



INDONESIA

# KALIMANTAN BARAT

NDPBA PROVINCE PROFILE

# KALIMANTAN BARAT

**CAPITAL: PONTIANAK**

Area: 147,307 km<sup>2</sup>



Kalimantan Barat (West Kalimantan) on the island of Borneo borders the Malaysian province of Sarawak and the Java Sea and is an ethnically and linguistically diverse region

with expansive natural resources. Historically, large wildland fires have impacted the region both economically and by reducing air quality. Countering increasing levels of drought influenced by periodic El Nino events and climate change is a key concern and may be challenging for the province given its high vulnerability and low coping capacity and disaster management capabilities.

## RISK AND VULNERABILITY COMPONENT SCORE



**MULTI-HAZARD RISK (MHR) - Low**

Score: 0.471 • Rank: 24/34



**RESILIENCE (R) - Low**

Score: 0.482 • Rank: 26/34



**MULTI-HAZARD EXPOSURE (MHE) - Very Low**

Score: 0.330 • Rank: 30/34



**VULNERABILITY (V) - High**

Score: 0.482 • Rank: 8/34



**COPING CAPACITY (CC) - Low**

Score: 0.440 • Rank: 23/34



**DISASTER MANAGEMENT CAPABILITIES (DMC) - Low**

Score: 0.488 • Rank: 24/34



Population (2020 Projected)

**5,134,800**



Population in Poverty

**7.3%**



Adult Literacy Rate

**93.2%**



Access to improved water

**77.1%**



Average life expectancy

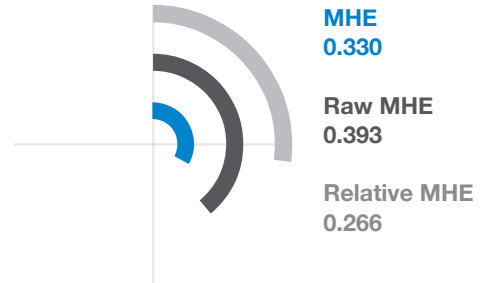
**70.6 years**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 30 / 34 PROVINCES  
SCORE: 0.330



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



Earthquake

**0%**

👤 -  
-



Tsunami

**0%**

👤 -  
-



Flood

**52%**

👤 2,543,846  
\$45.76 Billion



Flash Flood

**<1%**

👤 9,312  
\$64.3 Million



Landslide

**1%**

👤 35,468  
\$246.1 Million



Volcano

**0%**

👤 -  
-



Drought

**22%**

👤 1,088,066  
\$7.6 Billion



Wildfire

**12%**

👤 595,245  
\$3.9 Billion



Extreme Weather

**96%**

👤 4,673,872  
\$60.8 Billion



## VULNERABILITY (V)

**RANK: 8 / 34 PROVINCES ASSESSED**  
**SCORE: 0.482**

Vulnerability in Kalimantan Barat is primarily driven by Information Access Vulnerability and Clean Water Access Vulnerability. The bar charts indicate the socioeconomic themes contributing to the province's overall Vulnerability score.



### Environmental Stress

**SCORE: 0.325 RANK: 24/34 PROVINCES ASSESSED**

<b>4.3%</b>	<b>5.4</b>	<b>13157.8</b>
Land susceptible to severe erosion	Livestock Density (per sq km)	Net Deforestation (hectares per year)



### Vulnerable Health Status

**SCORE: 0.461 RANK: 14/34 PROVINCES ASSESSED**

<b>70.56</b>	<b>31</b>	<b>133.48</b>	<b>14.3%</b>	<b>8.3%</b>	<b>5.7%</b>	<b>31.2%</b>
Life expectancy (years)	Infant mortality rate (per 1,000 live births)	Maternal mortality ratio	Children (under 5) Wasting	Disability	Unmet health care needs	Households with limited access to health facility
<b>0.7%</b>	<b>61.92</b>	<b>2.44</b>	<b>0</b>	<b>147</b>	<b>53.88</b>	<b>0.08</b>
Households with catastrophic health expenditure	Dengue incidence per 100,000 population	Measles incidence per 100,000 population	Malaria incidence per 100,000 population	TB case notification per 100,000 population	HIV & AIDS incidence per 100,000 population	Prevalence of Leprosy per 10,000 population



### Clean Water Vulnerability

**SCORE: 0.637 RANK: 8/34 PROVINCES ASSESSED**

<b>77.1%</b>	<b>72.1%</b>
Households with improved water	Households with improved sanitation



