MADAGASCAR

BONGOLAVA

NDPBA REGION PROFILE

PDC | GLOBAL

MADAGASCAR
REGION: BONGOLAVA
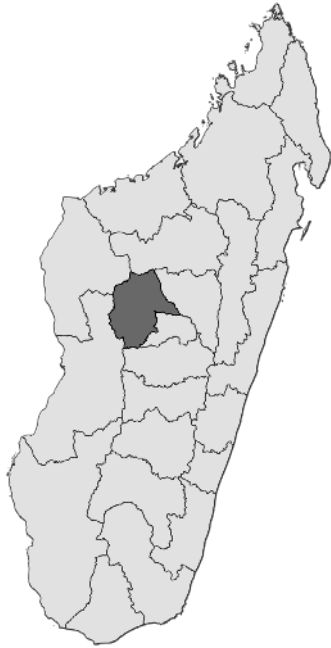
RISK AND VULNERABILITY
COMPONENT SCORES

MULTI-HAZARD RISK (MHR) -
Low
Score: 0.396 • Rank: 18/23

RESILIENCE (R) -
Low
Score: 0.409 • Rank: 14/23

MULTI-HAZARD EXPOSURE (MHE) -
Very Low
Score: 0.005 • Rank: 23/23

VULNERABILITY (V) -
Low
Score: 0.456 • Rank: 14/23

COPING CAPACITY (CC) -
Very Low
Score: 0.274 • Rank: 20/23

REGION HIGHLIGHTS

Population (2018 Census)
670,993

Extreme Poverty Rate
71.0%

Household Access to Drinking Water
51.2%

Literacy Rate
86.0%

Household Access to Electricity
51.2%

MULTI-HAZARD EXPOSURE (MHE)

RANK: 23 / 23 REGIONS
SCORE: 0.005

MHE
0.005

Raw MHE
0.009

Relative MHE
0

ESTIMATED EXPOSURE TO EACH HAZARD:

Sea Level Rise
👤 **0%** (0)
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

Landslide
👤 **8%** (10,970)
Buildings Exposed: **10%**
Critical Infrastructure Exposed: **8%**

Coastal Flooding
👤 **0%** (0)
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

Extreme Heat
0% 👤 (0)
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

Riverine Flooding
👤 **3%** (3,970)
Buildings Exposed: **<1%**
Critical Infrastructure Exposed: **1%**

Wildfire
👤 **<1%** (656)
Buildings Exposed: **<1%**
Critical Infrastructure Exposed: **1%**

Tsunami
👤 **0%** (0)
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

Malaria
2% 👤 (2,460)
Buildings Exposed: **2%**
Critical Infrastructure Exposed: **1%**

Tropical Cyclone Wind
👤 **100%** (138,000)
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **100%**

Locust
Cropland Exposed: **100%**

Earthquake
👤 **0%** (0)
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

NOTE: Population exposure values are estimated using PDC's All-hazard Impact Model (AIM). Values may differ from Census population.

VULNERABILITY (V)

RANK: 14 / 23 REGIONS ASSESSED
SCORE: 0.456

Below is a summary of the regional Vulnerability Assessment within Bongolava. Detailed region-level results, including all indicators used to assess vulnerability, are available in DisasterAWARE.

Information Access Vulnerability

0 ──────── 1   **SCORE: 0.638**   **RANK: 11/23** REGIONS ASSESSED

Clean Water Access Vulnerability

0 ──────── 1   **SCORE: 0.623**   **RANK: 14/23** REGIONS ASSESSED

Economic Contraints
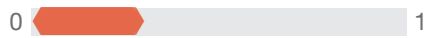
0 ──────── 1   **SCORE: 0.266**   **RANK: 16/23** REGIONS ASSESSED

Gender Disparity
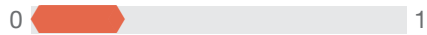
0 ──────── 1   **SCORE: 0.219**   **RANK: 18/23** REGIONS ASSESSED

Vulnerable Health Status
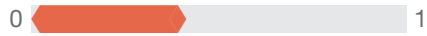
0 ──────── 1   **SCORE: 0.379**   **RANK: 12/23** REGIONS ASSESSED

Housing Vulnerability

0 ──────── 1   **SCORE: 0.615**   **RANK: 11/23** REGIONS ASSESSED

VULNERABILITY (V)

KEY FACTORS INFLUENCING VULNERABILITY

Information Access Vulnerability

The ability to understand hazard and disaster-related information before, during, and after an event is central to acting on that information. If information channels and formats are limited, the groups and individuals exposed to information inclusive of mitigation options, preparedness measures, available resources, and impending hazard events, will likewise be limited. Information access enables the building and diversification of exposed populations' critical skill sets both before and after disasters strike.

Clean Water Access Vulnerability

Those without easy or adequate access to water distribution and containment systems face significant demands on daily routines that effectively limit their response and recovery capacity and the ability to maintain livelihoods. Increasing access to improved water and sanitation improves health outcomes and frees up resources to decrease further susceptibility to impacts.
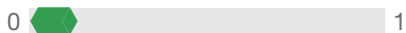
COPING CAPACITY (CC)

RANK: 20 / 23 REGIONS ASSESSED
SCORE: 0.274

Below is a summary of the regional Coping Capacity Assessment within Bongolava. Detailed region-level results, including all indicators used to assess coping capacity, are available in DisasterAWARE.

