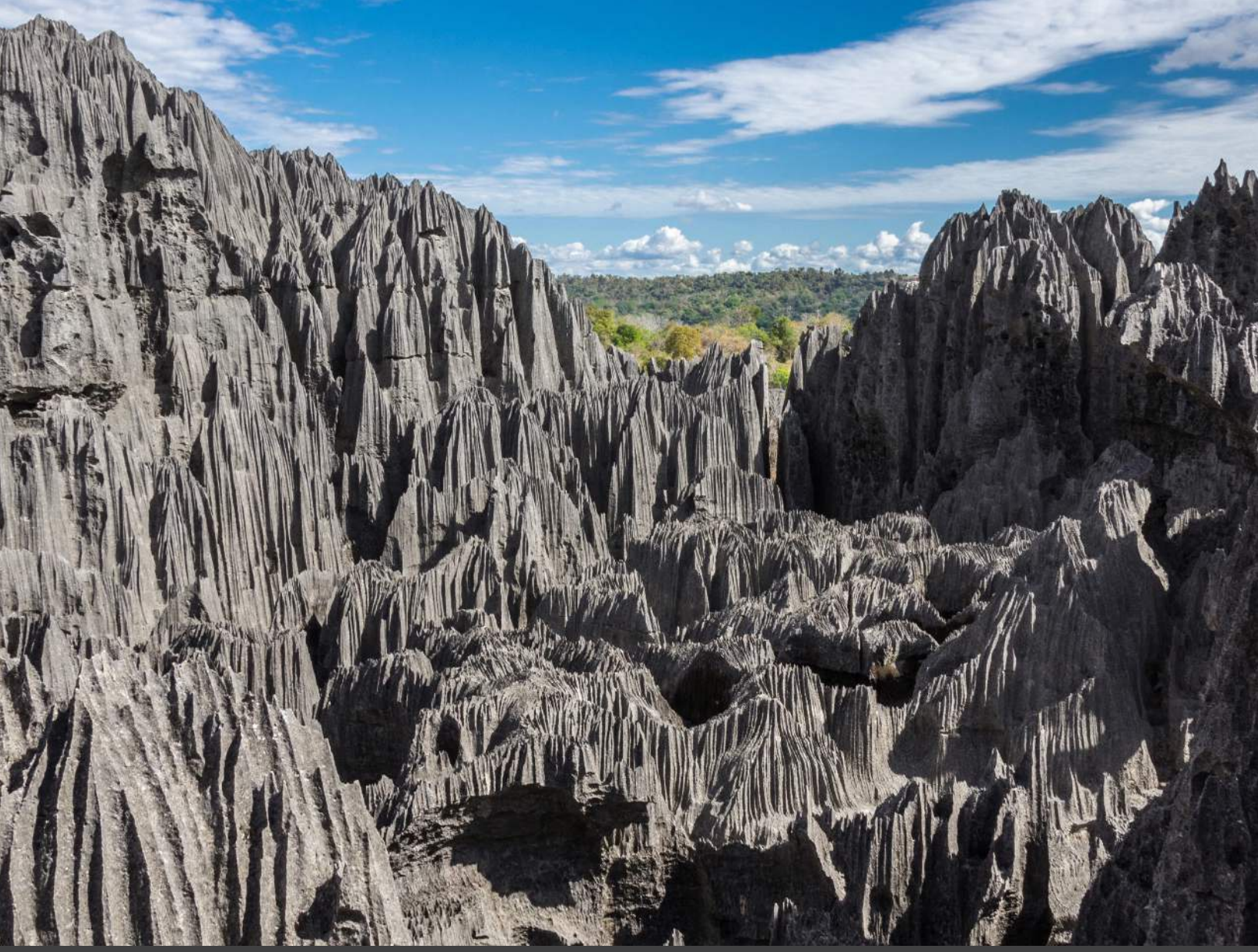


MADAGASCAR

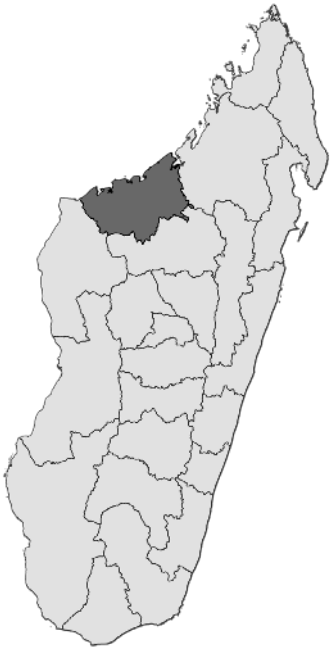
BOENY

NDPBA REGION PROFILE

PDC | GLOBAL

MADAGASCAR

REGION: BOENY



RISK AND VULNERABILITY

COMPONENT SCORES

MULTI-HAZARD RISK (MHR) -
Low
Score: 0.446 • Rank: 16/23

RESILIENCE (R) -
High
Score: 0.534 • Rank: 6/23

MULTI-HAZARD EXPOSURE (MHE) -
Moderate
Score: 0.406 • Rank: 12/23

VULNERABILITY (V) -
Low
Score: 0.409 • Rank: 15/23

COPING CAPACITY (CC) -
Very High
Score: 0.477 • Rank: 3/23

REGION HIGHLIGHTS

Population (2018 Census)
929,312

Extreme Poverty Rate
28.6%

Household Access to Drinking Water
39.5%

Literacy Rate
72.2%

Household Access to Electricity
39.5%

MULTI-HAZARD EXPOSURE (MHE)

