



PARAGUAY

CENTRAL

NDPBA DEPARTMENT PROFILE

PARAGUAY CENTRAL

CAPITAL: AREGUÁ

Area: 2,977 (km²)

The Central department is located in the Eastern region of Paraguay. This department is divided into 19 districts: Areguá (The Capital), Capiatá, Fernando de la Mora, Guarambaré, Itá, Itauguá, Lambaré, Limpio, Luque, Mariano Roque Alonso, Nueva Italia, Ñemby, San Antonio, San Lorenzo, Villa Elisa, Villeta, Ypacaraí, Ypané, J. Augusto Saldívar. The department borders Argentina, Asuncion DC and the departments of Presidente Hayes, Cordillera, Paraguari and Ñeembucú. The main economic sources are industrial production includes the processing of food, furniture, clothing, pharmaceutical production, metallurgic, plastic and ceramics.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Low
Score: 0.450 • Rank: 14/18



RESILIENCE (R) - Very High
Score: 0.674 • Rank: 2/18



MULTI-HAZARD EXPOSURE (MHE) - High
Score: 0.699 • Rank: 5/18



VULNERABILITY (V) - Very Low
Score: 0.298 • Rank: 17/18



COPING CAPACITY (CC) - Very High
Score: 0.646 • Rank: 2/18



Population (2015)
2,115,174



Infant Mortality Rate
10.9



Illiterate population
2.9%



Access to improved water
96.2%



Average life expectancy
74.6 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 5 / 18 DEPARTMENT
SCORE: 0.699




MHE
0.699

Raw MHE
1.000

Relative MHE
0.399


ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:

Inland Flood




2%
 45,175
\$1.3 Billion

Wildfire




98%
 1,929,662
\$34.5 Billion

Water Deficit



0%
 9,459
\$138.4 Million

Drought




100%
 1,973,500
\$35.2 Billion

Extreme Cold



-
 -
 -

Storm



-
 -
 -



VULNERABILITY (V)

RANK: 17 / 18 DEPARTMENTS ASSESSED
SCORE: 0.298

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



Environmental Stress

0 1 **SCORE: 0.196** **RANK: 16/18 DEPARTMENTS ASSESSED**

-0.35% **6.16%**
Cultivated Area Change Deforestation



Vulnerable Health Status

0 1 **SCORE: 0.248** **RANK: 18/18 DEPARTMENTS ASSESSED**

74.57 **10.9** **41.2** **43.08** **28.1%** **40.7%**
Life Expectancy (years) Infant Mortality Rate (per 1,000 live births) Maternal Mortality Ratio Adult Malnutrition Population with Disability Population Reporting Illness or Injury



Clean Water Vulnerability

0 1 **SCORE: 0.039** **RANK: 17/18 DEPARTMENTS ASSESSED**

96.19% **96.39%**
Households with Improved Water Source Households with Improved Sanitation



Information Access Vulnerability

0 1 **SCORE: 0.085** **RANK: 17/18 DEPARTMENTS ASSESSED**

2.9% **10.1** **27.47%** **96.58%** **86.9%**
Illiteracy Rate (Age 10+) Average Years of Schooling Households with Internet Households with Television Households with Radio



Economic Constraints

0 1 **SCORE: 0.043** **RANK: 18/18 DEPARTMENTS ASSESSED**

50.8 **16.18%** **0.36**
Economic Dependency Ratio Poverty Rate Income Inequality (GINI)



Gender Inequality

0 1 **SCORE: 0.471** **RANK: 10/18 DEPARTMENTS ASSESSED**

0.22 **0.28** **0.22**
Female to Male Secondary Education* Female to Male Economic Activity* Female to Male Average Monthly Income*

*Higher values indicate greater gender disparity.



Population Pressures

0 1 **SCORE: 1.000** **RANK: 1/18 DEPARTMENTS ASSESSED**

2.34%
Average Annual Population Change



COPING CAPACITY (CC)

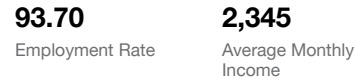
RANK: 2 / 18 DEPARTMENTS ASSESSED
SCORE: 0.646

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



Economic Capacity

SCORE: 0.530 **RANK: 10/18 DEPARTMENTS ASSESSED**



Governance

SCORE: 0.537 **RANK: 6/18 DEPARTMENTS ASSESSED**



Crime Governance

SCORE: 0.5 **RANK: 13/18 DEPARTMENTS ASSESSED**



Environmental Capacity

SCORE: 0.723 **RANK: 3/18 DEPARTMENTS ASSESSED**



(COPING CAPACITY CONTINUED)



