

PARAGUAY GUAIRÁ

NDPBA DEPARTMENT PROFILE



PARAGUAY GUAIRÁ

CAPITAL: VILLARRICA

Area: 4,797 (km²)

The Guairá department Is located in the Eastern region of Paraguay. This department is divided into 18 districts: Villarrica (The Capital),), Borja, Cptán. Mauricio José Troche, Coronel Martínez, Félix Pérez Cardozo, General Eugenio A. Garay, Independencia, Itapé, Iturbe, José Fassardi, Mbocayaty, Natalicio Talavera, Ñumí, San Salvador, Yataity, Dr. Bottrell, Paso Yobai, Tebicuary. The department borders the departments of Caaguazú, Caazapá and Paraguarí. The main economic sources are are sugar cane cotton, soybean, maize, vegetables, fruits and also wine.

RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Low

Score: 0.481 • Rank: 11/18



RESILIENCE (R) - High

Score: 0.548 • Rank: 6/18



Population (2015)

223,104



MULTI-HAZARD EXPOSURE (MHE) - Moderate

Score: 0.539 • Rank: 10/18



Infant Mortality Rate

11.5



VULNERABILITY (V) - Low

Score: 0.434 • Rank: 13/18



Illiterate population

9.1%



Access to improved water

77.8%





Average life expectancy

74.4 years



Score: 0.530 • Rank: 7/18

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 10 / 18 DEPARTMENT

SCORE: 0.539



MHE 0.539

Raw MHE 0.390

Relative MHE 0.687

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:

Inland Flood



13%

29,573

\$583.2 Million



Wildfire

90%

206,271

\$2.7 Billion



Water Deficit



111,921

\$1.6 Billion



Drought

\$2.9 Billion



Extreme Cold

\$411.3 Million



Storm

\$28.8 Million



VULNERABILITY (V)

RANK: 13 / 18 DEPARTMENTS ASSESSED

RANK: 13/18 DEPARTMENTS ACCESSED

SCORE: 0.434

Vulnerability in Guairá is primarily driven by Information Access Vulnerability and Gender Inequality. The bar chart indicates the socioeconomic themes contributing to the department's overall Vulnerability score.



Environmental Stress

1 SCORE: 0.331

1.30% 12.04% Cultivated Area Deforestation Change



Vulnerable Health Status

SCORE: 0.395 RANK: 13/18 DEPARTMENTS ASSESSED 1

74.35 Life Expectancy (years)

11.5 Infant Mortality Rate (per 1,000

live births)

Maternal Mortality Ratio 49.13 Adult Malnutrition

28.8% Population with

Disability

44.8% Population Reporting Illness or Injury



Clean Water Vulnerability

SCORE: 0.435 RANK: 6/18 DEPARTMENTS ASSESSED

77.82% 69.93% Households with Households Improved Water with Improved Source Sanitation



Information Access Vulnerability

SCORE: 0.608 RANK: 9/18 DEPARTMENTS ASSESSED 1

9.1% 9.96% 88.64% 7.3 78.6% Households with Households with Illiteracy Rate Average Years Households with (Age 10+) of Schooling Internet Television Radio



Economic Constraints

1 SCORE: 0.423 **RANK: 12/18 DEPARTMENTS ASSESSED**

56.85 33.88% 0.42 Poverty Rate Economic Income Dependency Inequality (GINI)



Gender Inequality

SCORE: 0.450 RANK: 11/18 DEPARTMENTS ASSESSED

80.0 0.34 0.31 Female to Male Female to Male Female to Male *Higher values indicate greater Economic Activity* Average Monthly Secondary gender disparity. Education' Income'

Population Pressures

1 SCORE: 0.398 **RANK: 15/18 DEPARTMENTS ASSESSED**

1.05% Average Annual Population Change



COPING CAPACITY (CC)

RANK: 7 / 18 DEPARTMENTS ASSESSED

SCORE: 0.530

Guairá exhibits weaker Coping Capacity in the areas of Health Care Capacity and Communications Capacity. The bar chart indicates the socioeconomic themes contributing to the department's overall Coping Capacity score.



Economic Capacity

1 SCORE: 0.450

RANK: 13/18 DEPARTMENTS ASSESSED

95.72

Employment Rate

1,504 Average Monthly Income

60.39%

Participation



Governance

24.43%

SCORE: 0.446

RANK: 9/18 DEPARTMENTS ASSESSED

Households receiving Garbage Collection



SCORE: 0.746

RANK: 4/18 DEPARTMENTS ASSESSED



107.33 Property Crime Rate (per 100,000 People)



Environmental Capacity

1 SCORE: 0.392

RANK: 7/18 DEPARTMENTS ASSESSED

Protected Area

6.91%

(COPING CAPACITY CONTINUED)



Infrastructure Capacity

1 SCORE: 0.605

RANK: 7/18 DEPARTMENTS ASSESSED



Health Care Capacity SCORE: 0.421 RANK: 11/18 DEPARTMENTS ASSESSED

7.25 Hopital Beds per

15.35 Physicians per 15.99 Nurses per 10,000 3,561.78 Average Distance to Nearest 65.48% Vaccination

71.48%

10,000 People

10,000 People

People

Hospital (km2)

