

THE PHILIPPINES

BENGUET

NDPBA PROVINCE PROFILE

THE PHILIPPINES

BENGUET

CAPITAL: LA TRINIDAD

Area: 2,769 km²

Benguet is a landlocked province in north-central Luzon. The province is mountainous with peaks, ridges and canyons. The population estimate from the 2015 census makes it the most populated province in the region. Benguet is a major producer of highland agriculture, while floriculture and mining are also important sectors. The recent Polio outbreak in the country impacted Benguet and among the provinces under quarantine.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very Low
Score: 0.461 • Rank: 68/84



RESILIENCE (R) - Very High
Score: 0.638 • Rank: 12/84



MULTI-HAZARD EXPOSURE (MHE) - High
Score: 0.658 • Rank: 29/84



VULNERABILITY (V) - Very Low
Score: 0.329 • Rank: 74/84



COPING CAPACITY (CC) - High
Score: 0.605 • Rank: 18/84



Population (2018)
822,440



Population in Poverty
4.3%



Literate population
98.4%



Access to improved water
65.6%



Average life expectancy
69.7 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 29 / 84 PROVINCES
SCORE: 0.658



MHE
0.658

Raw MHE
 0.695

Relative MHE
 0.621

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

100%

822,440

\$9.1 Billion



Tsunami

-

-

-



Flood

<1%

7,223

\$35.5 Million



Liquefaction

9%

74,501

\$905.5 Million



Landslide

55%

453,613

\$3 Billion



Volcano

-

-

-



Drought

1%

8,698

\$25.6 Million



Wildfire

56%

461,302

\$7.1 Billion



Storm Surge

-

-

-



Typhoon Winds

100%

822,440

\$9.1 Billion



VULNERABILITY (V)

RANK: 74 / 84 PROVINCES ASSESSED
SCORE: 0.329

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



Environmental Stress

0  1 **SCORE: 0.478** **RANK: 39/84 PROVINCES ASSESSED**

2.54 Livestock density	35.47 Barren land (per 10k hectares)	4.88% Forest cover change
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Vulnerable Health Status

0  1 **SCORE: 0.249** **RANK: 81/84 PROVINCES ASSESSED**

2.4% Malnutrition among children (0 to 5 years old)	5.28 Infant mortality rate (per 1k live births)	31.99 Maternal mortality rate (per 100k live births)	69.72 Life expectancy	146 Disability (per 100k persons)
4.2 Tuberculosis mortality rate (per 100k persons)	0 HIV mortality rate (per 100k persons)	1.8 Intestinal disease mortality rate (per 100k persons)	2.4 Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)	



Clean Water Vulnerability

0  1 **SCORE: 0.494** **RANK: 29/84 PROVINCES ASSESSED**

65.6% Households with improved safe water source	93.0% Households with sanitary toilet facility
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Information Access Vulnerability

0  1 **SCORE: 0.319** **RANK: 73/84 PROVINCES ASSESSED**

98.36% Literacy rate (age 10 and older)	94.62% Gross primary school enrollment rate	12.48% Internet Access	85.42% Households with radio	81.22% Households with television
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Economic Constraints



SCORE: 0.123 **RANK: 78/84** PROVINCES ASSESSED

0.52
Economic
dependency
ratio

4.28%
Poverty
incidence



Gender Inequality



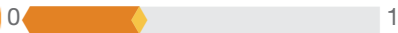
SCORE: 0.324 **RANK: 66/84** PROVINCES ASSESSED

1.08
Female to male
secondary school
enrollment Rate

0.58
Labor force
participation ratio



Population Pressures



SCORE: 0.318 **RANK: 72/84** PROVINCES ASSESSED

1.73
Population
growth rate
(2010-2015)

4.62
Average annual
urban population
growth rate

0.8%
Informal settlers




COPING CAPACITY (CC)

RANK: 18 / 84 PROVINCES ASSESSED
SCORE: 0.605

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



Economic Capacity

0  1 **SCORE: 0.468** **RANK: 56/84 PROVINCES ASSESSED**

0.88

Purchasing power of the peso

62.34%

Labor force participation rate

1387.09

Local government annual regular income per capita (Philippine Peso)



Governance

0  1 **SCORE: 0.652** **RANK: 38/84 PROVINCES ASSESSED**

81.7%

Voter participation

10.88


Organized violence (per 100k persons)

58.32%

Garbage pickup



Environmental Capacity

0  1 **SCORE: 0.512** **RANK: 21/84 PROVINCES ASSESSED**

19.46

Protected areas (per 1k ha)

