



**THE PHILIPPINES**

**SAMAR**

**NDPBA PROVINCE PROFILE**

# THE PHILIPPINES

## SAMAR

### CAPITAL: CITY OF CATBALOGAN

Area: 6,048 km<sup>2</sup>

Samar is the third largest island in the Philippines. Located in central Philippines, Eastern Visayas. The island is divided into three provinces: Samar, Northern Samar, and Eastern Samar. On the island of Samar is the Samar Island Natural Park. To the south of Samar is Leyte Gulf. Leyte Gulf opens out into the Philippines Sea.



## RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) - Very High**  
Score: 0.567 • Rank: 10/84



**RESILIENCE (R) - Very Low**  
Score: 0.46 • Rank: 75/84



**MULTI-HAZARD EXPOSURE (MHE) - Medium**  
Score: 0.622 • Rank: 42/84



**VULNERABILITY (V) - Very High**  
Score: 0.53 • Rank: 14/84



**COPING CAPACITY (CC) - Very Low**  
Score: 0.449 • Rank: 74/84



Population (2018)  
**740,131**



Population in Poverty  
**22.1%**



Literate population  
**95.6%**



Access to improved water  
**64.8%**



Average life expectancy  
**67.9 years**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 43 / 84 PROVINCES  
SCORE: 0.622



MHE  
0.622

Raw MHE  
0.602

Relative MHE  
0.641

### ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

**68%**

**501,950**  
**\$3.1 Billion**



Tsunami

**14%**

**101,922**  
**\$301 Million**



Flood

**46%**

**340,311**  
**\$1.8 Billion**



Liquefaction

**26%**

**192,242**  
**\$899.5 Million**



Landslide

**21%**

**157,081**  
**\$921.3 Million**



Volcano

**<1%**

**2,443**  
**\$11 Million**



Drought

**14%**

**102,190**  
**\$661.1 Million**



Wildfire

**4%**

**28,223**  
**\$168.6 Million**



Storm Surge

**34%**

**251,540**  
**\$631.2 Million**



Typhoon Winds

**100%**

**738,537**  
**\$3.6 Billion**



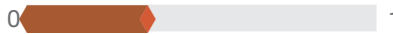
## VULNERABILITY (V)

**RANK: 14 / 84 PROVINCES ASSESSED**  
**SCORE: 0.53**

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



### Environmental Stress

0  1 **SCORE: 0.351** **RANK: 67/84 PROVINCES ASSESSED**

**0.84** Livestock density  
**1.87** Barren land (per 10k hectares)  
**-0.71%** Forest cover change



### Vulnerable Health Status

0  1 **SCORE: 0.447** **RANK: 40/84 PROVINCES ASSESSED**

**5.1%** Malnutrition among children (0 to 5 years old)  
**1.67** Infant mortality rate (per 1k live births)  
**27.84** Maternal mortality rate (per 100k live births)  
**67.87** Life expectancy  
**632** Disability (per 100k persons)

**16.9** Tuberculosis mortality rate (per 100k persons)  
**0** HIV mortality rate (per 100k persons)  
**5.9** Intestinal disease mortality rate (per 100k persons)  
**0.4** Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



### Clean Water Vulnerability

0  1 **SCORE: 0.727** **RANK: 9/84 PROVINCES ASSESSED**

**64.8%** Households with improved safe water source  
**70.3%** Households with sanitary toilet facility



### Information Access Vulnerability

0  1 **SCORE: 0.675** **RANK: 7/84 PROVINCES ASSESSED**

**95.58%** Literacy rate (age 10 and older)  
**117.11%** Gross primary school enrollment rate  
**2.26%** Internet Access  
**29.41%** Households with radio  
**48.96%** Households with television



### Economic Constraints



SCORE: 0.59

RANK: 17/84 PROVINCES ASSESSED

**0.7**

Economic  
dependency  
ratio

**22.10%**

Poverty  
incidence



### Gender Inequality



SCORE: 0.525

RANK: 24/84 PROVINCES ASSESSED

**1.1**

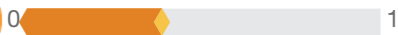
Female to male  
secondary school  
enrollment Rate

**0.45**

Labor force  
participation ratio



### Population Pressures



SCORE: 0.392

RANK: 47/84 PROVINCES ASSESSED

**1.19**

Population  
growth rate  
(2010-2015)

**9.2**

Average annual  
urban population  
growth rate

**1.8%**

Informal settlers



# COPING CAPACITY (CC)

**RANK: 74 / 84 PROVINCES ASSESSED**  
**SCORE: 0.449**

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



## Economic Capacity



**SCORE: 0.333** **RANK: 80/84 PROVINCES ASSESSED**

**0.82**

Purchasing power of the peso

**61.14%**

Labor force participation rate

**1639.65**

Local government annual regular income per capita (Philippine Peso)



## Governance



**SCORE: 0.668** **RANK: 31/84 PROVINCES ASSESSED**

**86.2%**

Voter participation

**6.57**

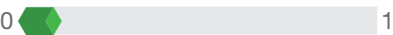
Organized violence (per 100k persons)

**13.57%**

Garbage pickup



## Environmental Capacity



**SCORE: 0.08** **RANK: 73/84 PROVINCES ASSESSED**

**1.56**

Protected areas (per 1k ha)

**0.1%**

Forest reserves



### Infrastructure Capacity

0 1 **SCORE: 0.468** **RANK: 63/84** PROVINCES ASSESSED



### Health Care Capacity **SCORE: 0.314** **RANK: 73/84** PROVINCES ASSESSED

<b>2.2</b> Hospital beds (per 10k people)	<b>0.39</b> Physicians per 10,000 people	<b>78.38%</b> Vaccination coverage	<b>12.28</b> Average distance to nearest hospital (km)
-------------------------------------------------	------------------------------------------------	------------------------------------------	--------------------------------------------------------------



