



THE PHILIPPINES

BATAAN

NDPBA PROVINCE PROFILE

THE PHILIPPINES

BATAAN

CAPITAL: CITY OF BALANGA

Area: 1,373 km²

Bataan is a mountainous, peninsular province located on the western side of Luzon, just west of Manila Bay. With access to the South China sea and Manila Bay, Bataan benefits from waterway access to markets and a gateway to economic opportunities. With robust industries in agriculture, fishery and manufacturing Bataan is considered to be leading the country in socio-economic growth. The booming industries have taken a toll on the ecosystem and significant deterioration of coastal areas and marine waters have been observed. Typhoons and earthquakes expose the largest proportions of the population.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very Low
Score: 0.443 • Rank: 74/84



RESILIENCE (R) - Very High
Score: 0.675 • Rank: 3/84



MULTI-HAZARD EXPOSURE (MHE) - High
Score: 0.677 • Rank: 27/84



VULNERABILITY (V) - Very Low
Score: 0.315 • Rank: 78/84



COPING CAPACITY (CC) - Very High
Score: 0.664 • Rank: 5/84



Population (2018)
733,906



Population in Poverty
5.7%



Literate population
99.4%



Access to improved water
94.8%



Average life expectancy
69.2 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 27 / 84 PROVINCES
SCORE: 0.677



MHE
0.677

Raw MHE
0.57

Relative MHE
0.785

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

97%

713,792
\$1.8 Billion



Tsunami

3%

23,170
\$8.9 Million



Flood

89%

650,483
\$1.7 Billion



Liquefaction

47%

345,695
\$1.2 Billion



Landslide

5%

39,676
\$72.6 Million



Volcano

<1%

2,371
\$6 Million



Drought

-

-
-



Wildfire

4%

26,308
\$20 Million



Storm Surge

34%

246,213
\$870.6 Million



Typhoon Winds

100%

732,954
\$1.9 Billion




VULNERABILITY (V)

RANK: 78 / 84 PROVINCES ASSESSED
SCORE: 0.315

Vulnerability in Bataan 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: 0.426** **RANK: 52/84 PROVINCES ASSESSED**

2.8 Livestock density
10.49 Barren land (per 10k hectares)
4.54% Forest cover change



Vulnerable Health Status

0  1 **SCORE: 0.342** **RANK: 70/84 PROVINCES ASSESSED**

4.6% Malnutrition among children (0 to 5 years old)
1.85 Infant mortality rate (per 1k live births)
29.63 Maternal mortality rate (per 100k live births)
69.15 Life expectancy
151 Disability (per 100k persons)

31.2 Tuberculosis mortality rate (per 100k persons)
0.1 HIV mortality rate (per 100k persons)
6 Intestinal disease mortality rate (per 100k persons)
1.8 Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



Clean Water Vulnerability

0  1 **SCORE: 0.3** **RANK: 61/84 PROVINCES ASSESSED**

94.8% Households with improved safe water source
92.6% Households with sanitary toilet facility



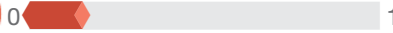
Information Access Vulnerability

0  1 **SCORE: 0.207** **RANK: 81/84 PROVINCES ASSESSED**

99.42% Literacy rate (age 10 and older)
115.48% Gross primary school enrollment rate
11.36% Internet Access
71.42% Households with radio
88.60% Households with television



Economic Constraints

0  1 **SCORE: 0.152** **RANK: 75/84** PROVINCES ASSESSED

0.53
Economic
dependency
ratio

5.74%
Poverty
incidence



Gender Inequality


0  1 **SCORE: 0.307** **RANK: 69/84** PROVINCES ASSESSED

1.05
Female to male
secondary school
enrollment Rate

0.54
Labor force
participation ratio



Population Pressures

0  1 **SCORE: 0.471** **RANK: 23/84** PROVINCES ASSESSED

1.94
Population
growth rate
(2010-2015)

7.29
Average annual
urban population
growth rate

2.0%
Informal settlers



COPING CAPACITY (CC)

RANK: 5 / 84 PROVINCES ASSESSED
SCORE: 0.664

Bataan 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: 0.499** **RANK: 45/84 PROVINCES ASSESSED**

0.88

Purchasing power of the peso

62.88%

Labor force participation rate

1696.82

Local government annual regular income per capita (Philippine Peso)



Governance

0 1 **SCORE: 0.776** **RANK: 3/84 PROVINCES ASSESSED**

83.5%

Voter participation

5.08

Organized violence (per 100k persons)