11.2%

Forest reserves



Infrastructure Capacity

0 1 **SCORE: 0.726** **RANK: 2/84** PROVINCES ASSESSED



Health Care Capacity **SCORE: 0.666** **RANK: 7/84** PROVINCES ASSESSED

10.36	8.63	56.20%	3.92
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



Transportation Capacity **SCORE: 0.58** **RANK: 25/84** PROVINCES ASSESSED

1.26	17.96
Road density (km per sq. km)	Average distance to nearest port (km)



Communications Capacity **SCORE: 0.883** **RANK: 7/84** PROVINCES ASSESSED

8.4%	99.6%
Households with a landline	Mobile coverage



Energy Capacity **SCORE: 0.954** **RANK: 5/84** PROVINCES ASSESSED

91.9%	82.9%
Households with electricity	Households with gas



Emergency Services Capacity **SCORE: 0.545** **RANK: 27/84** PROVINCES ASSESSED

58.33	1.84	3.19
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



RESILIENCE (R)

RANK: 12 / 84 PROVINCES ASSESSED
SCORE: 0.638

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

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



Clean Water Access Vulnerability



Environmental Stress



Economic Capacity



Emergency Services Capacity



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 34 / 84 PROVINCES ASSESSED
SCORE: 0.280



Tsunami

RANK: 54 / 84 PROVINCES ASSESSED
SCORE: 0



Flood

RANK: 70 / 84 PROVINCES ASSESSED
SCORE: 0.011



Liquefaction

RANK: 70 / 84 PROVINCES ASSESSED
SCORE: 0.07



Landslide

RANK: 8 / 84 PROVINCES ASSESSED
SCORE: 0.342



Volcano

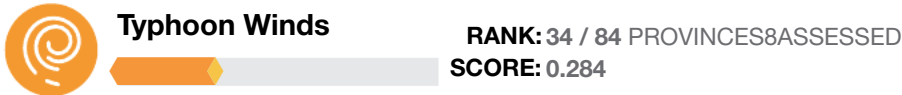
RANK: 68 / 84 PROVINCES ASSESSED
SCORE: 0



Drought

RANK: 54 / 84 PROVINCES ASSESSED
SCORE: 0.088

(HAZARD-SPECIFIC RISK CONTINUED)



MULTI-HAZARD RISK (MHR)

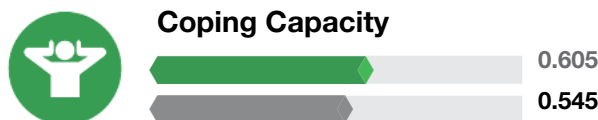
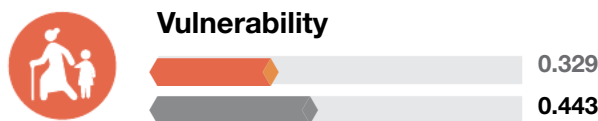
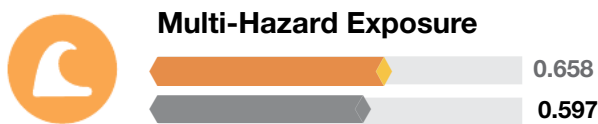
68 / 84
RANK WITHIN PROVINCES
Score: 0.461



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

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

PROVINCE SCORE
COUNTRY SCORE



BENGUET RECOMMENDATIONS

1

Clean Water Access Vulnerability

- In Benguet, only 66% of households have access to improved water sources, which is the 8th lowest in the Philippines. Focus on increasing clean water infrastructure especially in rural and remote areas to reduce health risks.
- Benguet’s population is highly exposed to typhoons, which can lead to contaminated surface water. The province is also vulnerable to environmental stresses, which can exacerbate hazard impacts. Invest in improved water and sanitation infrastructure to reduce the spread of waterborne illnesses and increase resilience.

2

Environmental Stress

- Continue to work toward increasing forest cover, decreasing barren land and practicing of sustainable agriculture. Focus efforts on protecting ground and surface water resources through enforcing pollution laws, decreasing illegal logging and reducing chemical usage for agriculture. Clean water access is limited in Benguet and deterioration of water sources will increase existing vulnerabilities.

3

Economic Capacity

- Benguet ranked 56th out of the 84 territories in economic capacity. Continue to encourage programs that diversify the economy in Benguet to generate public revenue and create new job opportunities.
- Pursue policies that balance inflation rates and create equal opportunities for employment.

4

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.
- In Benguet Wildfires expose 78.6% of the capital stock and 56.1% of the population. Invest in increased fire stations and fire trucks to mitigate Wildfire impacts.
- 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.

**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