



**INDONESIA**

# **SUMATERA SELATAN**

**NDPBA PROVINCE PROFILE**

# SUMATERA SELATAN

**CAPITAL: PALEMBANG**

Area: 91,592 km<sup>2</sup>



Sumatera Selatan (South Sumatra) is a multi-ethnic and diverse region on Sumatra with an abundance of extractive and energy industries. Mountains and rivers characterize

the landscape and Palembang and environs have traditionally encountered fires and flooding, with excellent school-level DRR and localization efforts employed to raise awareness and further DRR. Although coping capacity and resilience levels are moderate across Sumatera Selatan, disaster management capabilities will need to be improved, along with clean water and sanitation services, information access, transportation infrastructure and economic capacities to further mitigate risk.

## RISK AND VULNERABILITY COMPONENT SCORE



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

Score: 0.483 • Rank: 20/34



**RESILIENCE (R) - Moderate**

Score: 0.511 • Rank: 18/34



**MULTI-HAZARD EXPOSURE (MHE) - Moderate**

Score: 0.466 • Rank: 17/34



**VULNERABILITY (V) - Very Low**

Score: 0.384 • Rank: 30/34



**COPING CAPACITY (CC) - Moderate**

Score: 0.483 • Rank: 17/34



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

Score: 0.436 • Rank: 29/34



Population (2020 Projected)

**8,567,900**



Population in Poverty

**12.6%**



Adult Literacy Rate

**98.8%**



Access to improved water

**80.4%**



Average life expectancy

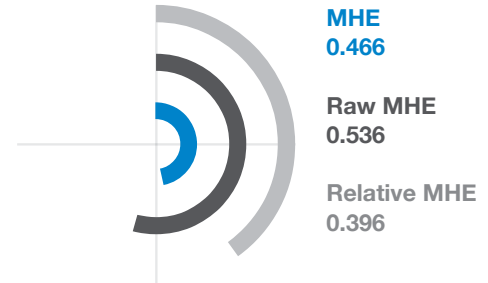
**69.7 years**

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



## MULTI-HAZARD EXPOSURE (MHE)

RANK: 17 / 34 PROVINCES  
SCORE: 0.466



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



Earthquake

**13%**

1,080,042  
\$10.9 Billion



Tsunami

**0%**

-  
-



Flood

**51%**

4,173,694  
\$44.6 Billion



Flash Flood

**3%**

227,656  
\$2.3 Billion



Landslide

**1%**

53,131  
\$524.9 Million



Volcano

**<1%**

6,708  
\$65.1 Billion



Drought

**40%**

3,284,848  
\$33.1 Billion



Wildfire

**16%**

1,309,848  
\$12.8 Billion



Extreme Weather

**98%**

8,056,287  
\$84.7 Billion



## VULNERABILITY (V)

**RANK: 30 / 34 PROVINCES ASSESSED**  
**SCORE: 0.384**

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



### Environmental Stress

**SCORE: 0.26 RANK: 30/34 PROVINCES ASSESSED**

<b>2.6%</b> Land susceptible to severe erosion	<b>8.73</b> Livestock Density (per sq km)	<b>3619.4</b> Net Deforestation (hectares per year)
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### Vulnerable Health Status

**SCORE: 0.391 RANK: 18/34 PROVINCES ASSESSED**

<b>69.65</b> Life expectancy (years)	<b>29</b> Infant mortality rate (per 1,000 live births)	<b>93.75</b> Maternal mortality ratio	<b>11.4%</b> Children (under 5) Wasting	<b>9.0%</b> Disability	<b>4.1%</b> Unmet health care needs	<b>18.8%</b> Households with limited access to health facility
<b>1.4%</b> Households with catastrophic health expenditure	<b>28.72</b> Dengue incidence per 100,000 population	<b>6.03</b> Measles incidence per 100,000 population	<b>0.07</b> Malaria incidence per 100,000 population	<b>234</b> TB case notification per 100,000 population	<b>13.32</b> HIV & AIDS incidence per 100,000 population	<b>0.35</b> Prevalence of Leprosy per 10,000 population



### Clean Water Vulnerability

**SCORE: 0.556 RANK: 12/34 PROVINCES ASSESSED**

<b>80.4%</b> Households with improved water	<b>74.7%</b> Households with improved sanitation
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### Information Access Vulnerability

