1.2% between 2010 and 2020.

High rates of emigration from the municipality can leave gaps in social support systems and contribute to a loss of intellectual capital and skilled labor, affecting the economy and its growth potential. Combined with the youth bulge, decreases in economic opportunities and employment have the potential to become a source of social and political instability in the municipality.

Strengthen economic planning efforts to identify vulnerabilities related to the changing population. Implement programs and support systems to identify gainful employment opportunities for youth residing in the municipality, including vocational, technical, and entrepreneurial training programs. Ensuring productive employment in a youth bulge, when economic dependency is low, tends to increase per capita income, yielding a demographic dividend. Combined with services to alleviate poverty, enhanced policing in areas susceptible to criminal activity will reduce population pressures in Sao Miguel.

SAO MIGUEL RECOMMENDATIONS

3

Energy Capacity

Sao Miguel has the lowest overall Energy Capacity relative to other municipalities in the country with the lowest percentage of households having access to gas for cooking fuel (31.6%) and 82.6% of households having access to electricity.

Focus development programs on increasing energy capacity by establishing sustainable power generation in underserved communities and extending the existing transmission and distribution network. Continue to expand private-public partnerships to ensure energy expansion projects provide affordable and equitable access across the municipality.

Power and gas lines should be carefully engineered to be resilient against impacts from natural hazards, with backup mechanisms to increase safety and redundancy in the energy network.

4

Communications Capacity

Sao Miguel has the 3rd lowest ranking for overall Communications Capacity in Cabo Verde, driven by the 2nd lowest percentage of mobile phone ownership (59%) and the 4th lowest percentage of households with a fixed phone (6.2%). 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).

**Better solutions.
Fewer disasters.**

Safer world.

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