

THE PHILIPPINES

CAMARINES NORTE

NDPBA PROVINCE PROFILE



THE PHILIPPINES

CAMARINES NORTE

CAPITAL: DAET

Area: 2,278 km²

Camarines Norte located in the Bicol region and is the northernmost province. Camarines Norte borders Quezon province to west, the Philippines Sea to the north and Camarines Sur to the south. The topography of Camarines Norte ranges from mountainous to low laying plains. The coastline is flat with fertile lands, while the interior contains rolling hills and mountain landscapes. The population of Camarines Norte grew in a slower rate of 1.38% between 2010 and 2015 compared to the previous average annual rate of 1.44% between 2000 and 2010. Nearly the entire population live within earthquake and typhoon hazard zones. In 2020, Typhoon Ambo impacted Camarines Norte among other provinces and resulted in 3.5 million pesos of damage to the agricultural sector alone.



RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - High

Score: 0.515 • Rank: 32/84



RESILIENCE (R) - Low

Score: 0.528 • Rank: 61/84



MULTI-HAZARD EXPOSURE (MHE) - Medium

Score: 0.603 • Rank: 44/84



VULNERABILITY (V) - High

Score: 0.496 • Rank: 19/84



COPING CAPACITY (CC) - Medium

Score: 0.552 • Rank: 45/84

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



Population (2018)

593,544



Population in Poverty

22.4%



Literate population

99.3%



Access to improved water

80.6%



Average life expectancy

67.8 years

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MULTI-HAZARD EXPOSURE (MHE)

RANK: 44 / 84 PROVINCES

SCORE: 0.603



MHE 0.603

Raw MHE 0.559

Relative MHE 0.646

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

93%

\$ 551,050

\$2.6 Billion





Flood

58%

345,685

\$2.2 Billion



Landslide

8%

46.688

\$85.8 Million



Drought



Storm Surge

23%

4 136,591

\$422.3 Million



Tsunami

1%

4 7,825

\$16.4 Million



Liquefacton

30%

176,109

\$1.6 Billion



Volcano

<1%

1,424

\$7.2 Million



Wildfire

<1%

2,847

\$7.3 Million



Typhoon Winds

100%

591,957

\$2.7 Billion



VULNERABILITY (V)

RANK: 19 / 84 PROVINCES ASSESSED

SCORE: 0.496

Vulnerability in Camarines Norte is primarily driven by Economic Constraints and Vulnerable Health Status. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

SCORE: 0.402 RANK: 56/84 PROVINCES ASSESSED

0.74 Livestock density

28.91 Barren land (per 10k hectares)

2.68% Forest cover change



Vulnerable Health Status

SCORE: 0.563 **RANK: 12/84 PROVINCES ASSESSED**

9.6% Malnutrition among children (0 to 5 years old) 7.81 Infant mortality rate (per 1k live births)

67.84 160.46 Maternal Life expectancy mortality rate (per 100k live

Disability (per 100k persons)

463

42.4

Tuberculosis mortality rate (per 100k persons)

0.2 HIV mortality rate (per 100k

persons)

5.4 Intestinal disease mortality rate (per 100k persons)

births)

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



Clean Water Vulnerability



SCORE: 0.541

RANK: 20/84 PROVINCES ASSESSED

80.6% Households with improved safe water source

85.7% Households with sanitary toilet facility



220

Information Access Vulnerability

1 SCORE: 0.411

RANK: 54/84 PROVINCES ASSESSED

99.29% Literacy rate

older)

(age 10 and school enrollment rate

120.52% 3.05% Gross primary

59.85% Internet Access

Households with radio

62.28% Households with television

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Economic Constraints

0.69 22.41%

Economic Poverty dependency incidence ratio

1 SCORE: 0.587 RANK: 18/84 PROVINCES ASSESSED

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Gender Inequality

0 1

1.09

Female to male secondary school enrollment Rate

0.42

Labor force participation ratio

SCORE: 0.53 RANK: 23/84 PROVINCES ASSESSED

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Population Pressures

1 SCORE: 0.435 RANK

RANK: 31/84 PROVINCES ASSESSED

1.38Population growth rate (2010-2015)

Average annual urban population growth rate

10.06

Informal settlers

2.0%



COPING CAPACITY (CC)

participation rate

100k persons)

RANK: 45 / 84 PROVINCES ASSESSED

SCORE: 0.552

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



Economic Capacity

0.89 60,32%

1 SCORE: 0.501 RANK: 43/84 PROVINCES ASSESSED

60.32% 1793.15 Labor force Local governing

Local government annual regular income per capita (Philippine Peso)



Governance

Purchasing power of

the peso

84.6% 10.86
Voter participation Organized violence (per

SCORE: 0.629 RANK: 45/84 PROVINCES ASSESSED

22.78%

Garbage pickup



Environmental Capacity

13.39Protected areas (per 1k ha)

