



INDONESIA

RIAU

NDPBA PROVINCE PROFILE

RIAU

CAPITAL: PEKANBARU

Area: 87,024 km²



Riau has suffered large scale deforestation and fires in recent years and has a dynamic economy based on extractive industries such as mining, petroleum, natural gas and palm oil plantations. Along with the public health consequences of large scale fires, extreme weather and flooding routinely impact the region, which has moderate levels of coping capacity and resilience. Efforts to reduce population pressures and gender inequalities and enhance transportation and health care capacities are needed to reduce overall risk and strengthen resilience in the region.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Moderate

Score: 0.497 · Rank: 16/34



RESILIENCE (R) - Moderate

Score: 0.510 · Rank: 19/34



MULTI-HAZARD EXPOSURE (MHE) - Moderate

Score: 0.520 · Rank: 15/34



VULNERABILITY (V) - Low

Score: 0.413 · Rank: 21/34



COPING CAPACITY (CC) - Moderate

Score: 0.479 · Rank: 18/34



DISASTER MANAGEMENT CAPABILITIES (DMC) - Low

Score: 0.466 · Rank: 26/34



Population (2020 Projected)

7,128,300



Population in Poverty

6.9%



Adult Literacy Rate

99.2%



Access to improved water

87.4%



Average life expectancy

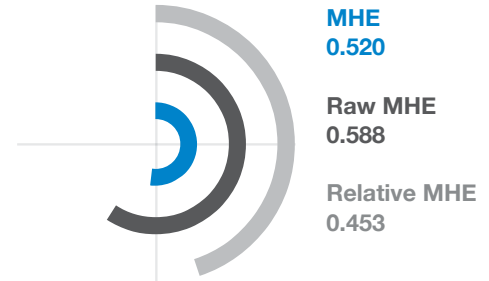
71.5 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 15 / 34 PROVINCES
SCORE: 0.520



ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

14%

953,634

\$14.4 Billion



Tsunami

0%

-

-



Flood

51%

3,368,466

\$64.11 Billion



Flash Flood

1%

95,493

\$1.4 Billion



Landslide

<1%

32,294

\$377.6 Million



Volcano

0%

-

-



Drought

34%

2,255,958

\$53.1 Billion



Wildfire

39%

2,568,135

\$40.9 Billion



Extreme Weather

94%

6,216,814

\$122 Billion



VULNERABILITY (V)

RANK: 21 / 34 PROVINCES ASSESSED
SCORE: 0.413

Vulnerability in Riau is primarily driven by Population Pressures and Gender Inequality. The bar charts indicate the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

SCORE: 0.378 RANK: 16/34 PROVINCES ASSESSED

6.2% Land susceptible to severe erosion	5.48 Livestock Density (per sq km)	23672.3 Net Deforestation (hectares per year)
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Vulnerable Health Status

SCORE: 0.369 RANK: 24/34 PROVINCES ASSESSED

71.48 Life expectancy (years)	24 Infant mortality rate (per 1,000 live births)	115.18 Maternal mortality ratio	12.2% Children (under 5) Wasting	8.1% Disability	6.1% Unmet health care needs	11.8% Households with limited access to health facility
1.4% Households with catastrophic health expenditure	13.47 Dengue incidence per 100,000 population	2.35 Measles incidence per 100,000 population	0.02 Malaria incidence per 100,000 population	197 TB case notification per 100,000 population	36.24 HIV & AIDS incidence per 100,000 population	0.24 Prevalence of Leprosy per 10,000 population



Clean Water Vulnerability

SCORE: 0.385 RANK: 20/34 PROVINCES ASSESSED

87.4% Households with improved water	80.0% Households with improved sanitation
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Information Access Vulnerability

SCORE: 0.355 RANK: 27/34 PROVINCES ASSESSED

99.2% Adult literacy rate	97.3% Net primary school enrollment rate	9.03 Average years of schooling	76.0% Household using internet
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Economic Constraints

SCORE: 0.402 RANK: 18/34 PROVINCES ASSESSED

6.0% Unemployment rate	49.7 Age dependency ratio	6.9% Poverty rate	0.334 GINI ratio
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Gender Inequality

SCORE: 0.429 RANK: 26/34 PROVINCES ASSESSED

0.99 Female to male literacy rate	0.51 Female to male labor ratio	1.07 Female to male secondary school enrollment ratio	28.1% Percent female seats in government
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Population Pressures

SCORE: 0.574 RANK: 6/34 PROVINCES ASSESSED

2.8% Average annual total population change	3.1% Average annual urban population change
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COPING CAPACITY (CC)

RANK: 18 / 34 PROVINCES ASSESSED
SCORE: 0.479

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



Economic Capacity

SCORE: 0.437 **RANK: 9/34 PROVINCES ASSESSED**

65.1% **2,800,135** **109.8**
Labor force participation Average monthly income (IDR) GDP per capita (Million IDR)



Governance

SCORE: 0.596 **RANK: 20/34 PROVINCES ASSESSED**

109 **51.7%** **84.7%**
Crime rate per 100,000 population Crime clearance rate Voter participation