Coverage

Access to Healthcare



Transportation Capacity SCORE: 0.600 RANK: 3/18 DEPARTMENTS ASSESSED

1.22

48.84

Road Density (km per sq. km)

Distance to Airport or Seaport (km)



Communications Capacity SCORE: 0.478 RANK: 11/18 DEPARTMENTS ASSESSED

95.8%

5.24%

Households with Mobile Phone

Households with Fixed Phone



Energy Capacity SCORE: 0.921 RANK: 7/18 DEPARTMENTS ASSESSED

98.94%

Households Connected to Electric Grid



Disaster Management Capacity

3.17

100,000 People

1 SCORE: 0.679

RANK: 4/18 DEPARTMENTS ASSESSED

Ambulances per

47.97 Distance to Fire Station 32.84

Distance to Warehouse



RESILIENCE (R)

RANK: 6 / 18 DEPARTMENTS

SCORE: 0.548

Guairá's score and ranking are due to Low Vulnerability combined with Moderate Coping Capacity scores.

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



Information Access Vulnerability



Gender Inequality



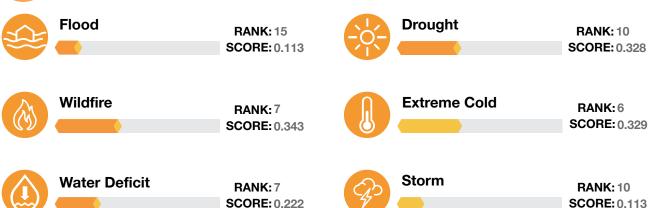
Health Care Capacity



Communications Capacity



HAZARD-SPECIFIC RISK (HSR)





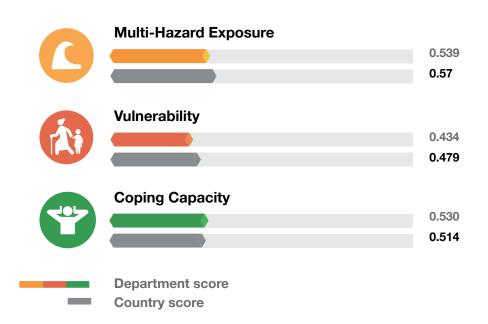
MULTI-HAZARD RISK (MHR)

11 / 18

Rank within departments Score: 0.481

Guairá's score and ranking are due to Moderate Multi-hazard exposure combined with Low Vulnerability and Moderate Coping Capacity scores.

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





Information Access Vulnerability

Limitations in information access can impede a population's ability to receive, understand, and take action. Emergency messages must take into account the unique information access constraints of the district. Emergency messages presented to the population of Guairá must contain clear and simple information to ensure an appropriate response to save lives and reduce losses.

Findings show that Guairá has the 7th highest illiteracy rate in Paraguay (9%), combined with the 6th lowest average years of schooling, at 7.28. Focus efforts on providing programs to increase literacy rates and promote continued education. Work with communities to better understand the underlying factors that represent barriers to education and literacy. In Particular, poverty and gender inequalities may also drive the disparities.

Efforts should also be focused on ensuring households have reliable access to lines of communications within their homes. Just 10% of homes in Guairá have internet. Disaster managers should take advantage of the household capacities and work with local radio and television broadcasting stations to deliver critical messages. A significant proportion of the department's population is exposed to extreme cold, wildfire, and drought hazards. Effective communication of updates and warnings to the public is critical to reducing disaster risk.

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Gender Inequality

Marginalized populations are less likely to have their needs met under pre-disaster conditions, and therefore become even more susceptible to harm during times of disaster. Increase gender-based inclusion in all phases of DM, ensuring the implementation at the district and local levels. Course of action must recognize the role of women in society and support changes to policies and programs to promote gender-equal access.

Although Guairá ranks 11th of 18 departments in Gender Inequality, findings highlight income disparities for women. Increase funding of public programs that are focused on empowering women to continue their education and join the workforce. Programs should ensure women have the training and skills needed to reduce wage and employment gaps.

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Health Care Capacity

Robust access to skilled caregivers and the dedicated facilities for the treatment of injury and disease during nondisaster times greatly enhances the ability of the served population to absorb and manage post-disaster impacts to health, and increases the likelihood that disaster associated health and medical impacts may be addressed.

Invest in increased healthcare capacity by allocating funds for infrastructure and public health education. In addition to increasing the number of facilities, supplies and staff, funds should focus on public health campaigns.

Promotion of vaccinations, healthy lifestyles and use of primary care will help boost the health of the population to reduce the burden on the healthcare sector. With limited access to information in the department, community health campaigns and expanded partnerships with NGOs and the private sector are needed to educate and meet the health care needs of the population.

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Communications Capacity

The density, diversity, resilience, and quality of communications infrastructure influence how department- and local-level populations able to facilitate effective and coordinated communication.

Overall, Communications Capacity in Guairá is ranked 11th out of the 18 departments in Paraguay. Expand all communications infrastructure to the department to ensure coverage, accessibility, and reliability of multimodal communications before, during, and after a disaster.

Increasing communications capacity and information technology will also reduce vulnerability by increasing access to Information, ensuring that populations receive, understand, and take appropriate actions when information is provided.



Better solutions. Fewer disasters.

Safer World.

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