



THE PHILIPPINES

BATANES

NDPBA PROVINCE PROFILE

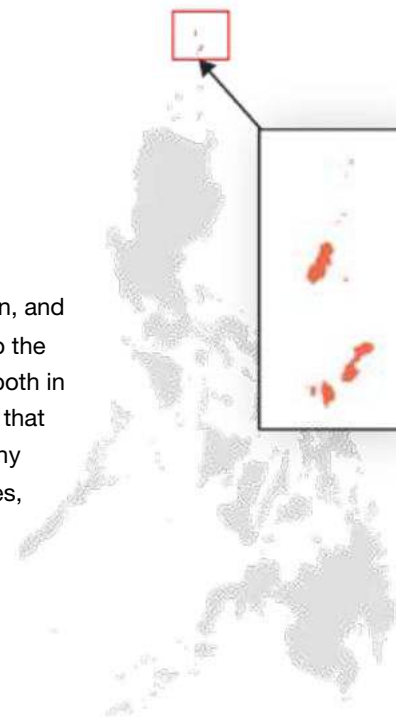
THE PHILIPPINES

BATANES

CAPITAL: BASCO

Area: 203 km²

Batanes is comprised of a small chain of ten islands some 160km from Luzon, and is therefore the northernmost province in the country. It lies almost as close to the islands of Taiwan as it does the Philippine mainland. It is also the smallest - both in terms of population and land area. It is highly susceptible to strong cyclones that pass through annually. The local population has seen little growth due to many people moving to the mainland of the Philippines, few economic opportunities, and the high price of imported goods.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very Low
Score: 0.228 • Rank: 84/84