RANK: 12 / 23 REGIONS
SCORE: 0.406

ESTIMATED EXPOSURE TO EACH HAZARD:

Sea Level Rise
<1% (872)
Buildings Exposed: **1%**
Critical Infrastructure Exposed: **3%**

Coastal Flooding
3% (7,890)
Buildings Exposed: **8%**
Critical Infrastructure Exposed: **9%**

Riverine Flooding
31% (75,500)
Buildings Exposed: **40%**
Critical Infrastructure Exposed: **43%**

Tsunami
<1% (14)
Buildings Exposed: **<1%**
Critical Infrastructure Exposed: **6%**

Tropical Cyclone Wind
100% (243,000)
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **100%**

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

Landslide
2% (5,190)
Buildings Exposed: **3%**
Critical Infrastructure Exposed: **2%**

Extreme Heat
100% (243,000)
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **100%**

Wildfire
3% (8,210)
Buildings Exposed: **2%**
Critical Infrastructure Exposed: **3%**

Malaria
6% (14,500)
Buildings Exposed: **4%**
Critical Infrastructure Exposed: **1%**

Locust
Cropland 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: 15 / 23 REGIONS ASSESSED
SCORE: 0.409

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

Information Access Vulnerability

0 — 1

SCORE: 0.553 **RANK: 14/23** REGIONS ASSESSED

Clean Water Access Vulnerability

0 — 1

SCORE: 0.526 **RANK: 17/23** REGIONS ASSESSED

Economic Contraints

0 — 1

SCORE: 0.226 **RANK: 18/23** REGIONS ASSESSED

Gender Disparity

0 — 1

SCORE: 0.371 **RANK: 9/23** REGIONS ASSESSED

Vulnerable Health Status

0 — 1

SCORE: 0.317 **RANK: 16/23** REGIONS ASSESSED

Housing Vulnerability

0 — 1

SCORE: 0.461 **RANK: 16/23** REGIONS ASSESSED

VULNERABILITY (V)

RANK: 15 / 23 REGIONS ASSESSED
SCORE: 0.409

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: 3 / 23 REGIONS ASSESSED
SCORE: 0.477

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

Economic Capacity

0 — 1

SCORE: 0.631 **RANK: 2/23** REGIONS ASSESSED

Health Care Capacity

0 — 1

SCORE: 0.361 **RANK: 9/23** REGIONS ASSESSED

Energy and Communications Capacity

0 — 1

SCORE: 0.425 **RANK: 7/23** REGIONS ASSESSED

Transportation Capacity

0 — 1

SCORE: 0.491 **RANK: 12/23** REGIONS ASSESSED

KEY FACTORS INFLUENCING COPING CAPACITY

Health Care Capacity

Robust access to skilled caregivers and dedicated facilities for the treatment of injury and disease during non-disaster times greatly enhances the ability of the served population to absorb and manage post-disaster impacts to health, and increases the likelihood that disaster-associated health and medical impacts may be addressed.

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.

RESILIENCE (R)

RANK: 6 / 23 REGIONS ASSESSED
SCORE: 0.534

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

KEY FACTORS INFLUENCING RESILIENCE

Health Care Capacity

Robust access to skilled caregivers and dedicated facilities for the treatment of injury and disease during non-disaster times greatly enhances the ability of the served population to absorb and manage post-disaster impacts to health, and increases the likelihood that disaster-associated health and medical impacts may be addressed.

Energy and Communications Capacity

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Clean Water Access Vulnerability

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HAZARD-SPECIFIC RISK (HSR)

Sea Level Rise	**RANK:** 4 / 23 REGIONS ASSESSED	**SCORE:** 0.482
Coastal Flooding	**RANK:** 4 / 23 REGIONS ASSESSED	**SCORE:** 0.559
Riverine Flooding	**RANK:** 2 / 23 REGIONS ASSESSED	**SCORE:** 0.604
Tsunami	**RANK:** 8 / 23 REGIONS ASSESSED	**SCORE:** 0.163
Tropical Cyclone Wind	**RANK:** 21 / 23 REGIONS ASSESSED	**SCORE:** 0.575
Earthquake	**RANK:** 7 / 23 REGIONS ASSESSED	**SCORE:** 0.000
Landslide	**RANK:** 22 / 23 REGIONS ASSESSED	**SCORE:** 0.080
Extreme Heat	**RANK:** 4 / 23 REGIONS ASSESSED	**SCORE:** 0.618
Wildfire	**RANK:** 10 / 23 REGIONS ASSESSED	**SCORE:** 0.182
Malaria	**RANK:** 17 / 23 REGIONS ASSESSED	**SCORE:** 0.104
Locust	**RANK:** 23 / 23 REGIONS ASSESSED	**SCORE:** 0.000

MULTI-HAZARD RISK (MHR)

16 / 23
RANK AMONG REGIONS
SCORE: 0.446

The Multi-Hazard Risk score and ranking represent a combination of multi-hazard exposure, vulnerability, and coping capacity. Below is a summary of the Boeny 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
BOENY SCORE

Multi-Hazard Exposure

0.406
0.371

Vulnerability

0.409
0.492

Coping Capacity

0.477
0.383

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