



**THE PHILIPPINES** 

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# **DINAGAT ISLANDS**

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**NDPBA PROVINCE PROFILE**

# THE PHILIPPINES

## DINAGAT ISLANDS

### CAPITAL: SAN JOSE

Area: 817 km<sup>2</sup>

Dinagat Islands are a group of islands constituting a province in the Caraga region in the Philippines on the south side of Leyte Gulf. The province is one of the smallest provinces in the country. Tourism is popular in these islands due to rich natural resources and its caves, resorts, and beaches. The province is highly exposed to typhoon winds and the coastal areas are within storm surge hazards zones. In 2019, many storm warnings of heavy winds and rains were posted for the province, these included impacts from Typhoon Tisoy and Tropical Storm Ursula.



## RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) - Very Low**  
Score: 0.412 • Rank: 78/84



**RESILIENCE (R) - High**  
Score: 0.587 • Rank: 28/84



**MULTI-HAZARD EXPOSURE (MHE) - Very Low**  
Score: 0.409 • Rank: 74/84



**VULNERABILITY (V) - Medium**  
Score: 0.465 • Rank: 34/84



**COPING CAPACITY (CC) - Very High**  
Score: 0.638 • Rank: 10/84



Population (2018)  
**124,342**



Population in Poverty  
**26.6%**



Literate population  
**98.5%**



Access to improved water  
**97.4%**



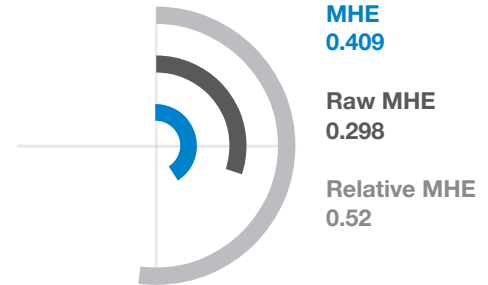
Average life expectancy  
**66.2 years**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 74 / 84 PROVINCES  
SCORE: 0.409



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



Earthquake

**69%**

86,324

\$797.1 Million



Tsunami

**2%**

2,009

\$9.5 Million



Flood

**28%**

34,815

\$337 Million



Liquefaction

**13%**

16,048

\$156.6 Million



Landslide

**17%**

20,685

\$193.8 Million



Volcano

**<1%**

375

\$2.8 Million



Drought

**2%**

2,046

\$192.6 Million



Wildfire

-

-

-



Storm Surge

**36%**

45,042

\$95.9 Million



Typhoon Winds

**99%**

123,407

\$925.7 Million




## VULNERABILITY (V)

**RANK: 34 / 84 PROVINCES ASSESSED**  
**SCORE: 0.465**

Vulnerability in Dinagat Islands is primarily driven by Vulnerable Health Status and Information Access Vulnerability. The bar chart indicates the socioeconomic themes contributing to the province's overall Vulnerability score.



### Environmental Stress

0  1 **SCORE: 0.44** **RANK: 51/84 PROVINCES ASSESSED**

**0.81** **55.12** **3.03%**  
 Livestock density Barren land (per 10k hectares) Forest cover change



### Vulnerable Health Status

0  1 **SCORE: 0.68** **RANK: 4/84 PROVINCES ASSESSED**

**—** **2.01** **201.21** **66.17** **951**  
 Malnutrition among children (0 to 5 years old) Infant mortality rate (per 1k live births) Maternal mortality rate (per 100k live births) Life expectancy Disability (per 100k persons)

**24.2** **0** **5.7** **0.7**  
 Tuberculosis mortality rate (per 100k persons) HIV mortality rate (per 100k persons) Intestinal disease mortality rate (per 100k persons) Other arthropod-borne viral fevers and viral hemorrhagic fever mortality rate (per 100k persons)