RESILIENCE (R) - Very High
Score: 0.744 • Rank: 1/84



MULTI-HAZARD EXPOSURE (MHE) - Very Low
Score: 0.171 • Rank: 80/84



VULNERABILITY (V) - Very Low
Score: 0.263 • Rank: 84/84



COPING CAPACITY (CC) - Very High
Score: 0.752 • Rank: 1/84



Population (2018)
16,892



Population in Poverty
6.6%



Literate population
99.3%



Access to improved water
100.0%



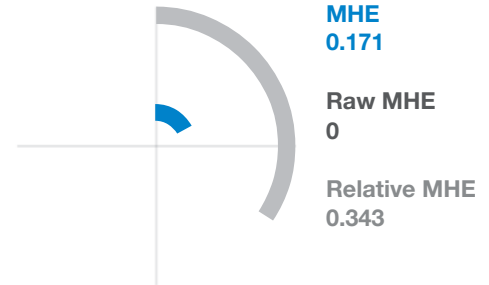
Average life expectancy
68.6 years

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

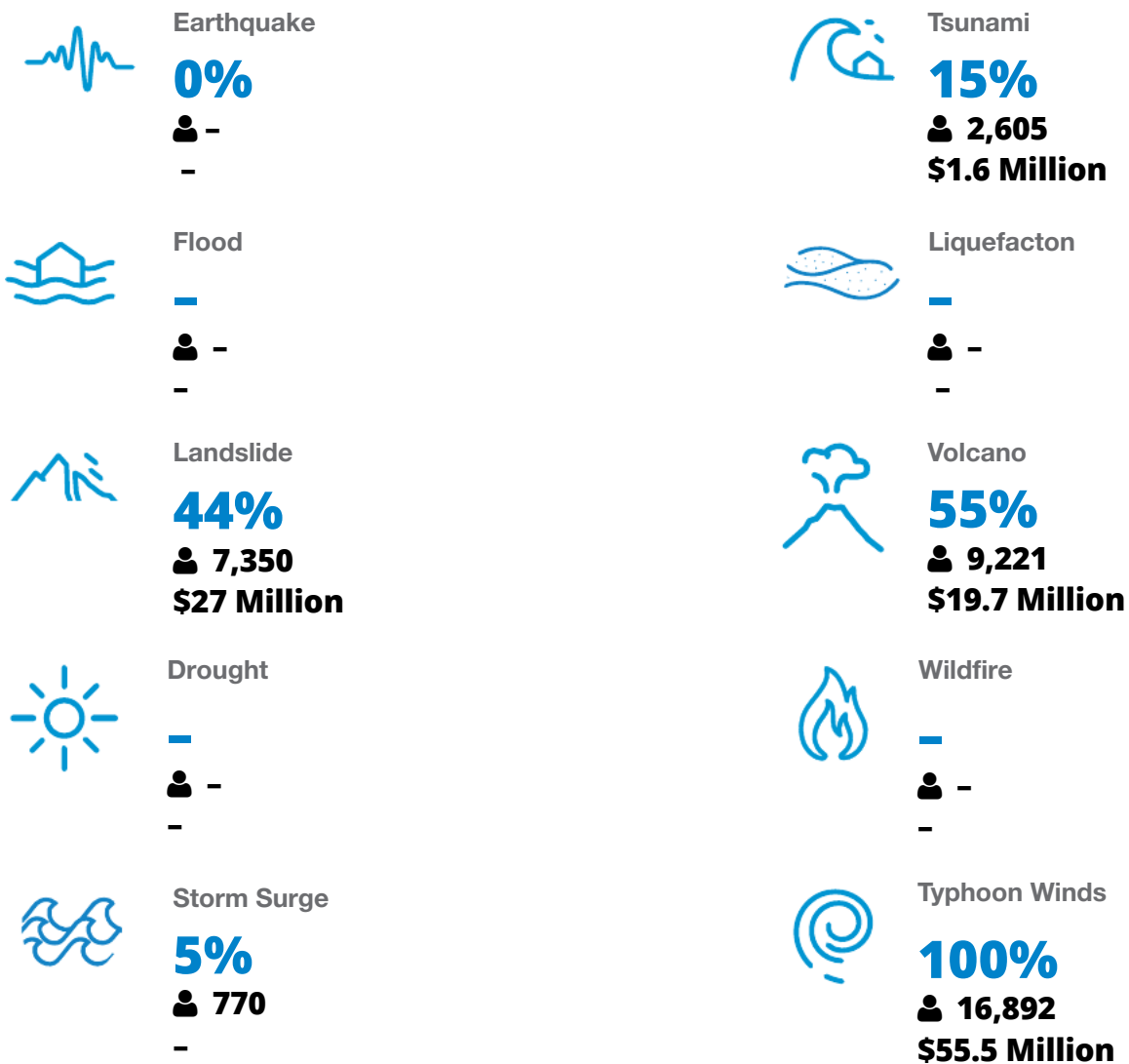


MULTI-HAZARD EXPOSURE (MHE)

RANK: 80 / 84 PROVINCES
SCORE: 0.171



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:






VULNERABILITY (V)

RANK: 84 / 84 PROVINCES ASSESSED
SCORE: 0.263

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



Environmental Stress

0  1 **SCORE: 0.651** **RANK: 6/84 PROVINCES ASSESSED**

5.5 Livestock density
47.4 Barren land (per 10k hectares)
1.20% Forest cover change



Vulnerable Health Status

0  1 **SCORE: 0.232** **RANK: 83/84 PROVINCES ASSESSED**

7.97 Malnutrition among children (0 to 5 years old)	0 Infant mortality rate (per 1k live births)	0 Maternal mortality rate (per 100k live births)	68.6 Life expectancy	63 Disability (per 100k persons)
24 Tuberculosis mortality rate (per 100k persons)	0 HIV mortality rate (per 100k persons)	0 Intestinal disease mortality rate (per 100k persons)	0 Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)	



Clean Water Vulnerability

0  1 **SCORE: 0** **RANK: 83/84 PROVINCES ASSESSED**

100.0% Households with improved safe water source
100.0% Households with sanitary toilet facility




Information Access Vulnerability

0  1 **SCORE: 0.383** **RANK: 63/84 PROVINCES ASSESSED**

99.28% Literacy rate (age 10 and older)
111.64% Gross primary school enrollment rate
7.96% Internet Access
53.93% Households with radio
74.40% Households with television



Economic Constraints

0  1 **SCORE: 0.263** **RANK: 66/84** PROVINCES ASSESSED

0.6
Economic
dependency
ratio

6.62%
Poverty
incidence



Gender Inequality

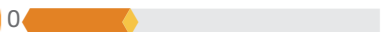
0  1 **SCORE: 0.022** **RANK: 84/84** PROVINCES ASSESSED

1.02
Female to male
secondary school
enrollment Rate

0.81
Labor force
participation ratio



Population Pressures

0  1 **SCORE: 0.291** **RANK: 77/84** PROVINCES ASSESSED

0.72
Population
growth rate
(2010-2015)

20.13
Average annual
urban population
growth rate

0.2%
Informal settlers



COPING CAPACITY (CC)

RANK: 1 / 84 PROVINCES ASSESSED
SCORE: 0.752

Batanes exhibits weaker Coping Capacity in the areas of Communications Capacity and Environmental Capacity. The bar chart indicates the socioeconomic themes contributing to the province's overall Coping Capacity score.



Economic Capacity

0  1 **SCORE: 0.881** **RANK: 1/84 PROVINCES ASSESSED**

0.9

Purchasing power of the peso

90.71%

Labor force participation rate

19893.39

Local government annual regular income per capita (Philippine Peso)



Governance

0  1 **SCORE: 0.939** **RANK: 1/84 PROVINCES ASSESSED**

87.8%

Voter participation

0

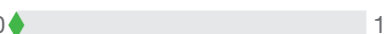
Organized violence (per 100k persons)

78.15%

Garbage pickup



Environmental Capacity

0  1 **SCORE: 0** **RANK: 77/84 PROVINCES ASSESSED**

0

Protected areas (per 1k ha)

0.0%

Forest reserves



Infrastructure Capacity

0 1 **SCORE: 0.686** **RANK: 10/84** PROVINCES ASSESSED



Health Care Capacity **SCORE: 0.71** **RANK: 4/84** PROVINCES ASSESSED

42.58	5.72	47.73%	4.26
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



Transportation Capacity **SCORE: 0.726** **RANK: 10/84** PROVINCES ASSESSED

1.44	5.21
Road density (km per sq. km)	Average distance to nearest port (km)



