

## THE PHILIPPINES

# **PANGASINAN**

## **NDPBA PROVINCE PROFILE**



# THE PHILIPPINES PANGASINAN

**CAPITAL: LINGAYEN** 

Area: 5,451 km<sup>2</sup>

Pangasinan is a province in the Philippines located in the Ilocos Region of Luzon. It is on the western area of the island of Luzon along the Lingayen Gulf and West Philippine Sea. The province is mostly flat with few hills or mountainous zones. Due to the flat land the economy is la gely agricultural growing coconut, rice, mango, and eggplant.



#### **RISK AND VULNERABILITY**

**COMPONENT SCORE** 



**MULTI-HAZARD RISK (MHR) - High** 

Score: 0.541 • Rank: 19/84



**RESILIENCE (R) - High** 

Score: 0.603 • Rank: 20/84



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

Score: 0.830 • Rank: 6/84



**VULNERABILITY (V) - Very Low** 

Score: 0.352 • Rank: 70/84



**COPING CAPACITY (CC) - Medium** 

Score: 0.558 • Rank: 43/84

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



Population (2018)

3,017,739



**Population in Poverty** 

9.2%



Literate population

99.4%



Access to improved water

97.3%



Average life expectancy

**68.6** years

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### **MULTI-HAZARD EXPOSURE (MHE)**

**RANK: 6 / 84 PROVINCES** 

**SCORE: 0.830** 



MHE 0.830

Raw MHE 0.881

Relative MHE 0.778

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



**Earthquake** 

96%

**2**,901,032 \$14.7 Billion

**₩** 

Flood

84%

**2**,519,870 \$12.6 Billion



Landslide

1%

**33,433** 

\$166.8 Million



**Drought** 

**å** .

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**Storm Surge** 

14%

**♣** 418,948 \$1.9 Billion



Tsunami

<1%

**2**,779

\$7.9 Million



Liquefacton

83%

**2**,493,193 \$12.5 Billion



Volcano

<1%

**\$** 5,270

\$26.3 Million



Wildfire

10%

**288,385** \$1.7 Billion



**Typhoon Winds** 

100%

♣ 3,012,852 \$14.9 Billion



## **VULNERABILITY (V)**

**RANK: 70 / 84 PROVINCES ASSESSED** 

**SCORE: 0.352** 

Vulnerability in Pangasinan is primarily driven by Environmental Stress and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



#### **Environmental Stress**

1 **SCORE: 0.516 RANK: 31/84 PROVINCES ASSESSED** 

2.89 47.35

Livestock Barren land (per Forest cover 10k hectares) density change

4.50%

mortality rate

(per 100k live births)

#### Vulnerable Health Status

SCORE: 0.415 **RANK: 55/84 PROVINCES ASSESSED** 

5.9% Malnutrition among children (0 to 5 years old)

5.86 Infant mortality rate (per 1k live births)

53.49 68.64 Maternal

Life expectancy

Disability (per 100k persons)

291

24

Tuberculosis mortality rate (per 100k persons)

0.1 HIV mortality

Intestinal disease mortality rate (per 100k rate (per 100k persons) persons)

5.4

1.1 Other

arthropodborne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



#### Clean Water Vulnerability



SCORE: 0.194

**RANK: 78/84 PROVINCES ASSESSED** 

97.3% Households with improved safe water source

94.6% Households with sanitary toilet facility



#### **Information Access Vulnerability**

SCORE: 0.314

RANK: 74/84 PROVINCES ASSESSED

99.35%

112.01% school

5.32% Internet Access

1

73.68% Households 82.45% Households with television

Literacy rate (age 10 and older)

Gross primary enrollment rate

with radio

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#### **Economic Constraints**

0.61 Economic

dependency ratio

**9.17%**Poverty incidence

1 SCORE: 0.303

SCORE: 0.362

**RANK: 56/84 PROVINCES ASSESSED** 

**RANK: 58/84 PROVINCES ASSESSED** 



#### **Gender Inequality**

1.04
Female to male secondary school enrollment Rate

**0.48**Labor force participation ratio

# Population

#### **Population Pressures**

1.18

Population growth rate (2010-2015) **8.91**Average annual urban population growth rate

SCORE: 0.358

358 RANK: 59/84 PROVINCES ASSESSED

Informal settlers

1.4%



## **COPING CAPACITY (CC)**

**RANK: 43 / 84 PROVINCES ASSESSED** 

**SCORE: 0.558** 

Pangasinan 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**



1 SCORE: 0.484 RANK: 51/84 PROVINCES ASSESSED

1081.54

Purchasing power of the peso

Labor force participation rate

Local government annual regular income per capita (Philippine Peso)