### Information Access Vulnerability

**SCORE: 0.668 RANK: 5/34 PROVINCES ASSESSED**

<b>93.2%</b>	<b>97.1%</b>	<b>7.31</b>	<b>64.7%</b>
Adult literacy rate	Net primary school enrollment rate	Average years of schooling	Household using internet



### Economic Constraints

**SCORE: 0.337 RANK: 27/34 PROVINCES ASSESSED**

<b>4.5%</b>	<b>49.7</b>	<b>7.3%</b>	<b>0.327</b>
Unemployment rate	Age dependency ratio	Poverty rate	GINI ratio



### Gender Inequality

**SCORE: 0.578 RANK: 7/34 PROVINCES ASSESSED**

<b>0.94</b>	<b>0.62</b>	<b>1.03</b>	<b>10.8%</b>
Female to male literacy rate	Female to male labor ratio	Female to male secondary school enrollment ratio	Percent female seats in government



### Population Pressures

**SCORE: 0.367 RANK: 22/34 PROVINCES ASSESSED**

<b>1.6%</b>	<b>4.0%</b>
Average annual total population change	Average annual urban population change



## COPING CAPACITY (CC)

**RANK: 23 / 34 PROVINCES ASSESSED**  
**SCORE: 0.440**

Kalimantan Barat exhibits weaker Coping Capacity in the areas of Health Care Capacity and Transportation Capacity. The bar charts indicate the socioeconomic themes contributing to the province's overall Coping Capacity score.



### Economic Capacity

**SCORE: 0.317 RANK: 21/34 PROVINCES ASSESSED**

<b>68.3%</b> Labor force participation	<b>2,528,607</b> Average monthly income (IDR)	<b>27.9</b> GDP per capita (Million IDR)
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### Governance

**SCORE: 0.649 RANK: 13/34 PROVINCES ASSESSED**

<b>118</b> Crime rate per 100,000 population	<b>77.0%</b> Crime clearance rate	<b>82.2%</b> Voter participation
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### Environmental Capacity

**SCORE: 0.403 RANK: 16/34 PROVINCES ASSESSED**

**10.0%**  
Protected area



### Infrastructure Capacity

**SCORE: 0.365 RANK: 29/34 PROVINCES ASSESSED**



### Health Care Capacity SCORE: 0.243 RANK: 33/34 PROVINCES ASSESSED

<b>10.3</b> Hospital beds per 10,000 people	<b>1.59</b> Physicians per 10,000 people	<b>12.56</b> Nurses and midwives per 10,000 people	<b>45.4%</b> Time to public hospital (over 1 hour)	<b>42.2%</b> Immunization rate (children under 5)	<b>75.0%</b> Health care accreditation rate	<b>57.7%</b> Population covered by health insurance
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### Transportation Capacity SCORE: 0.257 RANK: 29/34 PROVINCES ASSESSED

<b>0.05</b> Road and rail density	<b>38.3</b> Average distance to port or airport
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### Communications Capacity SCORE: 0.540 RANK: 24/34 PROVINCES ASSESSED

<b>58.6%</b> Mobile phone ownership	<b>0.9%</b> Households with Fixed Phones
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### Energy Capacity SCORE: 0.420 RANK: 27/34 PROVINCES ASSESSED

<b>85.2%</b> Households served by state electricity	<b>0.3%</b> Percentage of total national electricity generated in province	<b>16.97</b> Electricity generation GWh per 100,000 Population	<b>80.1%</b> Households with gas for cooking
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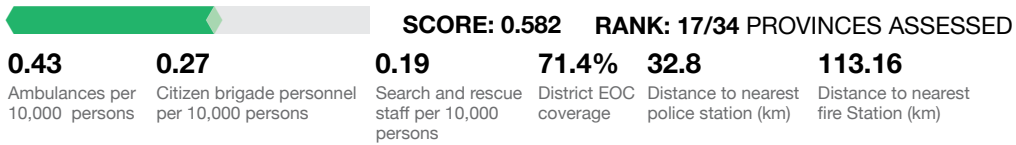
# DISASTER MANAGEMENT CAPABILITIES (DMC)