1.1%

areas Forest reserves

1 SCORE: 0.294 RANK: 59/84 PROVINCES ASSESSED

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Infrastructure Capacity

SCORE: 0.613 RANK: 24/84 PROVINCES ASSESSED



Health Care Capacity SCORE: 0.576 RANK: 22/84 PROVINCES ASSESSED

6.93 1.85 78.57% 5.05

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

Transportation Capacity SCORE: 0.544 **RANK: 34/84 PROVINCES ASSESSED**

0.79 14.03

Road density Average distance to nearest port (km)

Communications Capacity

SCORE: 0.727 RANK: 34/84 PROVINCES ASSESSED

2.7% 96.5% Households with a landline Mobile coverage

> **Energy Capacity SCORE: 0.661 RANK: 37/84 PROVINCES ASSESSED**

79.6% 19.3%

Households with gas Households with electricity

> **Emergency Services Capacity** SCORE: 0.557 RANK: 25/84 PROVINCES ASSESSED

1.67 3.17 89.94

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



RESILIENCE (R)

Drought

RANK: 61 / 84 PROVINCES ASSESSED

SCORE: 0.528

Camarines Norte's score and ranking are due to High Vulnerability combined with Medium Coping Capacity scores.

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



Constraints





Vulnerable Health



Economic Capacity



Transportation Capacity



HAZARD-SPECIFIC RISK (HSR)

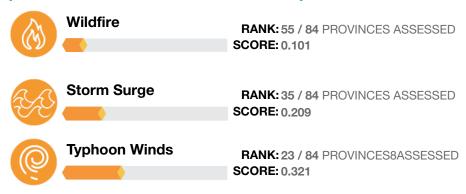
-Wh	Earthquake	RANK: 36 / 84 PROVINCES ASSESSED SCORE: 0.278
CG.	Tsunami	RANK: 15 / 84 PROVINCES ASSESSED SCORE: 0.147
	Flood	RANK: 21 / 84 PROVINCES ASSESSED SCORE: 0.258
	Liquefaction	RANK: 39 / 84 PROVINCES ASSESSED SCORE: 0.196
MÈ	Landslide	RANK: 62 / 84 PROVINCES ASSESSED SCORE: 0.160
\rightarrow \frac{\rightarrow}{2}	Volcano	RANK: 43 / 84 PROVINCES ASSESSED SCORE: 0.105

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SCORE: 0.000

RANK: 58 / 84 PROVINCES ASSESSED

(HAZARD-SPECIFIC RISK CONTINUED)





MULTI-HAZARD RISK (MHR)

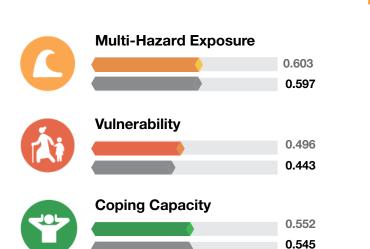
32 / 84

RANK WITHIN PROVINCES

Score: 0.515

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

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





CAMARINES NORTE RECOMMENDATIONS

1

Economic Constraints

- In Camarines Norte, economic constraints are a major driver of vulnerability. Continue to work
 with local stakeholders and diverse partners to stimulate economic growth. Expand public
 assistance where possible to increase the availability of resources and options for low income
 individuals.
- Focus efforts on promoting industries that create gainful work, to prevent outmigration of the working age population. Invest in small and local businesses, especially in rural and remote areas.

2

Vulnerable Health Status

- Continue efforts to increase the health and well-being of the population in Camarines Norte. In
 particular, focus on decreasing maternal mortality rates. Camarines Norte is ranked as the 6th
 highest for maternal mortality in Philippines, with a rate of 161 deaths per 100,000 live births.
 Invest in health care infrastructure and trained staff to provide prenatal and postnatal care for
 mothers, especially in rural communities.
- 3
- Expand partnerships to increase economic development and resources in Camarines Norte
 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.

Economic Capacity

- In Camarines Norte, the labor force participation rate is 60.3%, which highlights the need to
 expand employment opportunities. The province is also vulnerable due to the high poverty rates
 and the size of the working population. Expand partnerships to bring in funds and capacity
 building projects. Focus those efforts on public assistance programs to reduce the number of
 working poor individuals and invest in small local businesses.
- Continue to encourage programs that diversify the economy in Camarines Norte to generate
 public revenue and create new job opportunities. Pursue policies that balance inflation rates and
 create equal opportunities for employment.

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Transportation Capacity

- With economic resources and transportation capacity being limited in Camarines Norte, focus should be on expanding private-public partnerships to support seaport, airport and road enhancement projects. Strongly advocate for transportation network projects through the Department of Public Works to increase evacuation and resource distribution routes, increase access to markets and enhance social connectivity.
- Civil planners should work with risk assessors to establish resilient transportation network plans. Incorporating environmental mitigation plans, equitable access for the population and hazard exposures.
- Ensure that emergency evacuation routes and plans include all transportation projects.
 Work with partners including HOTOSM and others to ensure mapping of new routes and resources are readily available in the event of a disaster.



Better solutions. Fewer disasters.

Safer World.

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