Economic Capacity

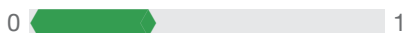0 ▭ 1   **SCORE: 0.094**   **RANK: 20/23** REGIONS ASSESSED

Health Care Capacity

0 ▭ 1   **SCORE: 0.421**   **RANK: 7/23** REGIONS ASSESSED

Energy and Communications Capacity

0 ▭ 1   **SCORE: 0.325**   **RANK: 16/23** REGIONS ASSESSED

Transportation Capacity
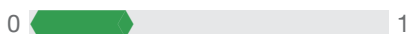
0 ▭ 1   **SCORE: 0.258**   **RANK: 22/23** REGIONS ASSESSED

KEY FACTORS INFLUENCING COPING CAPACITY

Economic Capacity

A strong economic foundation provides an indication of a region's ability to absorb economic losses and quickly mobilize financial assets for preparedness, response and recovery activities. Limited economic capacity correlates to disproportionate disaster impacts.

Transportation Capacity

Transportation Capacity represents the ability to ensure efficient movement and delivery of resources key to effective humanitarian assistance and disaster relief operations, including the provision of health services.
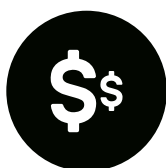
RESILIENCE (R)

Key drivers of Resilience within Bongolava are summarized below. Detailed region-level results for the RVA are available in DisasterAWARE.

## KEY FACTORS INFLUENCING RESILIENCE

Economic Capacity

A strong economic foundation provides an indication of a region's ability to absorb economic losses and quickly mobilize financial assets for preparedness, response and recovery activities. Limited economic capacity correlates to disproportionate disaster impacts.

Transportation Capacity

Transportation Capacity represents the ability to ensure efficient movement and delivery of resources key to effective humanitarian assistance and disaster relief operations, including the provision of health services.
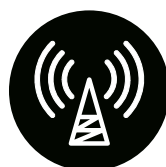
Energy and Communications Capacity

Homes, businesses, industry, and government all rely on access to energy resources and communications for continuity of daily activities. Expanding, strengthening, and securing the energy network and increasing the availability of internet services will contribute to economic development, facilitate effective and coordinated communication, and increase the speed of recovery processes in the aftermath of a disaster.

Information Access Vulnerability

The ability to understand hazard and disaster-related information before, during, and after an event is central to acting on that information. If information channels and formats are limited, the groups and individuals exposed to information inclusive of mitigation options, preparedness measures, available resources, and impending hazard events, will likewise be limited. Information access enables the building and diversification of exposed populations' critical skill sets both before and after disasters strike.

HAZARD-SPECIFIC RISK (HSR)

Sea Level Rise

RANK: **15 / 23** REGIONS ASSESSED
SCORE: **0.000**

Coastal Flooding

RANK: **15 / 23** REGIONS ASSESSED
SCORE: **0.000**

Riverine Flooding

RANK: **20 / 23** REGIONS ASSESSED
SCORE: **0.099**

Tsunami

RANK: **15 / 23** REGIONS ASSESSED
SCORE: **0.000**

Tropical Cyclone Wind

RANK: **12 / 23** REGIONS ASSESSED
SCORE: **0.634**

Earthquake

RANK: **7 / 23** REGIONS ASSESSED
SCORE: **0.000**

Landslide

RANK: **18 / 23** REGIONS ASSESSED
SCORE: **0.233**

Extreme Heat

RANK: **20 / 23** REGIONS ASSESSED
SCORE: **0.000**

Wildfire

RANK: **16 / 23** REGIONS ASSESSED
SCORE: **0.093**

Malaria

RANK: **18 / 23** REGIONS ASSESSED
SCORE: **0.075**

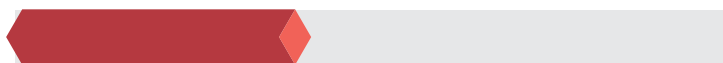### Locust

RANK: **1 / 23** REGIONS ASSESSED
SCORE: **0.768**

MULTI-HAZARD RISK (MHR)

18 / 23
RANK AMONG REGIONS
SCORE: 0.396

The Multi-Hazard Risk score and ranking represent a combination of multi-hazard exposure, vulnerability, and coping capacity. Below is a summary of the Bongolava region's RVA results. Detailed region-level results for the RVA are available in DisasterAWARE.

Multi-Hazard Risk component scores compared to overall average country scores:
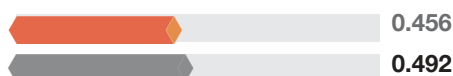
▬ COUNTRY SCORE
▬ BONGOLAVA SCORE

Multi-Hazard Exposure
0.005
0.371

Vulnerability
0.456
0.492

Coping Capacity
0.274
0.383

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Better solutions.
Fewer disasters.

Safer world.

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