69.32%

Garbage pickup



Environmental Capacity

0 1 **SCORE: 0.715** **RANK: 4/84 PROVINCES ASSESSED**

202.32

Protected areas (per 1k ha)

13.8%

Forest reserves



Infrastructure Capacity



SCORE: 0.7

RANK: 8/84 PROVINCES ASSESSED



Health Care Capacity

SCORE: 0.595

RANK: 19/84 PROVINCES ASSESSED

8.59

Hopital beds
(per 10k people)

2.42

Physicians per
10,000 people

69.66%

Vaccination
coverage

3.26

Average distance to nearest
hospital (km)



Transportation Capacity

SCORE: 0.702

RANK: 11/84 PROVINCES ASSESSED

1.75

Road density
(km per sq. km)

10.8

Average distance to
nearest port (km)



Communications Capacity

SCORE: 0.882

RANK: 8/84 PROVINCES ASSESSED

8.0%

Households with a landline

100%

Mobile coverage



Energy Capacity

SCORE: 0.933

RANK: 8/84 PROVINCES ASSESSED

93.2%

Households with electricity

64.5%

Households with gas



Emergency Services Capacity

SCORE: 0.389

RANK: 55/84 PROVINCES ASSESSED

7.24

Evacuation centers
(per 100k persons)

1.52

Fire Stations
(per 100k persons)

3.16

Fire Trucks
(per 100k persons)



RESILIENCE (R)

RANK: 3 / 84 PROVINCES ASSESSED
SCORE: 0.675

Bataan'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: 66 / 84 PROVINCES ASSESSED
SCORE: 0.203



Tsunami

RANK: 26 / 84 PROVINCES ASSESSED
SCORE: 0.11



Flood

RANK: 32 / 84 PROVINCES ASSESSED
SCORE: 0.218



Liquefaction

RANK: 49 / 84 PROVINCES ASSESSED
SCORE: 0.162



Landslide

RANK: 75 / 84 PROVINCES ASSESSED
SCORE: 0.104



Volcano

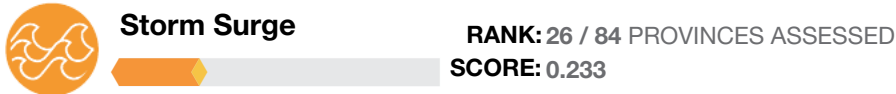
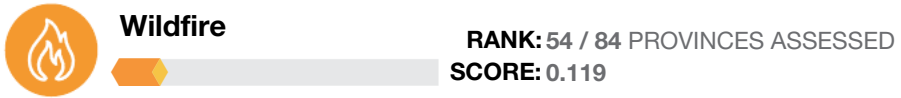
RANK: 55 / 84 PROVINCES ASSESSED
SCORE: 0.074



Drought

RANK: 58 / 84 PROVINCES ASSESSED
SCORE: 0.000

(HAZARD-SPECIFIC RISK CONTINUED)



MULTI-HAZARD RISK (MHR)

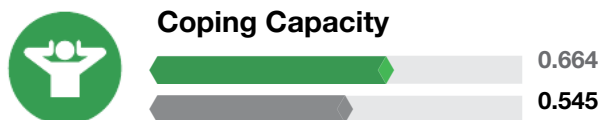
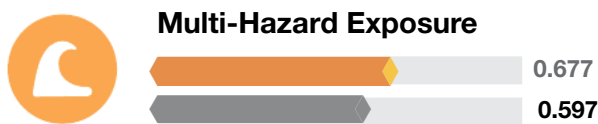
74 / 84
RANK WITHIN PROVINCES
Score: 0.443



Bataan'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:

PROVINCE SCORE
COUNTRY SCORE



BATAAN RECOMMENDATIONS

1

Population Pressures

- Continue to monitor the growth of the population and plan resource allocation appropriately. Enforce building codes and environmental protection laws to ensure expansion is sustainable.
- Work with diverse partners to help stimulate the economy to support increased demands. Ensure equitable distribution of resources and services.

2

Environmental Stress

- Flooding, typhoons and seismic hazards expose a large proportion of the population in Bataan. Allocate funds to improve the natural environment, which will help mitigate direct and indirect impacts of hazards. Continue to work toward a healthier environment through greening projects, reforestation efforts and sustainable agriculture.

3

Emergency Services Capacity

- Population pressures in Bataan are increasing the need to expand emergency service capacity. As the population grows, there is an increased demand on the already limited resources and space in evacuation shelters. 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

- Bataan ranked 44th out of the 84 territories in economic capacity. Continue to encourage programs that diversify the economy in Bataan 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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