



THE PHILIPPINES

SURIGAO DEL NORTE

NDPBA PROVINCE PROFILE

THE PHILIPPINES

SURIGAO DEL NORTE

CAPITAL: CITY OF SURIGAO

Area: 1,953 km²

Surigao del Norte is a province in the Philippines located in the Caraga region in Mindanao. The province comprises two major islands—Siargao and Bucas Grande—in the Philippine Sea, plus a small area at the northeastern tip of mainland Mindanao and other surrounding islands and islets. This mainland portion borders Agusan del Norte, and Surigao del Sur to the south. Surigao del Norte is the second northernmost of the Mindanao provinces and is an important transportation hub between Visayas and Mindanao. Numerous ferries cross the Surigao Strait between Surigao and the island of Leyte carrying vehicles and passengers between Liloan in Southern Leyte and Surigao City. The province is located at the rim of the Asian continental shelf.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Medium

Score: 0.501 • Rank: 43/84



RESILIENCE (R) - Low

Score: 0.55 • Rank: 51/84



MULTI-HAZARD EXPOSURE (MHE) - Medium

Score: 0.605 • Rank: 44/84



VULNERABILITY (V) - High

Score: 0.492 • Rank: 20/84



COPING CAPACITY (CC) - High

Score: 0.593 • Rank: 24/84



Population (2018)

463,665



Population in Poverty

27.4%



Literate population

98.9%



Access to improved water

99.3%



Average life expectancy

66.2 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 44 / 84 PROVINCES
SCORE: 0.605



MHE
0.605

Raw MHE
0.582

Relative MHE
0.628

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

67%

311,803
\$3.1 Billion



Tsunami

6%

28,845
\$117.3 Million



Flood

61%

284,219
\$2.9 Billion



Liquefaction

46%

211,763
\$2.3 Billion



Landslide

8%

38,221
\$466.6 Million



Volcano

<1%

1,120
\$9.9 Million



Drought

-
-
-



Wildfire

-
-
-



Storm Surge

40%

183,854
\$1 Billion



Typhoon Winds

100%

462,408
\$4.5 Billion




VULNERABILITY (V)

RANK: 20 / 84 PROVINCES ASSESSED
SCORE: 0.492

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



Environmental Stress

0  1 **SCORE: 0.533** **RANK: 28/84** PROVINCES ASSESSED

0.93 Livestock density
157.3 Barren land (per 10k hectares)
2.23% Forest cover change



Vulnerable Health Status

0  1 **SCORE: 0.73** **RANK: 1/84** PROVINCES ASSESSED

12.3% Malnutrition among children (0 to 5 years old)
3.31 Infant mortality rate (per 1k live births)
23.65 Maternal mortality rate (per 100k live births)
66.17 Life expectancy
856 Disability (per 100k persons)

35 Tuberculosis mortality rate (per 100k persons)
0.6 HIV mortality rate (per 100k persons)
6.9 Intestinal disease mortality rate (per 100k persons)
3.3 Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



Clean Water Vulnerability

0  1 **SCORE: 0.215** **RANK: 76/84** PROVINCES ASSESSED

99.3% Households with improved safe water source
88.5% Households with sanitary toilet facility




Information Access Vulnerability

0  1 **SCORE: 0.476** **RANK: 40/84** PROVINCES ASSESSED

98.85% Literacy rate (age 10 and older)
120.22% Gross primary school enrollment rate
3.64% Internet Access
46.01% Households with radio
61.37% Households with television



Economic Constraints

0  1 **SCORE: 0.557** **RANK: 21/84** PROVINCES ASSESSED

0.62
Economic
dependency
ratio

27.40%
Poverty
incidence



Gender Inequality


0  1 **SCORE: 0.482** **RANK: 35/84** PROVINCES ASSESSED

1.06
Female to male
secondary school
enrollment Rate

0.41
Labor force
participation ratio



Population Pressures

0  1 **SCORE: 0.45** **RANK: 27/84** PROVINCES ASSESSED

1.76
Population
growth rate
(2010-2015)

5.8
Average annual
urban population
growth rate

2.2%
Informal settlers




COPING CAPACITY (CC)

RANK: 24 / 84 PROVINCES ASSESSED
SCORE: 0.593

Surigao del Norte exhibits weaker Coping Capacity in the areas of Transportation 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: 0.488** **RANK: 50/84 PROVINCES ASSESSED**

0.9

Purchasing power of the peso

55.65%


Labor force participation rate

2039.91

Local government annual regular income per capita (Philippine Peso)



