



**THE PHILIPPINES**

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**PAMPANGA**

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**NDPBA PROVINCE PROFILE**

# THE PHILIPPINES

## PAMPANGA

### CAPITAL: CITY OF SAN FERNANDO

Area: 2,001 km<sup>2</sup>

Pampanga is a province in the Central Luzon region of the Philippines located on the northern shore of Manila Bay and bordered by Tarlac to the north, Nueva Ecija to the northeast, Bulacan to the east. It has two distinct climates – rainy and dry – with the rainy season running from May through October. The two main industries are farming and fishing. Major crops are rice, corn, sugarcane, and tilapia.



## RISK AND VULNERABILITY COMPONENT SCORE



### MULTI-HAZARD RISK (MHR) - Medium

Score: 0.5 • Rank: 44/84



### RESILIENCE (R) - Very High

Score: 0.649 • Rank: 8/84



### MULTI-HAZARD EXPOSURE (MHE) - Very High

Score: 0.799 • Rank: 9/84



### VULNERABILITY (V) - Very Low

Score: 0.328 • Rank: 75/84



### COPING CAPACITY (CC) - Very High

Score: 0.625 • Rank: 13/84



Population (2018)

**2,394,061**



Population in Poverty

**1.9%**



Literate population

**99.4%**



Access to improved water

**93.9%**



Average life expectancy

**70.9 years**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 9 / 84 PROVINCES  
SCORE: 0.799



MHE  
0.799

Raw MHE  
0.775

Relative MHE  
0.822

### ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

**100%**

**2,394,038**  
**\$5.5 Billion**



Tsunami

**<1%**

**17,077**  
**\$5.8 Million**



Flood

**99%**

**2,369,805**  
**\$5.5 Billion**



Liquefaction

**95%**

**2,272,356**  
**\$4.9 Billion**



Landslide

**<1%**

**18,317**  
**\$25.4 Million**



Volcano

**1%**

**25,369**  
**\$74.8 Million**



Drought

**-**

**-**

**-**



Wildfire

**16%**

**392,777**  
**\$682.8 Million**



Storm Surge

**2%**

**41,754**  
**\$16 Million**



Typhoon Winds

**100%**

**2,394,057**  
**\$5.5 Billion**



## VULNERABILITY (V)

**RANK: 75 / 84 PROVINCES ASSESSED**  
**SCORE: 0.328**

Vulnerability in Pampanga is primarily driven by Population Pressures and Environmental Stress. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



### Environmental Stress

0 1 **SCORE: 0.517** **RANK: 30/84** PROVINCES ASSESSED

**1.76** **59.37** **3.01%**  
 Livestock density Barren land (per 10k hectares) Forest cover change



### Vulnerable Health Status

0 1 **SCORE: 0.22** **RANK: 84/84** PROVINCES ASSESSED

**4.8%** **1.86** **27.42** **70.86** **101**  
 Malnutrition among children (0 to 5 years old) Infant mortality rate (per 1k live births) Maternal mortality rate (per 100k live births) Life expectancy Disability (per 100k persons)

**15** **0.1** **2.4** **1**  
 Tuberculosis mortality rate (per 100k persons) HIV mortality rate (per 100k persons) Intestinal disease mortality rate (per 100k persons) Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



### Clean Water Vulnerability

0 1 **SCORE: 0.318** **RANK: 58/84** PROVINCES ASSESSED

**93.9%** **92.5%**  
 Households with improved safe water source Households with sanitary toilet facility



### Information Access Vulnerability

0 1 **SCORE: 0.205** **RANK: 82/84** PROVINCES ASSESSED

**99.41%** **107.36%** **13.87%** **71.18%** **94.03%**  
 Literacy rate (age 10 and older) Gross primary school enrollment rate Internet Access Households with radio Households with television



### Economic Constraints



SCORE: 0.091

RANK: 81/84 PROVINCES ASSESSED

**0.52**  
Economic  
dependency  
ratio

**1.94%**  
Poverty  
incidence



### Gender Inequality



SCORE: 0.39

RANK: 55/84 PROVINCES ASSESSED

**1.06**  
Female to male  
secondary school  
enrollment Rate

**0.49**  
Labor force  
participation ratio



### Population Pressures



SCORE: 0.552

RANK: 10/84 PROVINCES ASSESSED

**3.1**  
Population  
growth rate  
(2010-2015)

**5.44**  
Average annual  
urban population  
growth rate

**1.8%**  
Informal settlers



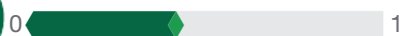
## COPING CAPACITY (CC)

**RANK: 13 / 84 PROVINCES ASSESSED**  
**SCORE: 0.625**

Pampanga exhibits weaker Coping Capacity in the areas of Emergency Services Capacity and Economic Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



### Economic Capacity

0  1 **SCORE: 0.414** **RANK: 71/84 PROVINCES ASSESSED**

**0.88**

Purchasing power of the peso

**61.04%**


Labor force participation rate

**1012.08**

Local government annual regular income per capita (Philippine Peso)



### Governance

0  1 **SCORE: 0.766** **RANK: 6/84 PROVINCES ASSESSED**

**82.5%**

Voter participation

**3.8**

Organized violence (per 100k persons)

**66.26%**

Garbage pickup



### Environmental Capacity

0  1 **SCORE: 0.596** **RANK: 9/84 PROVINCES ASSESSED**

**17.54**

Protected areas (per 1k ha)

**27.5%**

Forest reserves



### Infrastructure Capacity

0 1 **SCORE: 0.705** **RANK: 7/84** PROVINCES ASSESSED



### Health Care Capacity **SCORE: 0.658** **RANK: 9/84** PROVINCES ASSESSED

<b>9.64</b>	<b>3.97</b>	<b>65.60%</b>	<b>2.73</b>
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



