



THE PHILIPPINES

ILOCOS SUR

NDPBA PROVINCE PROFILE

THE PHILIPPINES

ILOCOS SUR

CAPITAL: CITY OF VIGAN

Area: 2,596 km²

Ilocos Sur is a province in the Philippines located in the Ilocos Region in Luzon and is located on the mouth of the Mestizo River. Ilocos Sur is bordered by Ilocos Norte and Abra to the north, Mountain Province to the east, La Union and Benguet to the south and the South China Sea to the west. It is home to two UNESCO World Heritage Sites, namely, the Heritage City of Vigan and the Baroque Church of Santa Maria. The economy is largely agricultural however a large portion of the land in this province is not suitable for farming forcing the transition to manufacturing and trade.



RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Very Low
Score: 0.456 • Rank: 71/84



RESILIENCE (R) - Very High
Score: 0.662 • Rank: 7/84



MULTI-HAZARD EXPOSURE (MHE) - High
Score: 0.694 • Rank: 25/84



VULNERABILITY (V) - Very Low
Score: 0.343 • Rank: 71/84



COPING CAPACITY (CC) - Very High
Score: 0.668 • Rank: 3/84



Population (2018)
695,965



Population in Poverty
5.4%



Literate population
99.1%



Access to improved water
98.1%



Average life expectancy
69.7 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 25 / 84 PROVINCES
SCORE: 0.694



MHE
0.694

Raw MHE
0.624

Relative MHE
0.764

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

94%

657,276
\$3.5 Billion



Tsunami

4%

27,226
\$59.3 Million



Flood

51%

357,295
\$2.3 Billion



Liquefaction

78%

545,463
\$3.2 Billion



Landslide

12%

85,180
\$217.3 Million



Volcano

-
-
-



Drought

-
-
-



Wildfire

4%

27,501
\$92.9 Million



Storm Surge

29%

198,424
\$1.3 Billion



Typhoon Winds

100%

695,732
\$3.6 Billion




VULNERABILITY (V)

RANK: 71 / 84 PROVINCES ASSESSED
SCORE: 0.343

Vulnerability in Ilocos Sur is primarily driven by Environmental Stress and Population Pressures. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

0  1 **SCORE: 0.586** **RANK: 22/84 PROVINCES ASSESSED**

4.39 Livestock density
102.07 Barren land (per 10k hectares)
5.10% Forest cover change



Vulnerable Health Status

0  1 **SCORE: 0.358** **RANK: 68/84 PROVINCES ASSESSED**

7.9% Malnutrition among children (0 to 5 years old)
1.93 Infant mortality rate (per 1k live births)
10.72 Maternal mortality rate (per 100k live births)
69.67 Life expectancy
301 Disability (per 100k persons)

16.4 Tuberculosis mortality rate (per 100k persons)
0.5 HIV mortality rate (per 100k persons)
3.1 Intestinal disease mortality rate (per 100k persons)
1.9 Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



Clean Water Vulnerability

0  1 **SCORE: 0.215** **RANK: 75/84 PROVINCES ASSESSED**

98.1% Households with improved safe water source
92.3% Households with sanitary toilet facility



Information Access Vulnerability

0  1 **SCORE: 0.334** **RANK: 70/84 PROVINCES ASSESSED**

99.10% Literacy rate (age 10 and older)
107.35% Gross primary school enrollment rate
6.10% Internet Access
77.52% Households with radio
80.27% Households with television



Economic Constraints



SCORE: 0.19

RANK: 73/84 PROVINCES ASSESSED

0.56
Economic
dependency
ratio

5.38%
Poverty
incidence



Gender Inequality



SCORE: 0.346

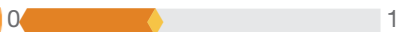
RANK: 62/84 PROVINCES ASSESSED

1.05
Female to male
secondary school
enrollment Rate

0.52
Labor force
participation ratio



Population Pressures



SCORE: 0.373

RANK: 56/84 PROVINCES ASSESSED

0.88
Population
growth rate
(2010-2015)

28.46
Average annual
urban population
growth rate

0.4%
Informal settlers




COPING CAPACITY (CC)

RANK: 3 / 84 PROVINCES ASSESSED
SCORE: 0.668

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



Economic Capacity

0  1 **SCORE: 0.726** **RANK: 9/84 PROVINCES ASSESSED**

0.92

Purchasing power of the peso

63.13%


Labor force participation rate

4726.55

Local government annual regular income per capita (Philippine Peso)