Communications Capacity **SCORE: 0.068** **RANK: 84/84** PROVINCES ASSESSED

0.2%	65.5%
Households with a landline	Mobile coverage



Energy Capacity **SCORE: 0.937** **RANK: 7/84** PROVINCES ASSESSED

97.2%	50.9%
Households with electricity	Households with gas



Emergency Services Capacity **SCORE: 0.987** **RANK: 1/84** PROVINCES ASSESSED

150.82	17.16	17.16
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



RESILIENCE (R)

RANK: 1 / 84 PROVINCES ASSESSED
SCORE: 0.744

Batanes’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:



Environmental Stress



Information Access Vulnerability



Communications Capacity



Environmental Capacity



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 79 / 84 PROVINCES ASSESSED
SCORE: 0.000



Tsunami

RANK: 25 / 84 PROVINCES ASSESSED
SCORE: 0.112



Flood

RANK: 74 / 84 PROVINCES ASSESSED
SCORE: 0.000



Liquefaction

RANK: 81 / 84 PROVINCES ASSESSED
SCORE: 0.000



Landslide

RANK: 71 / 84 PROVINCES ASSESSED
SCORE: 0.131



Volcano

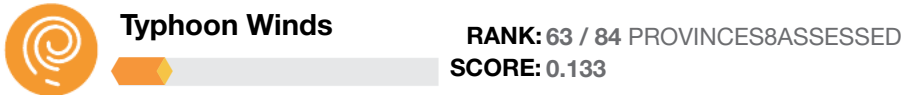
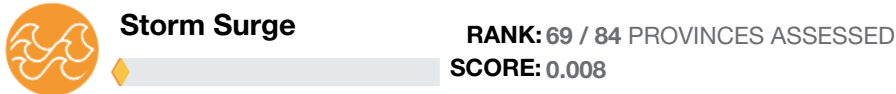
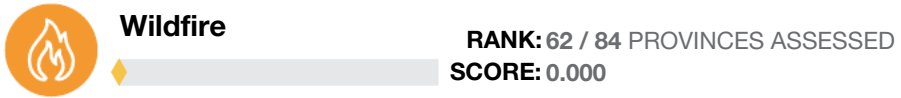
RANK: 17 / 84 PROVINCES ASSESSED
SCORE: 0.2



Drought

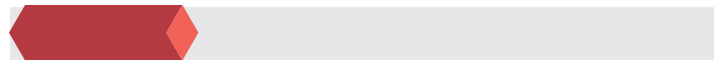
RANK: 58 / 84 PROVINCES ASSESSED
SCORE: 0.000

(HAZARD-SPECIFIC RISK CONTINUED)



MULTI-HAZARD RISK (MHR)

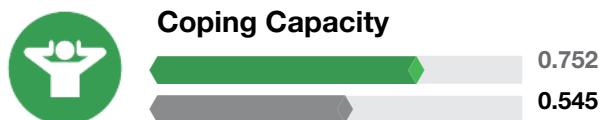
84 / 84
RANK WITHIN PROVINCES
Score: 0.228



Batanes’s score and ranking are due to Very Low 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



BATANES RECOMMENDATIONS

1

Environmental Stress

- Batanes is ranked 6th highest in the Philippines for environmental stresses. Focus efforts on increasing forest cover, decreasing barren land and practicing of sustainable agriculture.
- Findings show that 43% of the population is exposed to landslide hazards in Batanes. Promote soil conservation and forested areas, especially near sloped terranes.

2

Information Access Vulnerability

- In Batanes access to information and limitations in communications infrastructure are major drivers of vulnerability. Investments in education and distribution of household communication devices will enhance public dissemination of information, as well as ensure communities are able to understand and respond appropriately. Expansion of communications infrastructure should also be prioritized to ensure coverage and reliability in the event of a major disaster.
- Continue to provide public information on what to do during disasters early and often. Ensure emergency management plans consider the limitations in access and availability of communications infrastructure.

3

Communications Capacity

- Batanes is ranked lowest in communications capacity and specifically lowest in households with landlines (<1%). Only 66% of barangays have cell signal in the Province. The population of Batanes is also highly exposed to storm, landslide and volcanic hazards. Invest in communications infrastructure that is reinforced to withstand hazards and adds redundancy to the communication network.
- Improvements to communications infrastructure should be paralleled by increased households' access to telecommunication devices. Expand private and public partnerships in the meantime to plan emergency communications. Increasing communications is especially important in Batanes, as the province consists of small islands that are about 100 miles north of Luzon.

4

Environmental Capacity

- Efforts in Batanes to increase environmental protections are needed to help reverse the degradation already seen in the province.
- Batanes is ranked the 6th highest in environmental stress. Work with stakeholders and partners to determine lands that would be suitable to designate as protected areas. Continue to monitor environmental conditions and regulate activities in forests and other natural areas.

**Better solutions.
Fewer disasters.**

Safer world.

**1305 N Holocono Street
Suite 2, Kihei, HI 9675 3**

**P: (808) 891-0525
F: (808) 891-0526**



@PDC_Global



/PDCGlobal



www.pdc.prg



ndpba@pdc.org