



INDONESIA

GORONTALO

NDPBA PROVINCE PROFILE

GORONTALO

CAPITAL: GORONTALO

Area: 11,257 km²



In collaboration with UNDRR, BNPB, and allied local, regional and international DRR entities, Gorontalo provincial authorities have made excellent strides to counter

the endemic flooding caused by the province’s topography and severe weather events and exacerbated by the region’s rapid economic growth and conversion of agricultural lands to other uses. Located on the Minahasa Peninsula in Sulawesi, the region has experienced large earthquakes in the last century and has high multi-hazard exposure and vulnerability paired with excellent disaster management capabilities via their provincial EOC.

RISK AND VULNERABILITY COMPONENT SCORE



MULTI-HAZARD RISK (MHR) - Moderate

Score: 0.504 • Rank: 15/34



RESILIENCE (R) - Moderate

Score: 0.530 • Rank: 15/34



MULTI-HAZARD EXPOSURE (MHE) - High

Score: 0.605 • Rank: 9/34



VULNERABILITY (V) - High

Score: 0.453 • Rank: 11/34



COPING CAPACITY (CC) - Moderate

Score: 0.475 • Rank: 19/34



DISASTER MANAGEMENT CAPABILITIES (DMC) - Very High

Score: 0.567 • Rank: 5/34



Population (2020 Projected)

1,219,600



Population in Poverty

15.3%



Adult Literacy Rate

98.8%



Access to improved water

94.2%



Average life expectancy

67.9 years

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



MULTI-HAZARD EXPOSURE (MHE)

RANK: 9 / 34 PROVINCES
SCORE: 0.605



MHE
0.605

Raw MHE
0.209

Relative MHE
1

ESTIMATED POPULATION AND CAPITAL EXPOSED TO EACH HAZARD:



Earthquake

100%

1,135,969
\$12.8 Billion



Tsunami

1%

10,164
\$81.2 Million



Flood

57%

648,056
\$8.76 Billion



Flash Flood

2%

18,194
\$185.5 Million



Landslide

3%

36,589
\$313.5 Million



Volcano

0%

-
-



Drought

98%

1,109,077
\$12.6 Billion



Wildfire

6%

64,248
\$533.9 Million



Extreme Weather

97%

1,101,289
\$12.5 Billion



VULNERABILITY (V)

RANK: 11 / 34 PROVINCES ASSESSED
SCORE: 0.453

Vulnerability in Gorontalo is primarily driven by Vulnerable Health Status and Economic Constraints. The bar charts indicate the socioeconomic themes contributing to the province's overall Vulnerability score.



Environmental Stress

SCORE: 0.206 RANK: 32/34 PROVINCES ASSESSED

13.9%	31.72	-837
Land susceptible to severe erosion	Livestock Density (per sq km)	Net Deforestation (hectares per year)



Vulnerable Health Status

SCORE: 0.690 RANK: 1/34 PROVINCES ASSESSED

67.93	67	370.98	14.4%	11.7%	7.5%	5.8%
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
0.9%	68.58	1.77	0.03	310	18.14	1.89
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: 0.394 RANK: 19/34 PROVINCES ASSESSED

94.2%	74.6%
Households with improved water	Households with improved sanitation



Information Access Vulnerability

SCORE: 0.417 RANK: 19/34 PROVINCES ASSESSED

98.8%	98.4%	7.69	72.7%
Adult literacy rate	Net primary school enrollment rate	Average years of schooling	Household using internet



Economic Constraints

SCORE: 0.513 RANK: 8/34 PROVINCES ASSESSED

4.1%	47.5	15.3%	0.407
Unemployment rate	Age dependency ratio	Poverty rate	GINI ratio



Gender Inequality

SCORE: 0.470 RANK: 22/34 PROVINCES ASSESSED

1	0.58	1.22	28.9%
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: 0.481 RANK: 11/34 PROVINCES ASSESSED

1.7%	5.1%
Average annual total population change	Average annual urban population change



COPING CAPACITY (CC)

RANK: 19 / 34 PROVINCES ASSESSED
SCORE: 0.475

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



Economic Capacity

SCORE: 0.226 **RANK: 30/34 PROVINCES ASSESSED**

66.8% **2,403,484** **22.5**
Labor force participation Average monthly income (IDR) GDP per capita (Million IDR)



