



THE PHILIPPINES

**ABRA**

**NDPBA PROVINCE PROFILE**

# THE PHILIPPINES

## ABRA

### CAPITAL: BANGUED

Area: 4,200 km<sup>2</sup>

Abra is a landlocked province located in the northern area of Luzon Island. It has mountains of the Ilocos Range in the west and the Cordillera Central in the east. It also has several significant rivers that run throughout. The population of Abra is a melting pot of people from dominant Spanish ancestry to Austronesian ethnicity. There are a variety of natural resources available in Abra including gold, raw cement materials and rock phosphate. The population in Abra is exposed to earthquake, flood, landslide, liquefaction, wild fire and typhoon hazards. Recent impacts include the devastating effects of typhoons Mankhut and Yutu which also triggered flooding and landslides. The impacts resulted in repeated displacements of the population in Abra and delayed assistance due to the limited ability to distribute resources.



## RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) - Very Low**  
Score: 0.442 • Rank: 75/84



**RESILIENCE (R) - High**  
Score: 0.603 • Rank: 19/84



**MULTI-HAZARD EXPOSURE (MHE) - Low**  
Score: 0.532 • Rank: 62/84



**VULNERABILITY (V) - Medium**  
Score: 0.431 • Rank: 45/84



**COPING CAPACITY (CC) - Very High**  
Score: 0.637 • Rank: 11/84



Population (2018)  
**238,088**



Population in Poverty  
**15.0%**



Literate population  
**98.7%**



Access to improved water  
**28.9%**



Average life expectancy  
**68.5 years**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 62 / 84 PROVINCES  
SCORE: 0.532



MHE  
0.532

Raw MHE  
0.417

Relative MHE  
0.646

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



Earthquake

**100%**

**238,088**

**\$1.3 Billion**



Tsunami

-

-

-



Flood

**51%**

**120,666**

**\$633.4 Million**



Liquefaction

**46%**

**108,973**

**\$786.5 Million**



Landslide

**22%**

**52,821**

**\$238.4 Million**



Volcano

-

-

-



Drought

-

-

**\$348,470**



Wildfire

**13%**

**31,521**

**\$157.6 Million**



Storm Surge

-

-

-



Typhoon Winds

**100%**

**238,088**

**\$1.3 Billion**




## VULNERABILITY (V)

**RANK: 45 / 84 PROVINCES ASSESSED**  
**SCORE: 0.431**

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



### Environmental Stress

0  1 **SCORE: 0.689** **RANK: 3/84 PROVINCES ASSESSED**

**4.77** **178.1** **2.38%**  
 Livestock density Barren land (per 10k hectares) Forest cover change



### Vulnerable Health Status

0  1 **SCORE: 0.467** **RANK: 32/84 PROVINCES ASSESSED**

**9.0%** **19.04** **59.51** **68.53** **423**  
 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)

**19.1** **0** **4.8** **1.2**  
 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: 0.639** **RANK: 13/84 PROVINCES ASSESSED**

**28.9%** **89.5%**  
 Households with improved safe water source Households with sanitary toilet facility



### Information Access Vulnerability

0  1 **SCORE: 0.467** **RANK: 43/84 PROVINCES ASSESSED**

**98.72%** **108.30%** **3.07%** **70.95%** **59.92%**  
 Literacy rate (age 10 and older) Gross primary school enrollment rate Internet Access Households with radio Households with television



### Economic Constraints



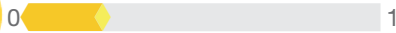
**SCORE: 0.392** **RANK: 45/84** PROVINCES ASSESSED

**0.62**  
Economic  
dependency  
ratio

**15.00%**  
Poverty  
incidence



### Gender Inequality



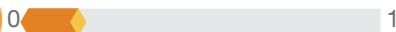
**SCORE: 0.215** **RANK: 80/84** PROVINCES ASSESSED

**1.01**  
Female to male  
secondary school  
enrollment Rate

**0.54**  
Labor force  
participation ratio



### Population Pressures



**SCORE: 0.145** **RANK: 83/84** PROVINCES ASSESSED

**0.52**  
Population  
growth rate  
(2010-2015)

**2.2**  
Average annual  
urban population  
growth rate

**0.5%**  
Informal settlers




## COPING CAPACITY (CC)

**RANK: 11 / 84 PROVINCES ASSESSED**  
**SCORE: 0.637**

Abra exhibits weaker Coping Capacity in the areas of Transportation 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: 0.811** **RANK: 4/84 PROVINCES ASSESSED**

**0.91**

Purchasing power of the peso

**71.84%**


Labor force participation rate

**5068.22**

Local government annual regular income per capita (Philippine Peso)



### Governance

0  1 **SCORE: 0.595** **RANK: 54/84 PROVINCES ASSESSED**

**89.1%**

Voter participation

**19.18**


Organized violence (per 100k persons)

**16.73%**

Garbage pickup



### Environmental Capacity

0  1 **SCORE: 0.496** **RANK: 24/84 PROVINCES ASSESSED**

**0.15**

Protected areas (per 1k ha)

**86.5%**

Forest reserves



### Infrastructure Capacity

0 1 **SCORE: 0.553** **RANK: 44/84** PROVINCES ASSESSED



### Health Care Capacity **SCORE: 0.429** **RANK: 58/84** PROVINCES ASSESSED

<b>7.79</b>	<b>2.79</b>	<b>54.69%</b>	<b>8.18</b>
Hopital beds (per 10k people)	Physicians per 10,000 people	Vaccination coverage	Average distance to nearest hospital (km)