Governance

0  1 **SCORE: 0.651** **RANK: 39/84 PROVINCES ASSESSED**

86.9%

Voter participation

11.33

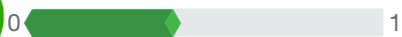
Organized violence (per 100k persons)

18.22%

Garbage pickup



Environmental Capacity

0  1 **SCORE: 0.41** **RANK: 36/84 PROVINCES ASSESSED**

6.57

Protected areas (per 1k ha)

8.9%

Forest reserves



Infrastructure Capacity

0 1 **SCORE: 0.712** **RANK: 5/84** PROVINCES ASSESSED



Health Care Capacity **SCORE: 0.624** **RANK: 14/84** PROVINCES ASSESSED

9.55	5.29	60.20%	6.24
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



Transportation Capacity **SCORE: 0.49** **RANK: 43/84** PROVINCES ASSESSED

1.01	23.62
Road density (km per sq. km)	Average distance to nearest port (km)



Communications Capacity **SCORE: 0.781** **RANK: 26/84** PROVINCES ASSESSED

4.1%	97.3%
Households with a landline	Mobile coverage



Energy Capacity **SCORE: 0.872** **RANK: 14/84** PROVINCES ASSESSED

93.9%	38.5%
Households with electricity	Households with gas



Emergency Services Capacity **SCORE: 0.732** **RANK: 11/84** PROVINCES ASSESSED

42.66	3.85	5.14
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



RESILIENCE (R)

RANK: 7 / 84 PROVINCES ASSESSED
SCORE: 0.662

Ilocos Sur'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



Population Pressures



Transportation Capacity



Governance



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 63 / 84 PROVINCES ASSESSED
SCORE: 0.214



Tsunami

RANK: 16 / 84 PROVINCES ASSESSED
SCORE: 0.146



Flood

RANK: 48 / 84 PROVINCES ASSESSED
SCORE: 0.165



Liquefaction

RANK: 21 / 84 PROVINCES ASSESSED
SCORE: 0.237



Landslide

RANK: 64 / 84 PROVINCES ASSESSED
SCORE: 0.152



Volcano

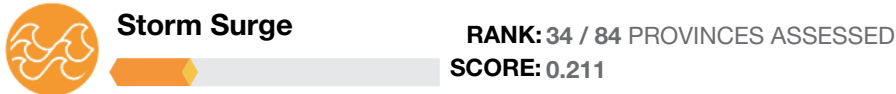
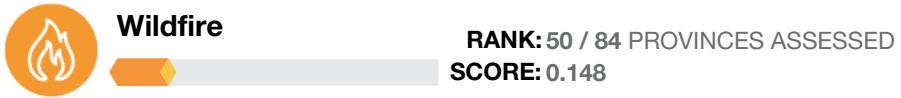
RANK: 68 / 84 PROVINCES ASSESSED
SCORE: 0



Drought

RANK: 58 / 84 PROVINCES ASSESSED
SCORE: 0.000

(HAZARD-SPECIFIC RISK CONTINUED)



MULTI-HAZARD RISK (MHR)

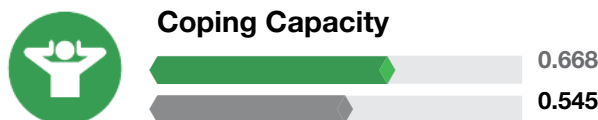
71 / 84
RANK WITHIN PROVINCES
Score: 0.456



Ilocos Sur'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



ILOCOS SUR RECOMMENDATIONS

1

Environmental Stress

- In Ilocos Sur, environmental stress is a major driver of vulnerability. Focus efforts on increasing forest cover, decreasing barren land and practicing of sustainable agriculture.
- Population pressures are another major driver of vulnerability in Ilocos Sur. Promoting sustainable agriculture and protection of natural areas will ensure resources can keep up with increasing demands as the population grows.

2

Population Pressures

- Continue to monitor the growth of the population and plan resource allocation appropriately. Work with diverse partners to help stimulate the economy to support increased public demands. Ensure equitable distribution of resources and services.
- Environmental stress is already leading to vulnerabilities in Ilocos Sur. Enforce building codes and environmental protection laws to ensure expansion is sustainable. Also, focus efforts on bringing in funds and innovations for enhancing the built environment.

3

Transportation Capacity

- Continue 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

Governance

- In Ilocos Sur, continue to work with local and international partners to achieve good governance related goals. Focus efforts on reducing civil unrest and violent incidents to bring more stability to the province.
- Work toward expanding public services and utilities. Invest in transportation projects to increase connectivity and access to services, especially in rural communities. Ensure all projects assess environmental impacts and incorporate public feedback.

**Better solutions.
Fewer disasters.**

Safer world.

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