



MADAGASCAR

SOFIA

NDPBA REGION PROFILE

MADAGASCAR

REGION: SOFIA



RISK AND VULNERABILITY COMPONENT SCORES



MULTI-HAZARD RISK (MHR) -

Moderate

Score: 0.526 • Rank: 10/23



RESILIENCE (R) -

Moderate

Score: 0.457 • Rank: 10/23



MULTI-HAZARD EXPOSURE (MHE) -

Moderate

Score: 0.492 • Rank: 9/23



VULNERABILITY (V) -

Moderate

Score: 0.463 • Rank: 13/23



COPING CAPACITY (CC) -

Moderate

Score: 0.378 • Rank: 11/23

REGION HIGHLIGHTS



Population (2018 Census)

1,507,591



Extreme Poverty Rate

41.6%



Household Access to Drinking Water

37.6%



Literacy Rate

78.0%



Household Access to Electricity

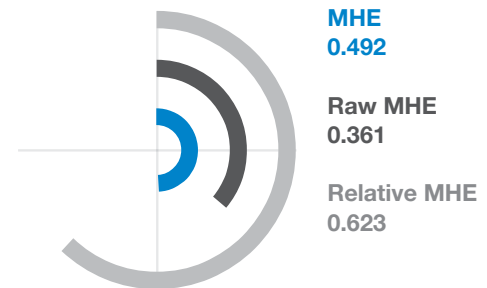
37.6%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 9 / 23 REGIONS

SCORE: 0.492



ESTIMATED EXPOSURE TO EACH HAZARD:



Sea Level Rise

<1% (190)

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **13%**



Landslide

30% (263,000)

Buildings Exposed: **28%**

Critical Infrastructure Exposed: **28%**



Coastal Flooding

<1% (1,610)

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **13%**



Extreme Heat

30% (261,000)

Buildings Exposed: **49%**

Critical Infrastructure Exposed: **54%**



Riverine Flooding

6% (53,800)

Buildings Exposed: **7%**

Critical Infrastructure Exposed: **19%**



Wildfire

17% (145,000)

Buildings Exposed: **18%**

Critical Infrastructure Exposed: **20%**



Tsunami

<1% (13)

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **0%**



Malaria

64% (555,000)

Buildings Exposed: **53%**

Critical Infrastructure Exposed: **21%**



Tropical Cyclone Wind

100% (873,000)

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



Locust

Cropland Exposed: **17%**



Earthquake

2% (15,300)

Buildings Exposed: **1%**

Critical Infrastructure Exposed: **1%**

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



VULNERABILITY (V)

RANK: 13 / 23 REGIONS ASSESSED
SCORE: 0.463

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



Information Access Vulnerability



SCORE: 0.618

RANK: 12/23 REGIONS ASSESSED



Clean Water Access Vulnerability

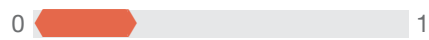


SCORE: 0.690

RANK: 9/23 REGIONS ASSESSED



Economic Constraints

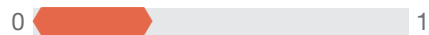


SCORE: 0.240

RANK: 17/23 REGIONS ASSESSED



Gender Disparity

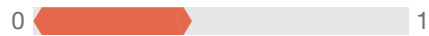


SCORE: 0.292

RANK: 14/23 REGIONS ASSESSED



Vulnerable Health Status



SCORE: 0.389

RANK: 11/23 REGIONS ASSESSED



Housing Vulnerability



SCORE: 0.552

RANK: 14/23 REGIONS ASSESSED



VULNERABILITY (V)

RANK: 13 / 23 REGIONS ASSESSED**SCORE: 0.463**

KEY FACTORS INFLUENCING VULNERABILITY



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.



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.



COPING CAPACITY (CC)

RANK: 11 / 23 REGIONS ASSESSED
SCORE: 0.378

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



Economic Capacity

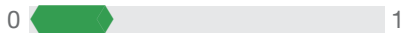


SCORE: 0.518

RANK: 6/23 REGIONS ASSESSED



Health Care Capacity

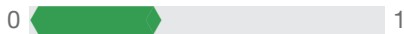


SCORE: 0.184

RANK: 21/23 REGIONS ASSESSED



Energy and Communications Capacity



SCORE: 0.341

RANK: 14/23 REGIONS ASSESSED



Transportation Capacity



SCORE: 0.470

RANK: 13/23 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: 10 / 23 REGIONS ASSESSED

SCORE: 0.457

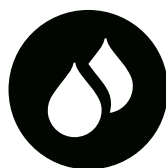
Key drivers of Resilience within Sofia are summarized below. Detailed region-level results for the RVA are available in DisasterAWARE.

KEY FACTORS INFLUENCING RESILIENCE



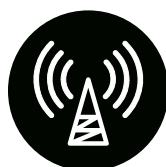
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HAZARD-SPECIFIC RISK (HSR)



Sea Level Rise

RANK: 7 / 23 REGIONS ASSESSED
SCORE: 0.439



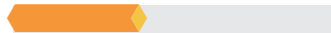
Coastal Flooding

RANK: 7 / 23 REGIONS ASSESSED
SCORE: 0.405



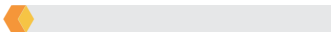
Riverine Flooding

RANK: 11 / 23 REGIONS ASSESSED
SCORE: 0.360



Tsunami

RANK: 13 / 23 REGIONS ASSESSED
SCORE: 0.042



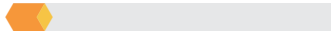
Tropical Cyclone Wind

RANK: 10 / 23 REGIONS ASSESSED
SCORE: 0.644



Earthquake

RANK: 5 / 23 REGIONS ASSESSED
SCORE: 0.091



Landslide

RANK: 12 / 23 REGIONS ASSESSED
SCORE: 0.456



Extreme Heat

RANK: 9 / 23 REGIONS ASSESSED
SCORE: 0.495



Wildfire

RANK: 2 / 23 REGIONS ASSESSED
SCORE: 0.593



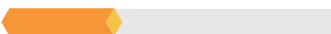
Malaria

RANK: 8 / 23 REGIONS ASSESSED
SCORE: 0.460



Locust

RANK: 11 / 23 REGIONS ASSESSED
SCORE: 0.304





MULTI-HAZARD RISK (MHR)

10 / 23

RANK AMONG REGIONS
SCORE: 0.526

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

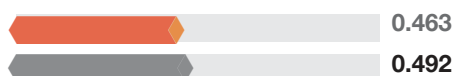
— COUNTRY SCORE
— SOFIA SCORE



Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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