**RANK: 24 / 34 PROVINCES ASSESSED**  
**SCORE: 0.440**

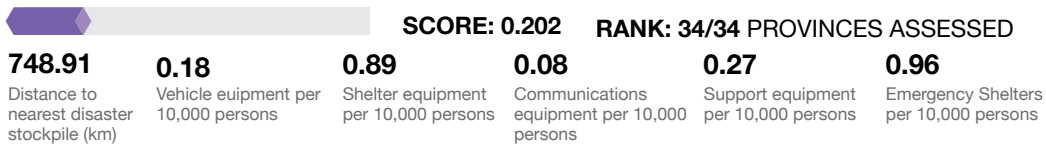
Kalimantan Barat exhibits weaker Disaster Management Capabilities in the areas of Mass Care Support and Emergency Services. The bar charts indicate the disaster management themes contributing to the province's overall Disaster Management Capabilities score.



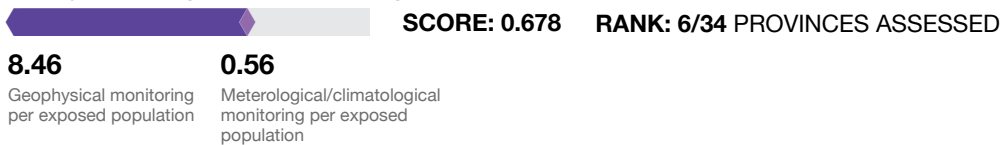
## Emergency Services



## Mass Care Support



## Early Warning and Monitoring





## RESILIENCE (R)

**RANK: 26 / 34 PROVINCES ASSESSED**  
**SCORE: 0.482**

Kalimantan Barat's Low Resilience score and ranking are due to High Vulnerability combined with Low Coping Capacity, and Low Disaster Management Capabilities scores.