Garbage pickup



#### Governance

85.1% 6.06
Voter participation Organized violence (per 100k persons)

SCORE: 0.69 RANK: 27/84 PROVINCES ASSESSED 20.59%



#### **Environmental Capacity**

0.18
Protected areas
(per 1k ha)

17.6% Forest reserves

1 SCORE: 0.331 RANK: 51/84 PROVINCES ASSESSED

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#### **Infrastructure Capacity**

**SCORE: 0.576 RANK: 35/84 PROVINCES ASSESSED** 



**Health Care Capacity SCORE: 0.577 RANK: 21/84 PROVINCES ASSESSED** 

7.53 2.89 68.72% 4.65

Hopital beds Physicians per Vaccination Average distance to nearest (per 10k people) 10,000 people coverage hospital (km)

**Transportation Capacity** SCORE: 0.577 **RANK: 26/84 PROVINCES ASSESSED** 

22.64 1.65

Road density Average distance to nearest port (km)

**Communications Capacity** 

SCORE: 0.532 RANK: 63/84 PROVINCES ASSESSED

5.8% 74.7%

Households with a landline Mobile coverage

**Energy Capacity** 

**SCORE: 0.829 RANK: 17/84 PROVINCES ASSESSED** 

90.5% 34.4%

Households with gas Households with electricity

**Emergency Services Capacity** 

SCORE: 0.367 RANK: 61/84 PROVINCES ASSESSED

1.39 2.28 13.1

Evacuation centers Fire Stations Fire Trucks (per 100k persons) (per 100k persons) (per 100k persons)



# **RESILIENCE (R)**

**Drought** 

**RANK: 20 / 84 PROVINCES ASSESSED** 

**SCORE: 0.603** 

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

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







Vulnerable Health



**Emergency Services Capacity** 



**Economic Capacity** 



# **HAZARD-SPECIFIC RISK (HSR)**

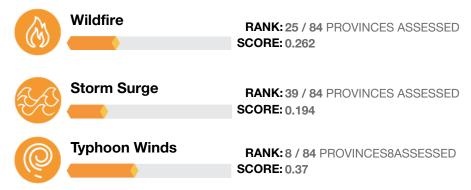
Earthquake	RANK: 8 / 84 PROVINCES ASSESSED SCORE: 0.377
Tsunami	RANK: 32 / 84 PROVINCES ASSESSED SCORE: 0.097
Flood	RANK: 2 / 84 PROVINCES ASSESSED SCORE: 0.366
Liquefaction	RANK: 3 / 84 PROVINCES ASSESSED SCORE: 0.368
Landslide	RANK: 78 / 84 PROVINCES ASSESSED SCORE: 0.088
Volcano	RANK: 39 / 84 PROVINCES ASSESSED SCORE: 0.113

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SCORE: 0.000

RANK: 58 / 84 PROVINCES ASSESSED

#### (HAZARD-SPECIFIC RISK CONTINUED)





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

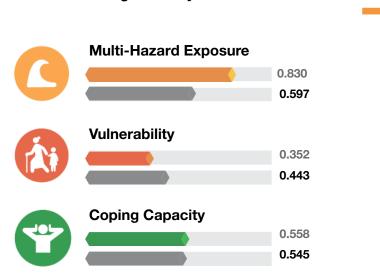
RA

19 / 84

RANK WITHIN PROVINCES Score: 0.541

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

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



PROVINCE SCORE
COUNTRY SCORE

#### PANGASINAN RECOMMENDATIONS

# 1

#### **Environmental Stress**

- Mitigation potential hazard impacts by promoting environmental protection and restoration.
   Focus efforts on increasing forest cover, decreasing areas classified as bar en land and promoting sustainable agriculture.
- Vulnerable health status is also a major driver of vulnerabilities in Pangasinan. Efforts to enhance
  the natural and built environment can improve health outcomes by decreasing runoff, mitigating
  the impacts of climate change and enhancing other ecosystem services.

# 2

#### **Vulnerable Health Status**

- Continue efforts to increase the health and well-being of the population in Pangasinan. Ensure
  community monitoring of infectious diseases and health care is available throughout the
  province.
- Expand partnerships to boost economic development and resources that can be used for
  public health interventions. Ensure health care is financially and physically accessible, as well as
  equipped to be able to accommodate patients with various health conditions.

# 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, fi e stations and fi e 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 e fective
  coordination at all levels of government, as well as with partners.

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#### **Economic Capacity**

Pangasinan ranked 51st out of 84 territories in economic capacity. Continue to encourage
programs that diversify the economy in Pangasinan to generate public revenue and
create new job opportunities. Pursue policies that balance inflation rates and c eate equal
opportunities for employment.



Better solutions. Fewer disasters.

# Safer World.

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