### Transportation Capacity **SCORE: 0.281** **RANK: 77/84** PROVINCES ASSESSED

<b>0.46</b> Road density (km per sq. km)	<b>32.33</b> Average distance to nearest port (km)
------------------------------------------------	----------------------------------------------------------



### Communications Capacity **SCORE: 0.648** **RANK: 50/84** PROVINCES ASSESSED

<b>2.9%</b> Households with a landline	<b>89.6%</b> Mobile coverage
-------------------------------------------	---------------------------------



### Energy Capacity **SCORE: 0.601** **RANK: 48/84** PROVINCES ASSESSED

<b>78.4%</b> Households with electricity	<b>13.1%</b> Households with gas
---------------------------------------------	-------------------------------------



### Emergency Services Capacity **SCORE: 0.552** **RANK: 26/84** PROVINCES ASSESSED

<b>12.83</b> Evacuation centers (per 100k persons)	<b>2.63</b> Fire Stations (per 100k persons)	<b>4.14</b> Fire Trucks (per 100k persons)
----------------------------------------------------------	----------------------------------------------------	--------------------------------------------------



## RESILIENCE (R)

**RANK: 75 / 84 PROVINCES ASSESSED**  
**SCORE: 0.46**

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

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



**Clean Water Access Vulnerability**



**Information Access Vulnerability**



**Health Care Capacity**



**Transportation Capacity**



## HAZARD-SPECIFIC RISK (HSR)



**Earthquake**

**RANK: 58 / 84 PROVINCES ASSESSED**  
**SCORE: 0.227**



**Tsunami**

**RANK: 5 / 84 PROVINCES ASSESSED**  
**SCORE: 0.395**



**Flood**

**RANK: 29 / 84 PROVINCES ASSESSED**  
**SCORE: 0.231**



**Liquefaction**

**RANK: 48 / 84 PROVINCES ASSESSED**  
**SCORE: 0.164**



**Landslide**

**RANK: 6 / 84 PROVINCES ASSESSED**  
**SCORE: 0.366**



**Volcano**

**RANK: 29 / 84 PROVINCES ASSESSED**  
**SCORE: 0.133**

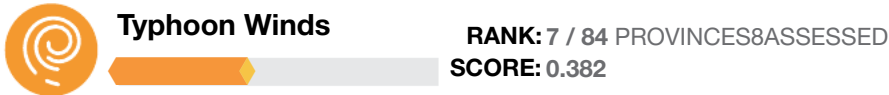
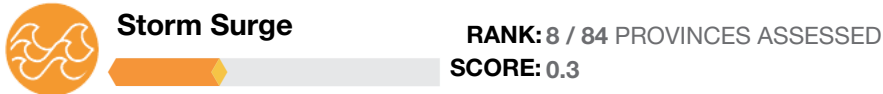
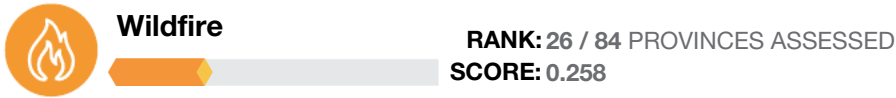


**Drought**

**RANK: 35 / 84 PROVINCES ASSESSED**  
**SCORE: 0.242**



**(HAZARD-SPECIFIC RISK CONTINUED)**



**MULTI-HAZARD RISK (MHR)**

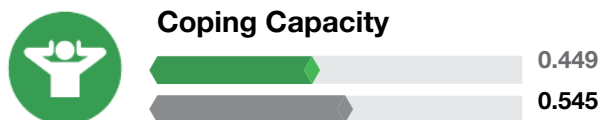
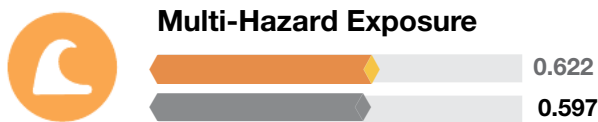
**10 / 84**  
RANK WITHIN PROVINCES  
Score: 0.567



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

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

PROVINCE SCORE  
COUNTRY SCORE



# SAMAR RECOMMENDATIONS

## 1

### Clean Water Access Vulnerability

- Focus efforts in Samar on improved water and sanitation infrastructure, as clean water access is a major driver of vulnerability.
- In Samar drought, flood and landslide hazards impact a large proportion of the population. Focus on increasing clean water infrastructure especially in rural and remote areas to reduce health risks.

## 2

### Information Access Vulnerability

- Samar is ranked the 7th highest province in the Philippines for access to information vulnerability. In Samar, only 29% of households have radios, the lowest in the Philippines. Work with private and public partners to see areas of collaboration that can enhance access to communication devices within households.
- Continue to promote education and basic literacy. With the COVID-19 pandemic impacting school capacities, work in rural and remote areas must consider resource needs.

## 3

### Health Care Capacity

- Continue to work with local and international partners to increase health care capacity. Invest in new and improved infrastructure, as well as the provision of medical supplies and increased skilled care personnel.
- Expand efforts to remove barriers to health care access, such as cost and distance. Importantly, ensure that all efforts reach rural and remote areas.

# 4

## Transportation Capacity

- Samar is ranked 77th out of the 84 territories in the Philippines for transportation capacity. Road density is 0.46 kilometers and the average distance between ports and populated places is 32.33 kilometers per square kilometer. Findings also show that Samar is ranked 10th highest for multi-hazard risk. 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.

**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**