Governance

0  1 **SCORE: 0.707** **RANK: 20/84 PROVINCES ASSESSED**

85.8%

Voter participation

7.65


Organized violence (per 100k persons)

26.86%

Garbage pickup



Environmental Capacity

0  1 **SCORE: 0.48** **RANK: 27/84 PROVINCES ASSESSED**

3.06

Protected areas (per 1k ha)

28.7%

Forest reserves



Infrastructure Capacity

0 1 **SCORE: 0.621** **RANK: 22/84** PROVINCES ASSESSED



Health Care Capacity **SCORE: 0.478** **RANK: 47/84** PROVINCES ASSESSED

4.92	2.27	73.06%	8.6
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



Transportation Capacity **SCORE: 0.476** **RANK: 44/84** PROVINCES ASSESSED

0.85	22.21
Road density (km per sq. km)	Average distance to nearest port (km)



Communications Capacity **SCORE: 0.723** **RANK: 35/84** PROVINCES ASSESSED

2.9%	95.5%
Households with a landline	Mobile coverage



Energy Capacity **SCORE: 0.718** **RANK: 25/84** PROVINCES ASSESSED

86.8%	18.6%
Households with electricity	Households with gas



Emergency Services Capacity **SCORE: 0.681** **RANK: 17/84** PROVINCES ASSESSED

46.25	3.39	4.39
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



RESILIENCE (R)

RANK: 51 / 84 PROVINCES ASSESSED
SCORE: 0.55

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

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



Vulnerable Health Status



Economic Constraints



Transportation Capacity



Economic Capacity



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 73 / 84 PROVINCES ASSESSED
SCORE: 0.149



Tsunami

RANK: 10 / 84 PROVINCES ASSESSED
SCORE: 0.225



Flood

RANK: 27 / 84 PROVINCES ASSESSED
SCORE: 0.235



Liquefaction

RANK: 37 / 84 PROVINCES ASSESSED
SCORE: 0.208



Landslide

RANK: 45 / 84 PROVINCES ASSESSED
SCORE: 0.206



Volcano

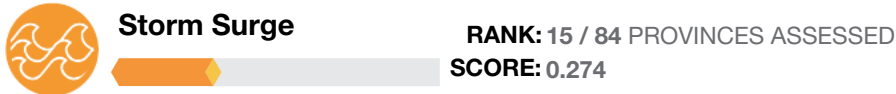
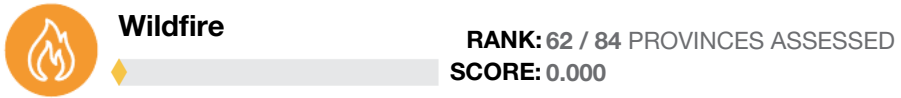
RANK: 45 / 84 PROVINCES ASSESSED
SCORE: 0.102



Drought

RANK: 58 / 84 PROVINCES ASSESSED
SCORE: 0.000

(HAZARD-SPECIFIC RISK CONTINUED)



MULTI-HAZARD RISK (MHR)

44 / 84

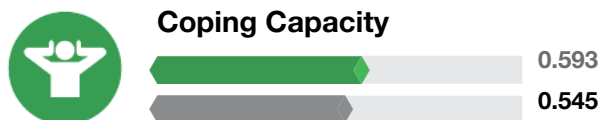
RANK WITHIN PROVINCES
Score: 0.501



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

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

PROVINCE SCORE
COUNTRY SCORE



SURIGAO DEL NORTE RECOMMENDATIONS

1

Vulnerable Health Status

- Findings show that Surigao del Norte is ranked highest in the Philippines for vulnerable health status. Additionally, infectious disease mortality in Surigao del Norte is also the highest in country. Increase public screenings, as well as treatment resources to reduce transmission and mortality rates.
- Expand partnerships and engagements to allocate resources for increased health care infrastructure in Surigao del Norte. Ensure health care is financially and physically accessible, as well as equipped to be able to accommodate patients with various health conditions.

2

Economic Constraints

- In Surigao del 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.

3

Transportation Capacity

- Continue seaport, airport and road enhancement projects through private-public partnerships. 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.

4

Economic Capacity

- The labor force participation rate in Surigao del Norte 55.7%, which is the 9th lowest in the Philippines. Focus efforts on expanding the labor market through investments in businesses that will create gainful work.
- Continue to encourage programs that diversify the economy in Surigao del Norte to generate public revenue. Pursue policies that balance inflation rates and create equal opportunities for employment.

**Better solutions.
Fewer disasters.**

Safer world.

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