**SCORE: 0.449 RANK: 15/34 PROVINCES ASSESSED**

<b>98.8%</b> Adult literacy rate	<b>97.9%</b> Net primary school enrollment rate	<b>8.18</b> Average years of schooling	<b>66.4%</b> Household using internet
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### Economic Constraints

**SCORE: 0.386 RANK: 20/34 PROVINCES ASSESSED**

<b>4.5%</b> Unemployment rate	<b>48.4</b> Age dependency ratio	<b>12.6%</b> Poverty rate	<b>0.331</b> GINI ratio
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### Gender Inequality

**SCORE: 0.392 RANK: 30/34 PROVINCES ASSESSED**

<b>0.99</b> Female to male literacy rate	<b>0.61</b> Female to male labor ratio	<b>1.04</b> Female to male secondary school enrollment ratio	<b>21.3%</b> Percent female seats in government
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### Population Pressures

**SCORE: 0.256 RANK: 31/34 PROVINCES ASSESSED**

<b>1.5%</b> Average annual total population change	<b>1.9%</b> Average annual urban population change
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## COPING CAPACITY (CC)

**RANK: 17 / 34 PROVINCES ASSESSED**  
**SCORE: 0.483**

Sumatera Selatan exhibits weaker Coping Capacity in the areas of Transportation Capacity and Economic Capacity. The bar charts indicate the socioeconomic themes contributing to the province's overall Coping Capacity score.



### Economic Capacity

**SCORE: 0.315 RANK: 22/34 PROVINCES ASSESSED**

<b>67.9%</b> Labor force participation	<b>2,309,090</b> Average monthly income (IDR)	<b>38.8</b> GDP per capita (Million IDR)
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### Governance

**SCORE: 0.651 RANK: 11/34 PROVINCES ASSESSED**

<b>164</b> Crime rate per 100,000 population	<b>74.8%</b> Crime clearance rate	<b>84.0%</b> Voter participation
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### Environmental Capacity

**SCORE: 0.332 RANK: 18/34 PROVINCES ASSESSED**

**8.3%**  
Protected area



### Infrastructure Capacity

**SCORE: 0.533 RANK: 15/34 PROVINCES ASSESSED**



### Health Care Capacity SCORE: 0.393 RANK: 21/34 PROVINCES ASSESSED

<b>10.8</b> Hospital beds per 10,000 people	<b>2.84</b> Physicians per 10,000 people	<b>20.51</b> Nurses and midwives per 10,000 people	<b>32.2%</b> Time to public hospital (over 1 hour)	<b>37.3%</b> Immunization rate (children under 5)	<b>74.9%</b> Health care accreditation rate	<b>63.2%</b> Population covered by health insurance
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### Transportation Capacity SCORE: 0.266 RANK: 27/34 PROVINCES ASSESSED

<b>0.13</b> Road and rail density	<b>43.03</b> Average distance to port or airport
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### Communications Capacity SCORE: 0.607 RANK: 19/34 PROVINCES ASSESSED

<b>60.7%</b> Mobile phone ownership	<b>1.3%</b> Households with Fixed Phones
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### Energy Capacity SCORE: 0.867 RANK: 4/34 PROVINCES ASSESSED

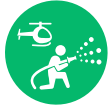
<b>95.2%</b> Households served by state electricity	<b>5.9%</b> Percentage of total national electricity generated in province	<b>195.57</b> Electricity generation GWh per 100,000 Population	<b>91.8%</b> Households with gas for cooking
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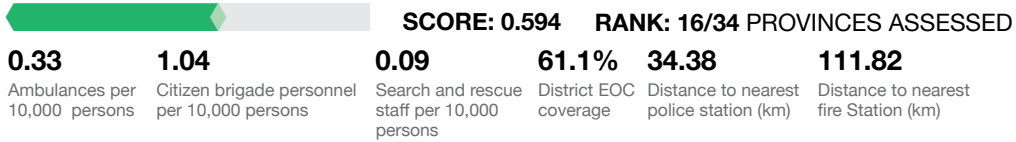
# DISASTER MANAGEMENT CAPABILITIES (DMC)