Infrastructure Capacity

0 1 **SCORE: 0.805** **RANK: 2/18 DEPARTMENTS ASSESSED**



Health Care Capacity **SCORE: 0.506** **RANK: 5/18 DEPARTMENTS ASSESSED**

7.01 Hospital Beds per 10,000 People	17.34 Physicians per 10,000 People	15.07 Nurses per 10,000 People	3,371.45 Average Distance to Nearest Hospital (km2)	82.83% Vaccination Coverage	72.87% Access to Healthcare
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Transportation Capacity **SCORE: 0.789** **RANK: 2/18 DEPARTMENTS ASSESSED**

4.29 Road Density (km per sq. km)	34.04 Distance to Airport or Seaport (km)
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Communications Capacity **SCORE: 0.943** **RANK: 2/18 DEPARTMENTS ASSESSED**

97.7% Households with Mobile Phone	15.48% Households with Fixed Phone
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Energy Capacity **SCORE: 0.981** **RANK: 4/18 DEPARTMENTS ASSESSED**

99.69%
Households Connected to
Electric Grid



Disaster Management Capacity

0 1 **SCORE: 0.608** **RANK: 8/18 DEPARTMENTS ASSESSED**

0.68 Ambulances per 100,000 People	23.52 Distance to Fire Station	34.29 Distance to Warehouse
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RESILIENCE (R)

RANK: 2 / 18 DEPARTMENTS
SCORE: 0.674

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

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



Population Pressures



Gender Inequality



Health Care Capacity



Economic Capacity



HAZARD-SPECIFIC RISK (HSR)



Flood

RANK: 16
SCORE: 0.090



Drought

RANK: 11
SCORE: 0.326



Wildfire

RANK: 10
SCORE: 0.325



Extreme Cold

RANK: 9
SCORE: 0.000



Water Deficit

RANK: 16
SCORE: 0.007



Storm

RANK: 12
SCORE: 0.000



MULTI-HAZARD RISK (MHR)



14 / 18

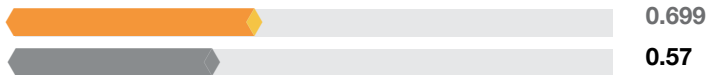
Rank within departments
Score: 0.450

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

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



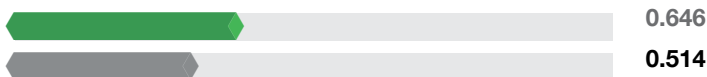
Multi-Hazard Exposure



Vulnerability



Coping Capacity



Department score
 Country score

CENTRAL RECOMMENDATIONS



Population Pressures

Rapid changes in population size and distribution can alter population vulnerability characteristics presenting planning challenges and destabilizing social, economic, and environmental systems. Increased population pressures require disaster managers to realign needs, institutional structures, and available resources to support delivery of basic resources before, during, and after an event.

Central ranked highest for Population Pressures with an average annual total population change of 2.34%, which demonstrates the need to grow the economy and infrastructure sustainably.

Focus investments on public programs to reduce marginalization of women and assist in the employment of the working-age population. Providing trainings and financial assistance to increase employment rates can help to stimulate the economy and generate public funds for disaster risk reduction activities.

CENTRAL RECOMMENDATIONS

2

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 the ratio of female to male income and economic activity in Central is relatively balanced, the secondary school enrollment ratio shows inequalities in education. Focus efforts on promoting equal access to education and encouraging young women to pursue higher academic achievements beyond primary school. Work with stakeholders and partners to provide community outreach that empowers women to continue their education.

Continue to monitor educational and economic success of women throughout society. As the population grows the already limited resources will be increasingly strained. Closely monitor public programs and projects such as those encouraging gender equality to ensure resources are being properly utilized.

CENTRAL RECOMMENDATIONS

3

Health Care Capacity

Robust access to skilled caregivers and the dedicated facilities for the treatment of injury and disease during non-disaster 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 hospital beds, medical staff and infrastructure. Population growth will continue to increase the demand on the already limited healthcare resources.

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 economic capacity in the department expanded partnerships with NGOs and the private sector are needed.

CENTRAL RECOMMENDATIONS

4

Economic Capacity

A strong economic foundation provides an indication of a department's ability to absorb economic losses and quickly mobilize financial assets for preparedness, response and recovery activities. Central's limited economic capacity correlates to disproportionate disaster impacts.

Continue to encourage programs that diversify the economy in Central to generate public revenue and create new job opportunities. Pursue policies create equal opportunities for employment and fair wages. Focus on ensuring that incomes grow equitably across the department and mirror achievements in economic growth.

The employment rate in Central is 93.7% which is the 5th lowest in the country. Assess current policies and ensure that they are creating a business environment that encourages growth. Additionally, focus public policies on utilizing technological advancements and proven best practices.

**Better solutions.
Fewer disasters.**

Safer world.

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