### Clean Water Vulnerability

0  1 **SCORE: 0.326** **RANK: 57/84 PROVINCES ASSESSED**

**97.4%** **86.7%**  
 Households with improved safe water source Households with sanitary toilet facility



### Information Access Vulnerability

0  1 **SCORE: 0.64** **RANK: 10/84 PROVINCES ASSESSED**

**98.54%** **106.00%** **1.17%** **46.85%** **45.43%**  
 Literacy rate (age 10 and older) Gross primary school enrollment rate Internet Access Households with radio Households with television



### Economic Constraints



SCORE: 0.599

RANK: 15/84 PROVINCES ASSESSED

**0.66**  
Economic  
dependency  
ratio

**26.63%**  
Poverty  
incidence



### Gender Inequality



SCORE: 0.407

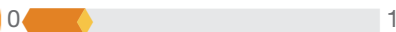
RANK: 49/84 PROVINCES ASSESSED

**1.03**  
Female to male  
secondary school  
enrollment Rate

**0.41**  
Labor force  
participation ratio



### Population Pressures



SCORE: 0.16

RANK: 82/84 PROVINCES ASSESSED

**0.05**  
Population  
growth rate  
(2010-2015)

**0.98**  
Average annual  
urban population  
growth rate

**1.5%**  
Informal settlers



## COPING CAPACITY (CC)

**RANK: 10 / 84 PROVINCES ASSESSED**  
**SCORE: 0.638**

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



### Economic Capacity

0 1 **SCORE: 0.793** **RANK: 5/84 PROVINCES ASSESSED**

— Purchasing power of the peso  
 — Labor force participation rate  
**4195.18** Local government annual regular income per capita (Philippine Peso)



### Governance

0 1 **SCORE: 0.724** **RANK: 15/84 PROVINCES ASSESSED**

**83.3%** Voter participation  
**0** Organized violence (per 100k persons)  
**20.06%** Garbage pickup



### Environmental Capacity

0 1 **SCORE: 0.538** **RANK: 17/84 PROVINCES ASSESSED**

**7.5** Protected areas (per 1k ha)  
**28.7%** Forest reserves



### Infrastructure Capacity

0 1 **SCORE: 0.431** **RANK: 68/84** PROVINCES ASSESSED



### Health Care Capacity **SCORE: 0.377** **RANK: 68/84** PROVINCES ASSESSED

<b>1.38</b>	<b>1.41</b>	<b>65.63%</b>	<b>5.75</b>
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



### Transportation Capacity **SCORE: 0.527** **RANK: 37/84** PROVINCES ASSESSED

<b>0.69</b>	<b>13.58</b>
Road density (km per sq. km)	Average distance to nearest port (km)



### Communications Capacity **SCORE: 0.168** **RANK: 80/84** PROVINCES ASSESSED

<b>0.4%</b>	<b>67.0%</b>
Households with a landline	Mobile coverage



### Energy Capacity **SCORE: 0.432** **RANK: 65/84** PROVINCES ASSESSED

<b>67.8%</b>	<b>7.1%</b>
Households with electricity	Households with gas



### Emergency Services Capacity **SCORE: 0.711** **RANK: 13/84** PROVINCES ASSESSED

<b>184.05</b>	<b>4.66</b>	<b>2.33</b>
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



## RESILIENCE (R)

**RANK: 28 / 84 PROVINCES ASSESSED**  
**SCORE: 0.587**

Dinagat Islands's score and ranking are due to Medium Vulnerability combined with Very High Coping Capacity scores.