Governance

SCORE: 0.671 **RANK: 8/34 PROVINCES ASSESSED**

243 **64.5%** **89.0%**
Crime rate per 100,000 population Crime clearance rate Voter participation



Environmental Capacity

SCORE: 0.725 **RANK: 6/34 PROVINCES ASSESSED**

17.6%
Protected area



Infrastructure Capacity

SCORE: 0.445 **RANK: 25/34 PROVINCES ASSESSED**



Health Care Capacity

SCORE: 0.567 **RANK: 10/34 PROVINCES ASSESSED**

15.7 **2.52** **15.64** **19.0%** **59.0%** **85.1%** **79.1%**
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: 0.26 **RANK: 28/34 PROVINCES ASSESSED**

0.18 **46.77**
Road and rail density Average distance to port or airport



Communications Capacity

SCORE: 0.446 **RANK: 30/34 PROVINCES ASSESSED**

60.4% **0.2%**
Mobile phone ownership Households with Fixed Phones



Energy Capacity

SCORE: 0.508 **RANK: 17/34 PROVINCES ASSESSED**

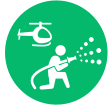
97.3% **0.1%** **16.01** **84.8%**
Households served by state electricity Percentage of total national electricity generated in province Electricity generation GWh per 100,000 Population Households with gas for cooking



DISASTER MANAGEMENT CAPABILITIES (DMC)

RANK: 5 / 34 PROVINCES ASSESSED
SCORE: 0.475

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



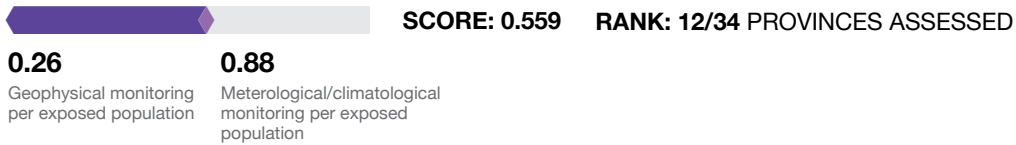
Emergency Services



Mass Care Support



Early Warning and Monitoring





RESILIENCE (R)

RANK: 15 / 34 PROVINCES ASSESSED
SCORE: 0.530

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

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



Vulnerable Health Status



Economic Constraints



Economic Capacity



Transportation Capacity



Mass Care Support



Early Warning and Monitoring



HAZARD-SPECIFIC RISK (HSR)



Earthquake

RANK: 10 / 34 PROVINCES ASSESSED
SCORE: 0.286



Tsunami

RANK: 21 / 34 PROVINCES ASSESSED
SCORE: 0.179



Flood

RANK: 17 / 34 PROVINCES ASSESSED
SCORE: 0.214



Flash Flood

RANK: 29 / 34 PROVINCES ASSESSED
SCORE: 0.124



Landslide

RANK: 22 / 34 PROVINCES ASSESSED
SCORE: 0.178



Volcano

RANK: 22 / 34 PROVINCES ASSESSED
SCORE: 0.132



Drought

RANK: 13 / 34 PROVINCES ASSESSED
SCORE: 0.237



Wildfire

RANK: 31 / 34 PROVINCES ASSESSED
SCORE: 0.142



Extreme Weather

RANK: 25 / 34 PROVINCES ASSESSED
SCORE: 0.210



MULTI-HAZARD RISK (MHR)

