



MADAGASCAR

ATSIMO ANDREFANA

NDPBA REGION PROFILE

MADAGASCAR

REGION: ATSIMO ANDREFANA



RISK AND VULNERABILITY COMPONENT SCORES



MULTI-HAZARD RISK (MHR) -

High

Score: 0.595 • Rank: 5/23



RESILIENCE (R) -

Low

Score: 0.340 • Rank: 17/23



MULTI-HAZARD EXPOSURE (MHE) -

Moderate

Score: 0.465 • Rank: 10/23



VULNERABILITY (V) -

Very High

Score: 0.685 • Rank: 4/23



COPING CAPACITY (CC) -

Moderate

Score: 0.365 • Rank: 13/23

REGION HIGHLIGHTS



Population (2018 Census)

1,797,894



Extreme Poverty Rate

78.2%



Household Access to Drinking Water

43.5%



Literacy Rate

46.5%



Household Access to Electricity

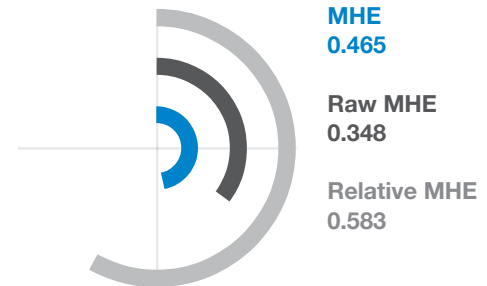
43.5%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 10 / 23 REGIONS

SCORE: 0.465



ESTIMATED EXPOSURE TO EACH HAZARD:



Sea Level Rise

1% (2,850)

Buildings Exposed: <1%

Critical Infrastructure Exposed: <1%



Landslide

10% (54,600)

Buildings Exposed: 4%

Critical Infrastructure Exposed: 7%



Coastal Flooding

2% (12,600)

Buildings Exposed: 3%

Critical Infrastructure Exposed: 8%



Extreme Heat

98% (531,000)

Buildings Exposed: 91%

Critical Infrastructure Exposed: 97%



Riverine Flooding

6% (33,400)

Buildings Exposed: 12%

Critical Infrastructure Exposed: 20%



Wildfire

8% (44,900)

Buildings Exposed: 3%

Critical Infrastructure Exposed: 3%



Tsunami

1% (3,170)

Buildings Exposed: 1%

Critical Infrastructure Exposed: 6%



Malaria

21% (116,000)

Buildings Exposed: 26%

Critical Infrastructure Exposed: 13%



Tropical Cyclone Wind

100% (542,000)

Buildings Exposed: 100%

Critical Infrastructure Exposed: 100%



Locust

Cropland Exposed: 8%



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: 4 / 23 REGIONS ASSESSED
SCORE: 0.685

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



Information Access Vulnerability



SCORE: 0.835

RANK: 3/23 REGIONS ASSESSED



Clean Water Access Vulnerability



SCORE: 0.735

RANK: 7/23 REGIONS ASSESSED



Economic Constraints



SCORE: 0.595

RANK: 3/23 REGIONS ASSESSED



Gender Disparity



SCORE: 0.585

RANK: 5/23 REGIONS ASSESSED



Vulnerable Health Status



SCORE: 0.620

RANK: 3/23 REGIONS ASSESSED



Housing Vulnerability



SCORE: 0.742

RANK: 7/23 REGIONS ASSESSED



VULNERABILITY (V)

RANK: 4 / 23 REGIONS ASSESSED**SCORE: 0.685**

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.



Housing Vulnerability

Populations living in poorly constructed housing, or homes built prior to the enactment of modern building codes, are more susceptible to structural damage and losses due to hazard impacts. In addition, higher density living situations such as crowded households increase susceptibility to negative consequences resulting from hazard exposure.



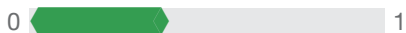
COPING CAPACITY (CC)

RANK: 13 / 23 REGIONS ASSESSED
SCORE: 0.365

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



Economic Capacity

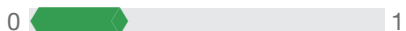


SCORE: 0.367

RANK: 11/23 REGIONS ASSESSED



Health Care Capacity

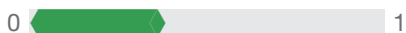


SCORE: 0.224

RANK: 17/23 REGIONS ASSESSED



Energy and Communications Capacity



SCORE: 0.352

RANK: 12/23 REGIONS ASSESSED



Transportation Capacity



SCORE: 0.517

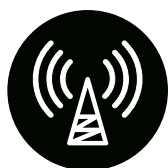
RANK: 11/23 REGIONS ASSESSED

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: 17 / 23 REGIONS ASSESSED

SCORE: 0.340

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

KEY FACTORS INFLUENCING RESILIENCE



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.



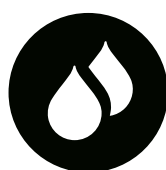
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Housing Vulnerability

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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.



HAZARD-SPECIFIC RISK (HSR)



Sea Level Rise

RANK: 3 / 23 REGIONS ASSESSED
SCORE: 0.507



Coastal Flooding

RANK: 3 / 23 REGIONS ASSESSED
SCORE: 0.572



Riverine Flooding

RANK: 8 / 23 REGIONS ASSESSED
SCORE: 0.443



Tsunami

RANK: 7 / 23 REGIONS ASSESSED
SCORE: 0.314



Tropical Cyclone Wind

RANK: 4 / 23 REGIONS ASSESSED
SCORE: 0.713



Earthquake

RANK: 7 / 23 REGIONS ASSESSED
SCORE: 0.000



Landslide

RANK: 19 / 23 REGIONS ASSESSED
SCORE: 0.232



Extreme Heat

RANK: 1 / 23 REGIONS ASSESSED
SCORE: 0.782



Wildfire

RANK: 6 / 23 REGIONS ASSESSED
SCORE: 0.318



Malaria

RANK: 11 / 23 REGIONS ASSESSED
SCORE: 0.340



Locust

RANK: 12 / 23 REGIONS ASSESSED
SCORE: 0.229



MULTI-HAZARD RISK (MHR)

5 / 23

RANK AMONG REGIONS
SCORE: 0.595

The Multi-Hazard Risk score and ranking represent a combination of multi-hazard exposure, vulnerability, and coping capacity. Below is a summary of the Atsimo Andrefana 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
— ATSIMO ANDREFANA SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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