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



**Information Access Vulnerability**



**Clean Water Access Vulnerability**



**Health Care Capacity**



**Transportation Capacity**



**Mass Care Support**



**Emergency Services**



## HAZARD-SPECIFIC RISK (HSR)



**Earthquake**

**RANK: 27 / 34 PROVINCES ASSESSED**  
**SCORE: 0.119**



**Tsunami**

**RANK: 28 / 34 PROVINCES ASSESSED**  
**SCORE: 0.119**



**Flood**

**RANK: 2 / 34 PROVINCES ASSESSED**  
**SCORE: 0.331**



**Flash Flood**

**RANK: 23 / 34 PROVINCES ASSESSED**  
**SCORE: 0.169**



**Landslide**

**RANK: 20 / 34 PROVINCES ASSESSED**  
**SCORE: 0.182**



**Volcano**

**RANK: 26 / 34 PROVINCES ASSESSED**  
**SCORE: 0.119**



**Drought**

**RANK: 21 / 34 PROVINCES ASSESSED**  
**SCORE: 0.205**



**Wildfire**

**RANK: 8 / 34 PROVINCES ASSESSED**  
**SCORE: 0.262**



**Extreme Weather**

**RANK: 4 / 34 PROVINCES ASSESSED**  
**SCORE: 0.322**



## MULTI-HAZARD RISK (MHR)

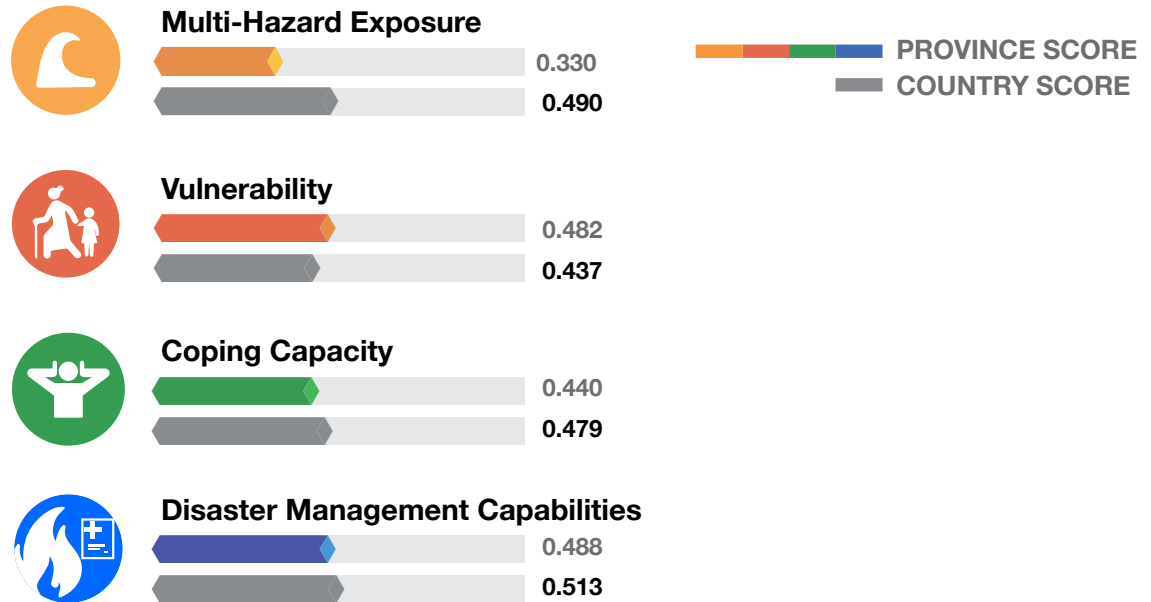
**24 / 34**

RANK WITHIN PROVINCES  
Score: 0.471



Kalimantan Barat's Low Multi-hazard Risk score and ranking are due to Very Low Multi-hazard exposure combined with High Vulnerability, Low Coping Capacity, and Low Disaster Management Capabilities scores.

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





# KALIMANTAN BARAT RECOMMENDATIONS

1

## Information Access Vulnerability

Kalimantan Barat ranks 5th for overall Information Access Vulnerability, with just 7.31 Average Years of Schooling and an Adult Literacy Rate of 93.21.

Continue partnership engagements with NGOs and stakeholders to implement programs focused on overcoming challenges in education service delivery and improving learning outcomes among students.

2

## Clean Water Access Vulnerability

Kalimantan Barat has the 8th highest Clean Water Access Vulnerability in the country, with 77% of households in the province having access to an Improved Water Source, and 72% of households having access to Improved Sanitation services. The province is also exposed to multiple hazards, including extreme weather (tornadoes), drought, wildfires, landslides, flooding and flash flooding. Flooding is one of the most prevalent hazards.

While Kalimantan has an abundant water supply, sedimentation in surface water often causes households and industries to consume more groundwater. Investments are needed to improve clean water infrastructure and management practices to improve treatment and service delivery, especially in rural and remote areas.

Strengthen and enforce regulations that protect watersheds and water sources from contamination and/or environmental degradation by factories, landfills, agricultural runoff, mining operations, etc.

# KALIMANTAN BARAT RECOMMENDATIONS

## 3

### Health Care Capacity

Findings show that Kalimantan Barat has the 2nd lowest Health Care Capacity in Indonesia with the 2nd fewest Physicians (1.59 per 10,000 persons). Nearly half of households (45.4%) must travel over an hour to reach the nearest public hospital. Moreover, over 40% of the population does not have Health Insurance.

Improve access to and quality of health care services in rural areas through expansion of infrastructure, equitable distribution of medical equipment and supplies, and incentives to increase the number of physicians serving remote areas.

Strengthen village-level programs focused on disease prevention and health promotion to counter preventable diseases through vaccination, and the growing number of non-communicable diseases in the country (e.g. diabetes and heart disease).

## 4

### Transportation Capacity

Kalimantan Barat has the 6th lowest Transportation Capacity in the country, with the 3rd lowest Road and Railway Density (0.05 per square km). Develop public/private partnerships to secure investments to expand road networks, particularly in underserved areas, to improve delivery of goods and services and facilitate disaster management response and relief operations.

# KALIMANTAN BARAT RECOMMENDATIONS

## 5

### Mass Care Support

Kalimantan Barat has the lowest Mass Care Support capabilities in the country. The nearest Disaster Stockpile is (on average) nearly 750 km away from populated areas. The province has less than one Emergency Shelter per 10,000 persons.

Limitations in transportation capacity hinder disaster response and recovery activities. Enhance logistical planning efforts to identify strategic locations for more accessible disaster stockpiles and emergency shelters and better meet the needs of a disaster affected population.

## 6

### Emergency Services

Kalimantan Barat ranks 17th for overall Emergency Services capabilities. While Citizen Brigade participation is relatively high by comparison to other provinces, capability enhancements in other areas such as access to police and fire stations, and coverage of emergency operations centers are needed.

As Transportation Capacity is increased in the province, identify strategic locations for development of new emergency service infrastructure to broaden reach and availability of services.

**Better solutions.  
Fewer disasters.**

# Safer world.

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