### Transportation Capacity **SCORE: 0.165** **RANK: 83/84** PROVINCES ASSESSED

<b>0.30</b>	<b>37.13</b>
Road density (km per sq. km)	Average distance to nearest port (km)



### Communications Capacity **SCORE: 0.707** **RANK: 39/84** PROVINCES ASSESSED

<b>2.2%</b>	<b>96.7%</b>
Households with a landline	Mobile coverage



### Energy Capacity **SCORE: 0.681** **RANK: 30/84** PROVINCES ASSESSED

<b>79.3%</b>	<b>23.1%</b>
Households with electricity	Households with gas



### Emergency Services Capacity **SCORE: 0.783** **RANK: 8/84** PROVINCES ASSESSED

<b>109.94</b>	<b>4.51</b>	<b>4.51</b>
Evacuation centers (per 100k persons)	Fire Stations (per 100k persons)	Fire Trucks (per 100k persons)



## RESILIENCE (R)

**RANK: 19 / 84 PROVINCES ASSESSED**  
**SCORE: 0.603**

Abra'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:**



**Environmental Stress**



**Clean Water Access Vulnerability**



**Transportation Capacity**



**Health Care Capacity**



## HAZARD-SPECIFIC RISK (HSR)



**Earthquake**

**RANK: 55 / 84 PROVINCES ASSESSED**  
**SCORE: 0.233**



**Tsunami**

**RANK: 54 / 84 PROVINCES ASSESSED**  
**SCORE: 0**



**Flood**

**RANK: 53 / 84 PROVINCES ASSESSED**  
**SCORE: 0.142**



**Liquefaction**

**RANK: 47 / 84 PROVINCES ASSESSED**  
**SCORE: 0.165**



**Landslide**

**RANK: 44 / 84 PROVINCES ASSESSED**  
**SCORE: 0.207**



**Volcano**

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

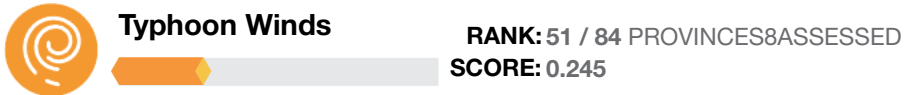
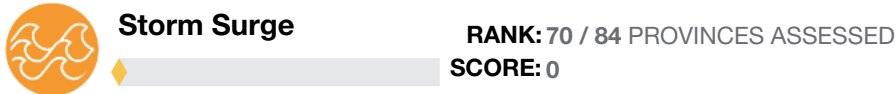
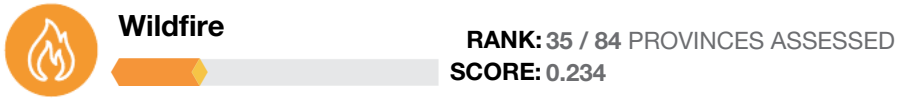


**Drought**

**RANK: 57 / 84 PROVINCES ASSESSED**  
**SCORE: 0.003**



**(HAZARD-SPECIFIC RISK CONTINUED)**



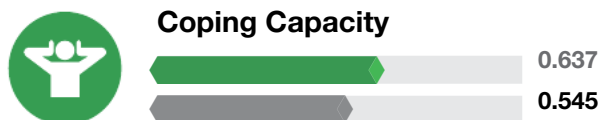
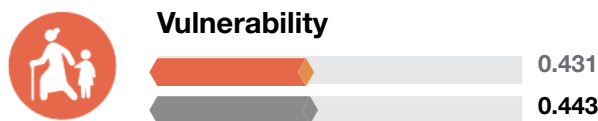
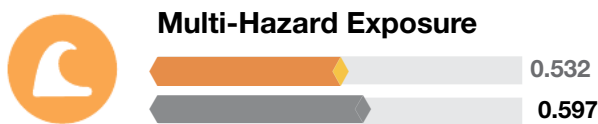
**MULTI-HAZARD RISK (MHR)**

**75 / 84**  
RANK WITHIN PROVINCES  
Score: 0.442

Abra's score and ranking are due to 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



# ABRA RECOMMENDATIONS

## 1

### Environmental Stress

- Findings show that in Abra nearly 51% of the population are exposed to flooding hazards and about 22% are exposed to landslides. To help mitigate disaster impacts, ensure reforestation efforts continue and are focused on high risk areas.
- Promote sustainable agriculture and livestock practices. Work with local farmers and global partners to bring about new opportunities, innovations and other enhancements to the agricultural sector. To increase resilience in Abra, ensure that construction projects incorporate holistic risk assessments with emphasis on environmental mitigation plans.

## 2

### Clean Water Access Vulnerability

- In Abra, only 29% of households have access to improved water sources, which is the lowest in the Philippines. Focus on increasing clean water infrastructure especially in rural and remote areas to reduce health risks.
- Abra's population is highly exposed to floods and landslides, which can lead to contaminated surface water. Invest in improved drinking water and sanitation infrastructure to reduce the spread of waterborne illnesses.

## 3

### Transportation Capacity

- Abra ranked lowest amongst the 84 territories in the Philippines for road density (0.3 kilometers per square kilometer). Since Abra is landlocked, roads are critical to the transportation network of the province. Continue to invest in road improvement and expansion projects, which will provide more evacuation routes and increased connectivity.
- 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

## Health Care Capacity

- Abra is ranked low compared to the rest of the Philippines, 74th out of 84 territories, in vaccination coverage. Only 54.7% of children are fully vaccinated, which could lead to outbreaks of otherwise preventable diseases. Expand efforts to remove barriers to health care access, such as cost and distance to increase utilization of services.
- 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.

**Better solutions.  
Fewer disasters.**

# Safer world.

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