**RANK: 29 / 34** PROVINCES ASSESSED  
**SCORE: 0.483**

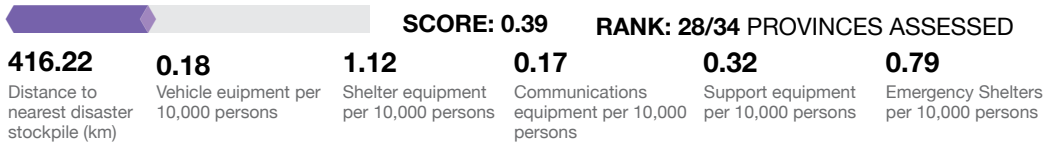
Sumatera Selatan exhibits weaker Disaster Management Capabilities in the areas of Early Warning and Monitoring and Mass Care Support. The bar charts indicate the disaster management themes contributing to the province's overall Disaster Management Capabilities score.



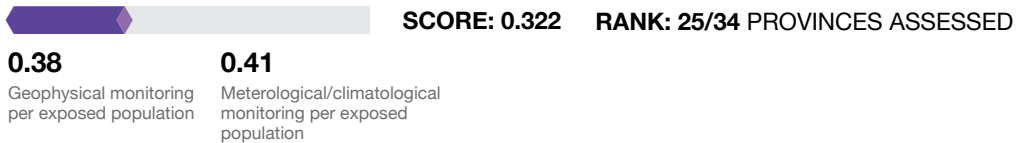
## Emergency Services



## Mass Care Support



## Early Warning and Monitoring





## RESILIENCE (R)

**RANK: 18 / 34 PROVINCES ASSESSED**  
**SCORE: 0.511**

Sumatera Selatan's Moderate Resilience score and ranking are due to Very Low Vulnerability combined with Moderate Coping Capacity, and Very Low Disaster Management Capabilities scores.