Environmental Capacity

SCORE: 0.288 **RANK: 20/34 PROVINCES ASSESSED**

7.3%
Protected area



Infrastructure Capacity

SCORE: 0.466 **RANK: 20/34 PROVINCES ASSESSED**



Health Care Capacity

SCORE: 0.392 **RANK: 22/34 PROVINCES ASSESSED**

9.8 **4.2** **17.9** **28.2%** **30.8%** **77.2%** **65.6%**
Hospital beds per 10,000 people Physicians per 10,000 people Nurses and midwives per 10,000 people Time to public hospital (over 1 hour) Immunization rate (children under 5) Health care accreditation rate Population covered by health insurance



Transportation Capacity

SCORE: 0.325 **RANK: 20/34 PROVINCES ASSESSED**

0.14 **37.71**
Road and rail density Average distance to port or airport



Communications Capacity

SCORE: 0.656 **RANK: 12/34 PROVINCES ASSESSED**

67.3% **1.0%**
Mobile phone ownership Households with Fixed Phones



Energy Capacity

SCORE: 0.492 **RANK: 19/34 PROVINCES ASSESSED**

91.4% **0.4%** **15.09** **87.0%**
Households served by state electricity Percentage of total national electricity generated in province Electricity generation GWh per 100,000 Population Households with gas for cooking



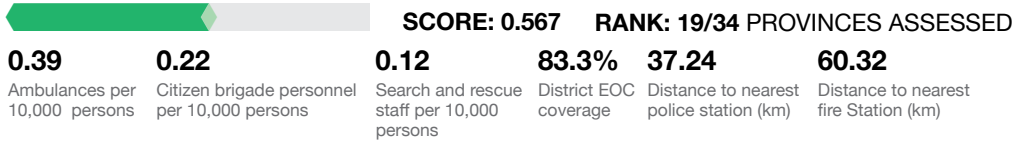
DISASTER MANAGEMENT CAPABILITIES (DMC)

RANK: 26 / 34 PROVINCES ASSESSED
SCORE: 0.479

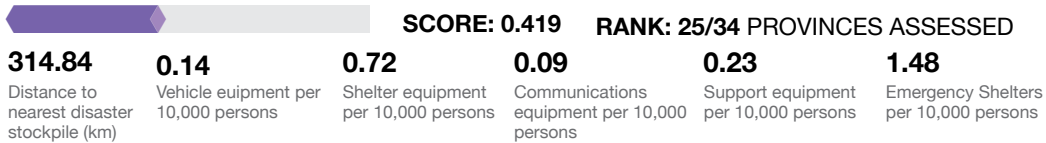
Riau exhibits weaker Disaster Management Capabilities in the areas of Early Warning and Monitoring and Mass Care Support. The bar charts indicate the disaster management themes contributing to the province's overall Disaster Management Capabilities score.



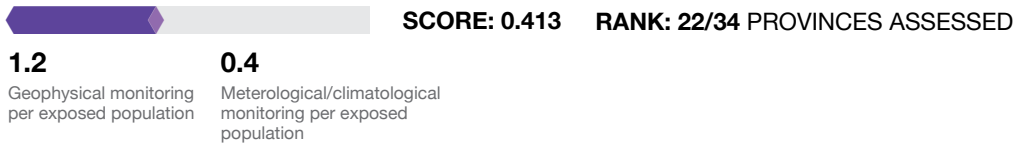
Emergency Services



Mass Care Support



Early Warning and Monitoring





RESILIENCE (R)

RANK: 19 / 34 PROVINCES ASSESSED
SCORE: 0.510

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

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



Population Pressures



Gender Inequality



Transportation Capacity



Health Care Capacity



Early Warning and Monitoring



Mass Care Support



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 26 / 34 PROVINCES ASSESSED
SCORE: 0.163



Tsunami

RANK: 29 / 34 PROVINCES ASSESSED
SCORE: 0.118



Flood

RANK: 6 / 34 PROVINCES ASSESSED
SCORE: 0.284



Flash Flood

RANK: 20 / 34 PROVINCES ASSESSED
SCORE: 0.190



Landslide

RANK: 25 / 34 PROVINCES ASSESSED
SCORE: 0.167



Volcano

RANK: 27 / 34 PROVINCES ASSESSED
SCORE: 0.118



Drought

RANK: 12 / 34 PROVINCES ASSESSED
SCORE: 0.237



Wildfire

RANK: 3 / 34 PROVINCES ASSESSED
SCORE: 0.343



Extreme Weather

RANK: 8 / 34 PROVINCES ASSESSED
SCORE: 0.293



MULTI-HAZARD RISK (MHR)