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



**Vulnerable Health Status**



**Information Access Vulnerability**



**Communications Capacity**



**Health Care Capacity**



## HAZARD-SPECIFIC RISK (HSR)



**Earthquake**

**RANK: 74 / 84 PROVINCES ASSESSED**  
**SCORE: 0.139**



**Tsunami**

**RANK: 24 / 84 PROVINCES ASSESSED**  
**SCORE: 0.114**



**Flood**

**RANK: 62 / 84 PROVINCES ASSESSED**  
**SCORE: 0.096**



**Liquefaction**

**RANK: 73 / 84 PROVINCES ASSESSED**  
**SCORE: 0.062**



**Landslide**

**RANK: 52 / 84 PROVINCES ASSESSED**  
**SCORE: 0.196**



**Volcano**

**RANK: 56 / 84 PROVINCES ASSESSED**  
**SCORE: 0.071**

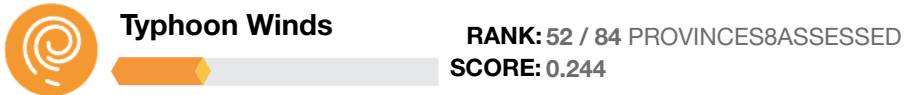
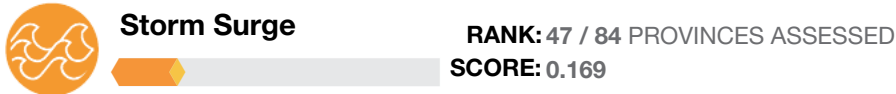
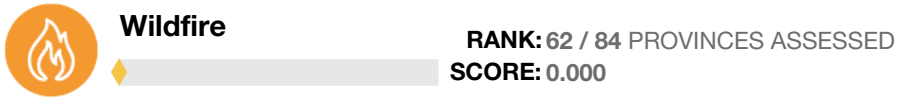


**Drought**

**RANK: 49 / 84 PROVINCES ASSESSED**  
**SCORE: 0.134**

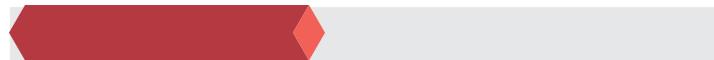


**(HAZARD-SPECIFIC RISK CONTINUED)**



**MULTI-HAZARD RISK (MHR)**

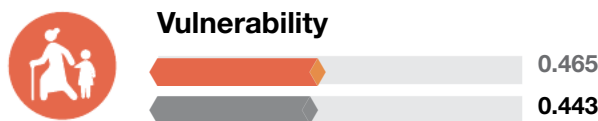
**78 / 84**  
RANK WITHIN PROVINCES  
Score: 0.412



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

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

PROVINCE SCORE  
COUNTRY SCORE



# DINAGAT ISLANDS RECOMMENDATIONS

1

## Vulnerable Health Status

- Dinagat Islands is ranked as the 4th highest province for vulnerable health status. The province has 951 persons with a disability per 100,000 population, which is the highest in the country. Maternal mortality rate is also elevated (201 deaths per 100,000 live births). Focus efforts on increasing access to health care and providing resources to disabled persons and mothers. These vulnerable populations need to be prioritized for disaster plans and resource allocation.
- Work with partners to bring in resources to expand health care infrastructure and medical staff members.

2

## Information Access Vulnerability

- Dinagat Islands is ranked 10th highest in the Philippines for information access vulnerability. Expand efforts to increase household access to communication devices and educational opportunities.
- Work with private and public partners to ensure communities are able to receive critical information and communicate their needs during a disaster. Continue to provide public information on what to do during disasters early and often.

3

## Communications Capacity

- Dinagat Islands ranked 5th for mobile phone coverage, with only 67% of barangays having cell signal in the Province. Additionally, less than 1% of households report having access to landlines. The population of Dinagat Islands is also highly exposed to typhoons, earthquakes and floods. Invest in communications infrastructure that is reinforced to withstand hazards and adds redundancy to the communication network.
- Findings show that the population in Dinagat Islands are also vulnerable due to limitations in access to information. Improvements to communications infrastructure should be paralleled by increased households' access to telecommunication devices. Expand private and public partnerships in the meantime to plan emergency communications.

# 4

## Health Care Capacity

- Findings show that health care capacity in Dinagat Islands ranked 72nd out of the 84 territories in the Philippines. Major investments and improvements are needed in Dinagat Islands to meet the current health care needs of the population.
- Dinagat Islands have the largest proportion of disabled persons and high maternal mortality rates. Continue to work with local and international partners to increase available funds and capacity for the health care sector. 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.

**Better solutions.  
Fewer disasters.**

# Safer world.

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