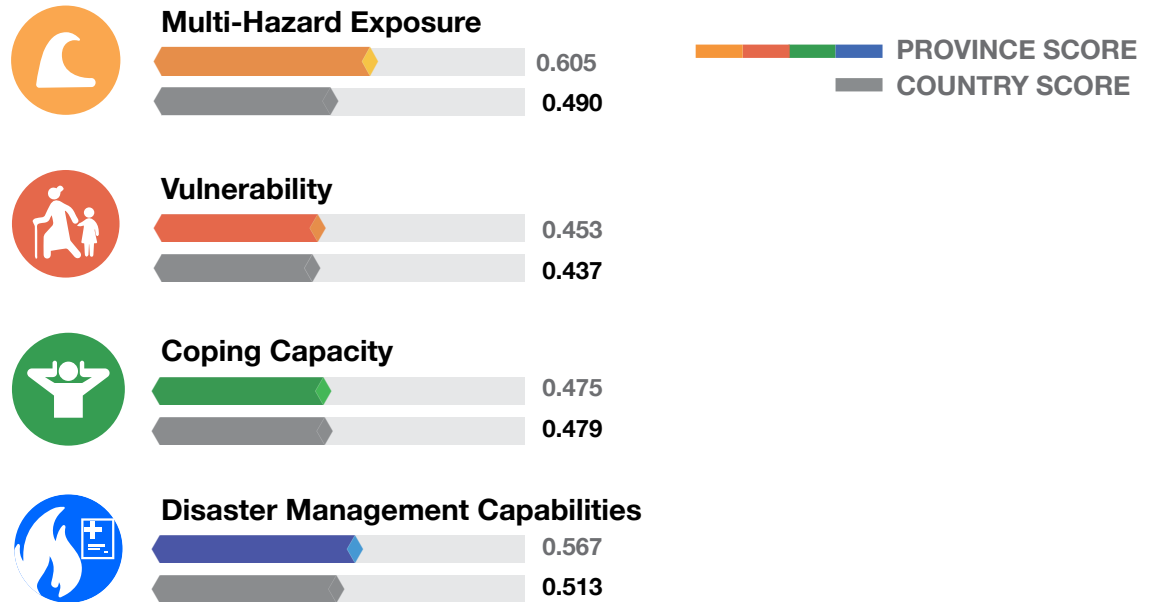
15 / 34

RANK WITHIN PROVINCES
Score: 0.504



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

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



GORONTALO RECOMMENDATIONS

1

Vulnerable Health Status

Findings show that Gorontalo has the highest overall Vulnerable Health Status in the country, with the highest Maternal Mortality Rate (370.98 deaths per 100,000 live births), the 2nd highest Infant Mortality Rate (67 per 1,000 live births) and the 2nd highest prevalence of wasting (acute malnutrition) in children under the age of 5. The province also has the 6th highest ranking for overall Infectious Disease incidence.

Increase the allocation of funds to improve maternal, infant, and child health and reduce transmission of infectious diseases through improved surveillance and monitoring. Expand minimum health service standards to improve access to, and quality of care, with special focus on mothers, children, adolescents, elderly, and those with chronic health conditions.

Advance partnerships among government agencies and NGOs to improve access to and affordability of healthcare to remote and impoverished areas of the province.

2

Economic Constraints

Gorontalo ranks 8th for overall Economic Constraints in the country, driven by the 2nd highest GINI ratio, and the 5th highest poverty rate. Fifteen percent (15%) of the population in Gorontalo are living in poverty. Investments in infrastructure to support informal sectors, such as agriculture and fisheries, could improve production and processing capacity, and promote Gorontalo's economic development.

Boost efficiency of financial sector systems to streamline access to credit and processing of loans for informal sector enterprises.

GORONTALO RECOMMENDATIONS

3

Economic Capacity

Gorontalo has the 5th lowest Economic Capacity in the country, driven by the 5th lowest GDP per Capita (22.5 million IDR), the 10th lowest Average Monthly Income (2.4 million IDR), and 14th lowest Labor Force Participation rate (67%).

Increase access to financing and support structures (e.g. microfinance services and loans) for poor and vulnerable populations.

4

Transportation Capacity

Gorontalo has the 7th lowest ranking for overall Transportation Capacity. The Average Distance to a Port or Airport is 46.77 km.

Investments and improvements to transportation networks and port/airport facilities would facilitate disaster management response operations and recovery activities and directly benefit health outcomes by making professional health services more accessible. Expanded transportation networks would also offer economic growth opportunities for the primarily agricultural province.

GORONTALO RECOMMENDATIONS

5

Mass Care Support

Gorontalo has the 5th lowest ranking for Disaster Equipment and has just 1.52 Emergency Shelters per 10,000 persons. Designate additional structures for use as shelters and invest in disaster equipment and supplies adequate to serve the anticipated needs of disaster affected populations.

6

Early Warning and Monitoring

Based on findings, Gorontalo has the 8th lowest geophysical monitoring coverage. Gorontalo's greatest hazard exposure is to earthquakes, flooding, extreme weather, and drought. Intensify efforts to improve the penetration of warning messages to the "last kilometer." Continue hazard awareness and preparedness campaigns to improve citizen understanding of warning information and response actions.

**Better solutions.
Fewer disasters.**

Safer world.

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