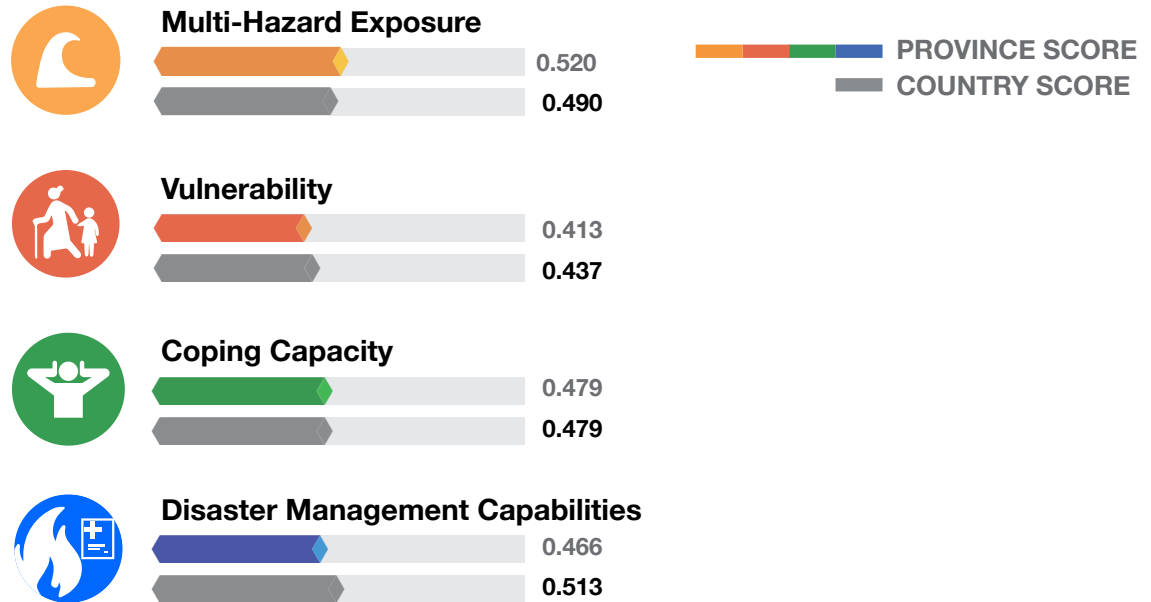
16 / 34

RANK WITHIN PROVINCES
Score: 0.497



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

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



RIAU RECOMMENDATIONS

1

Population Pressures

Findings show that Riau ranks 6th for overall Population Pressures, with significant Average Population Growth (2.79%), and a Net Recent Migration rate of 13.21%.

Riau is exposed to multiple hazards, including extreme weather (tornadoes), drought, earthquakes, floods, flash floods, landslides in the south and southwestern portions of the province, and wildfires. As the population increases, hazard exposure to residents and economic assets will also increase.

Focus efforts to initiate risk reduction initiatives into long-term development plans and policies to reduce potential damages and losses resulting from hazard impacts.

2

Gender Inequality

Riau's overall Gender Inequality score is driven by gender inequities in the labor force. In addition, fewer than 50% of those attending secondary school are female. Promote higher education opportunities for women to provide greater economic opportunities and enhanced quality of life.

Promote gender equality through the enactment and implementation of laws that establish rights, responsibilities and opportunities for women, men, girls and boys related to education, leadership, employment.

Strengthen access to, and participation of women in formal and informal justice systems to promote equitable rights and resolution of issues.

RIAU RECOMMENDATIONS

3

Transportation Capacity

Findings show that Riau has the 14th lowest ranking for density of transportation networks, including Rail and Road Density and average Distance to Port Facilities (38 km) from populated areas.

Limited transportation networks hamper evacuation activities as well as the delivery of disaster relief supplies and care services to populations affected by natural disasters.

Secure investments to improve existing transportation capacity and expand transportation infrastructure to meet the needs of the growing population and those in underserved areas.

4

Health Care Capacity

Riau has the 13th lowest Health Care Capacity in the country, driven by the 2nd lowest Immunization Rate in children under 5 years of age (31%). In addition, findings show that 28% of households require over an hour to reach the nearest hospital, and 34% of the population in the province are uninsured. Improvements in overall health care capacity are needed with regard to improved access and preventative care.

Expand health care infrastructure in remote areas to meet the needs of underserved populations and reduce travel time required to reach health care services. Continue efforts to expand insurance coverage and health education programs to improve maternal, infant, and child health.

Continue to collaborate with NGO partners to fund initiatives focused on health care capacity improvements and reduction of the transmission of infectious diseases.

RIAU RECOMMENDATIONS

5

Early Warning and Monitoring

Findings show that Riau has greater Early Warning and Monitoring capabilities regarding geophysical hazards. Given that the province has significant exposure to meteorological and climate-related hazards, efforts to expand instrumentation and early warning systems for these hazards would increase the capacity of provincial disaster managers to provide adequate hazard warning information to the population.

6

Mass Care Support

Riau has the 10th lowest Mass Care Support ranking. As Riau's population grows, the need for pre-positioned disaster equipment and adequate supplies will also increase.

Anticipate the increased demand for disaster equipment and requisition additional supplies to be able to better accommodate the growing population during a disaster.

**Better solutions.
Fewer disasters.**

Safer world.

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

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



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