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



**Clean Water  
Access  
Vulnerability**



**Information  
Access  
Vulnerability**



**Transportation  
Capacity**



**Economic  
Capacity**



**Early Warning  
and Monitoring**



**Mass Care  
Support**



## HAZARD-SPECIFIC RISK (HSR)



**Earthquake**

**RANK: 24 / 34 PROVINCES ASSESSED**  
**SCORE: 0.171**



**Tsunami**

**RANK: 27 / 34 PROVINCES ASSESSED**  
**SCORE: 0.129**



**Flood**

**RANK: 9 / 34 PROVINCES ASSESSED**  
**SCORE: 0.269**



**Flash Flood**

**RANK: 15 / 34 PROVINCES ASSESSED**  
**SCORE: 0.211**



**Landslide**

**RANK: 23 / 34 PROVINCES ASSESSED**  
**SCORE: 0.176**



**Volcano**

**RANK: 18 / 34 PROVINCES ASSESSED**  
**SCORE: 0.209**



**Drought**

**RANK: 17 / 34 PROVINCES ASSESSED**  
**SCORE: 0.226**



**Wildfire**

**RANK: 7 / 34 PROVINCES ASSESSED**  
**SCORE: 0.264**



**Extreme Weather**

**RANK: 10 / 34 PROVINCES ASSESSED**  
**SCORE: 0.289**



## MULTI-HAZARD RISK (MHR)

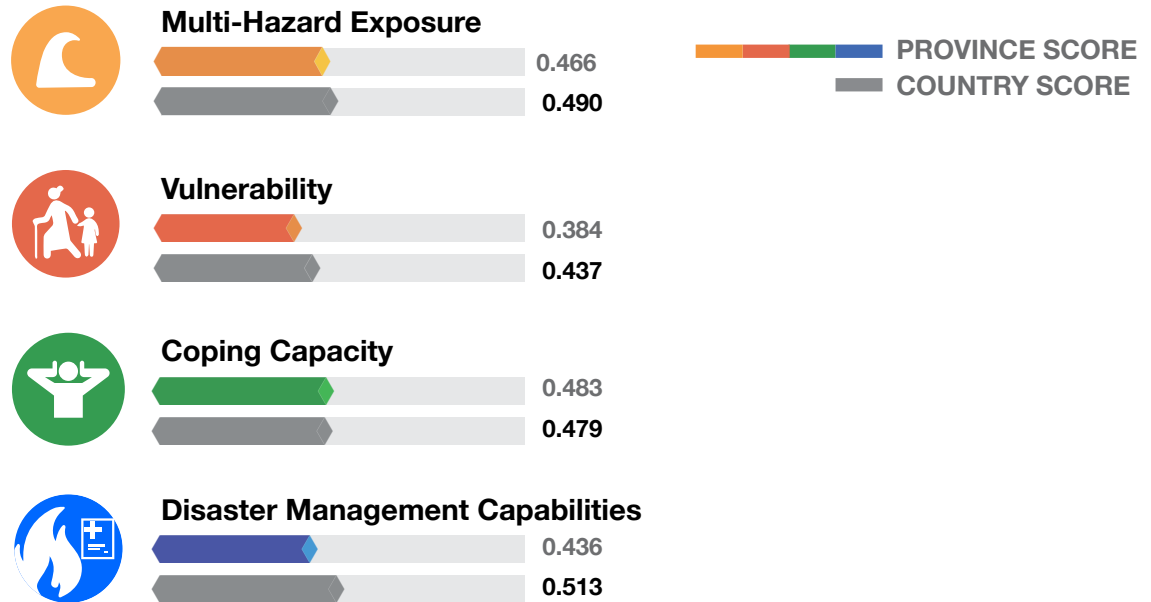
**20 / 34**

RANK WITHIN PROVINCES  
Score: 0.483



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

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





# SUMATERA SELATAN RECOMMENDATIONS

## 1

### Clean Water Access Vulnerability

Findings show that Sumatera Selatan has the 12th lowest ranking for overall Clean Water Access Vulnerability, 10th lowest ranking for Access to Clean Water (80.37% of households have access) and the 13th lowest ranking for Access to Sanitation (74.67% of households have access).

Prioritize investments to expand and improve clean water and sanitation infrastructure and service delivery in urban and rural areas. Given that flood exposure is significant in Sumatera Selatan (50.56% of the population and 51.45% of economic assets are susceptible to flood impacts), institute measures to protect water supplies and reduce the risk to public health from untreated sewage.

## 2

### Information Access Vulnerability

Sumatera Selatan ranks 15th for overall Information Access Vulnerability, driven by Average Years of Schooling (8.18 years) and limited Internet Access (only 66.42 % of households reported using the Internet).

Improve physical access to education, especially in rural areas through infrastructure improvements (e.g., roads, electricity and telecommunication services).

Foster engagement among parents, teachers and school administrators through participation in school committees to raise awareness of parental roles in supporting student learning, reduce absenteeism, and reinforce the value and importance of education.

## SUMATERA SELATAN RECOMMENDATIONS

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### 3

#### Transportation Capacity

Sumatera Selatan has the 13th lowest Transportation Capacity in the country, despite having one of the few railways in the country. Rail and Road Density is limited, with only 0.13 km per square kilometer, and the Average Distance to a Port or Airport from populated areas is over 43 km.

Increase investment in transportation infrastructure improvements through public-private partnerships. Expanded transportation networks will facilitate disaster response and recovery operations, improve access to education and health care, assist in the delivery of other services such as clean water and electricity, and increase economic opportunities for the province.

### 4

#### Economic Capacity

Findings show that Sumatera Selatan has the 13th lowest Economic Capacity, driven by the 5th lowest Average Monthly Income (2.3 million IDR). Lower incomes may be explained by the province's primarily agricultural economy.

Increase access to financing and support structures (e.g. microfinance services and loans) for farmers, small business owners and household enterprises to expand production and marketability of goods and produce.

Diversify the local economy by promoting educational school-to-work programs.

## SUMATERA SELATAN RECOMMENDATIONS

### 5

#### Early Warning and Monitoring

Sumatera Selatan has the 10th lowest ranking for overall Early Warning and Monitoring capabilities. Increase the number of monitoring stations for meteorological and climate-related hazards to boost effectiveness of hazard alerting for flooding, drought, wildfires and extreme weather in the province.

### 6

#### Mass Care Support

Sumatera Selatan has the 7th lowest ranking for overall Mass Care Support, driven by the number of Shelters per 10,000 persons (0.79) and the average Distance to Disaster Stockpiles (over 416 km away).

Identify additional structures that can serve as emergency shelters and develop memorandums of agreement with stakeholders to formalize their use during and after a disaster.

**Better solutions.  
Fewer disasters.**

# Safer world.

**1305 N Holopono Street  
Suite 2, Kihei, HI 96753**

**P: (808) 891-0525  
F: (808) 891-0526**



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**www.pdc.prg**



**ndpba@pdc.org**