### Transportation Capacity **SCORE: 0.817** **RANK: 3/84** PROVINCES ASSESSED

<b>3.96</b>	<b>12.2</b>
Road density (km per sq. km)	Average distance to nearest port (km)



### Communications Capacity **SCORE: 0.803** **RANK: 19/84** PROVINCES ASSESSED

<b>8.2%</b>	<b>93.5%</b>
Households with a landline	Mobile coverage



### Energy Capacity **SCORE: 0.979** **RANK: 2/84** PROVINCES ASSESSED

<b>96.2%</b>	<b>75.5%</b>
Households with electricity	Households with gas



### Emergency Services Capacity **SCORE: 0.267** **RANK: 71/84** PROVINCES ASSESSED

<b>10.98</b>	<b>0.92</b>	<b>1.72</b>
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



## RESILIENCE (R)

**RANK: 8 / 84 PROVINCES ASSESSED**  
**SCORE: 0.649**

Pampanga'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



Environmental Stress



Emergency Services Capacity



Economic Capacity



## HAZARD-SPECIFIC RISK (HSR)



**Earthquake**

**RANK: 33 / 84 PROVINCES ASSESSED**  
**SCORE: 0.281**



**Tsunami**

**RANK: 30 / 84 PROVINCES ASSESSED**  
**SCORE: 0.098**



**Flood**

**RANK: 10 / 84 PROVINCES ASSESSED**  
**SCORE: 0.319**



**Liquefaction**

**RANK: 11 / 84 PROVINCES ASSESSED**  
**SCORE: 0.306**



**Landslide**

**RANK: 82 / 84 PROVINCES ASSESSED**  
**SCORE: 0.046**



**Volcano**

**RANK: 28 / 84 PROVINCES ASSESSED**  
**SCORE: 0.133**

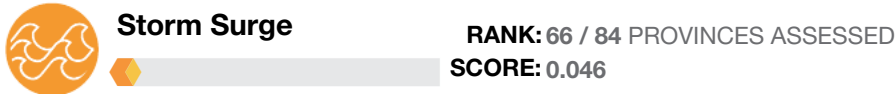
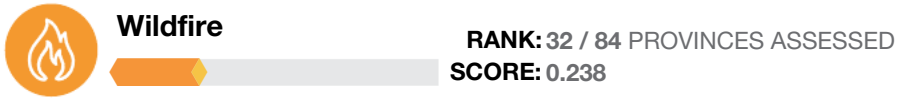


**Drought**

**RANK: 58 / 84 PROVINCES ASSESSED**  
**SCORE: 0.000**



**(HAZARD-SPECIFIC RISK CONTINUED)**



**MULTI-HAZARD RISK (MHR)**

**45 / 84**

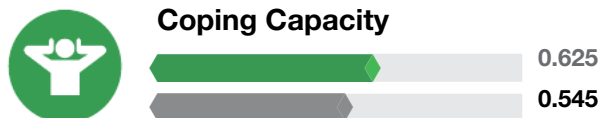
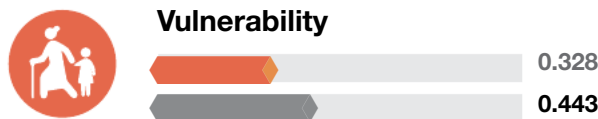
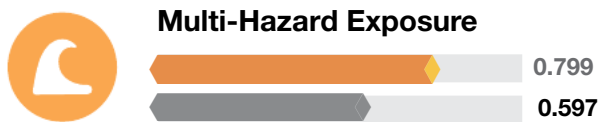
RANK WITHIN PROVINCES  
Score: 0.5



Pampanga’s score and ranking are due to Very 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:**

PROVINCE SCORE  
COUNTRY SCORE



# PAMPANGA RECOMMENDATIONS

## 1

### Population Pressures

- Ranked 4th in the Philippines, Pampanga’s population grew at a rate of 3.1 between 2010 and 2015. Continue to monitor the growth of the population and plan resource allocation appropriately. Work with diverse partners to help stimulate the economy to support increased public demands. Ensure equitable distribution of resources and services.
- Environmental stress is already leading to vulnerabilities in Pampanga. Enforce building codes and environmental protection laws to ensure expansion is sustainable. Also, focus efforts on bringing in funds and innovations for enhancing the built environment.

## 2

### Environmental Stress

- Population pressures are also a major driver of vulnerability in Pampanga. Promoting sustainable agriculture and protection of natural areas will ensure resource production can keep up with increased demands as the population grows. Focus efforts on increasing forest cover, decreasing areas classified as barren land and promoting sustainable agriculture.

## 3

### Emergency Services Capacity

- Continue work with partners such as the Philippines Red Cross to expand and enhance emergency service capacity. Increase the number of evacuation centers, fire stations and fire trucks to serve the population and increase emergency service capacity.
- Continue to support evidence-based preparedness and response coordination, including the provision of emergency equipment and supplies. Additionally, increase efforts to have a central database that makes sub-national data on disaster management capabilities and resources more accessible. Increasing transparency through sharing data will ensure efficient and effective coordination at all levels of government, as well as with partners.

# 4

## Economic Capacity

- Pampanga ranked 71st out of the 84 territories in economic capacity. Continue to encourage programs that diversify the economy in Pampanga to generate public revenue and create new job opportunities. Pursue policies that balance inflation rates and create equal opportunities for employment.
- As the population grows, there will be increases in the demands for emergency services and public programs. Work with stakeholders and partners to expand emergency service capacities by training community members and generating funds to support response activities.

**Better solutions.  
Fewer disasters.**

# Safer world.

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