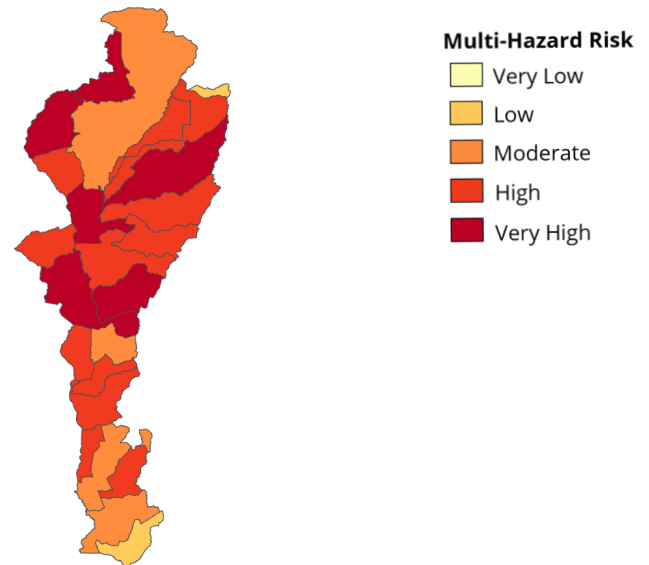COLOMBIA

CESAR

NDPBA DEPARTMENT PROFILE

PDC | GLOBAL

COLOMBIA
DEPARTMENT: CESAR

The Cesar Department Profile provides a comprehensive summary of all municipal assessment findings.

Multi-Hazard Risk
- Very Low
- Low
- Moderate
- High
- Very High

RISK AND VULNERABILITY
AVERAGE MUNICIPAL INDEX SCORES

MULTI-HAZARD RISK (MHR)
Moderate
Average Score: 0.501 • Rank: 15/33

RESILIENCE (R)
High
Average Score: 0.555 • Rank: 11/33

MULTI-HAZARD EXPOSURE (MHE)
Very High
Average Score: 0.614 • Rank: 7/33

VULNERABILITY (V)
Moderate
Average Score: 0.450 • Rank: 18/33

COPING CAPACITY (CC)
Very High
Average Score: 0.559 • Rank: 6/33

DEPARTMENT HIGHLIGHTS

Population (2018 Census)
1,098,577

Multidimensional Poverty Rate (2023)
17.7%

Prevalence of Food Insecurity (2023)
14.1%

Infant Mortality Rate (per 1,000 live births) (2020)
21.8

Adult Illiteracy (2018)
8.6%

MULTI-HAZARD EXPOSURE (MHE)
AVERAGE MUNICIPAL INDEX SCORES

RANK: 7 / 33 DEPARTMENTS
AVERAGE SCORE: 0.614

Average MHE
0.614

Raw MHE
0.605

Relative MHE
0.623

AVERAGE ESTIMATED EXPOSURE TO EACH HAZARD:

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

Extreme Heat
👤 **72%** (718,469)
Buildings Exposed: **81%**
Critical Infrastructure Exposed: **68%**

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

Wildfire
👤 **28%** (279,465)
Buildings Exposed: **33%**
Critical Infrastructure Exposed: **30%**

Riverine Flood
👤 **26%** (257,972)
Buildings Exposed: **31%**
Critical Infrastructure Exposed: **43%**

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

Landslide
👤 **23%** (230,508)
Buildings Exposed: **18%**
Critical Infrastructure Exposed: **32%**

Tropical Cyclone Wind
👤 **0%** (0)
Buildings Exposed: **0%**
Critical Infrastructure Exposed: **0%**

Earthquake
👤 **99%** (994,270)
Buildings Exposed: **100%**
Critical Infrastructure Exposed: **98%**

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

Erosion
👤 **15%** (150,085)
Buildings Exposed: **11%**
Critical Infrastructure Exposed: **7%**

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

MULTI-HAZARD EXPOSURE (MHE)
AVERAGE MUNICIPAL INDEX SCORES

RANK: 7 / 33 DEPARTMENTS
AVERAGE SCORE: 0.614

Combining exposures from all hazards, below is a summary of the top ranking municipalities within Cesar with the highest Multi-Hazard Exposure. Multi-Hazard Exposure for all municipalities is available in DisasterAWARE.

MUNICIPALITIES WITH THE HIGHEST MULTI-HAZARD EXPOSURE

RANK IN DEPARTMENT	MUNICIPALITY	INDEX SCORE
1	El Paso	0.813
2	El Copey	0.797
3	Curumaní	0.790
4	Chiriguaná	0.757
5	La Jagua De Ibirico	0.713

VULNERABILITY (V)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 18 / 33 DEPARTMENTS ASSESSED
AVERAGE SCORE: 0.450

Below is a summary of the municipal Vulnerability Assessment within Cesar. Detailed municipal-level results, including all indicators used to assess Vulnerability, are available in DisasterAWARE.
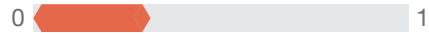
Information Access Vulnerability

0 ———————— 1

SCORE: 0.460

RANK: 19/33
DEPARTMENTS ASSESSED

Clean Water Access Vulnerability

0 ———————— 1

SCORE: 0.285

RANK: 28/33
DEPARTMENTS ASSESSED
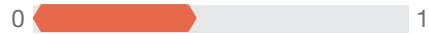
Economic Constraints

0 ———————— 1

SCORE: 0.480

RANK: 12/33
DEPARTMENTS ASSESSED

Marginalization

0 ———————— 1

SCORE: 0.417

RANK: 19/33
DEPARTMENTS ASSESSED

Vulnerable Health Status

0 ———————— 1

SCORE: 0.452

RANK: 15/33
DEPARTMENTS ASSESSED

Housing Vulnerability

0 ———————— 1

SCORE: 0.603

RANK: 14/33
DEPARTMENTS ASSESSED

VULNERABILITY (V)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 18 / 33 DEPARTMENTS ASSESSED
AVERAGE SCORE: 0.450

KEY FACTORS INFLUENCING VULNERABILITY

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.

Economic Constraints

Economic constraints have individual, household, community, and region-wide influence. Limitations on available financial resources reduce opportunities to invest in mitigation and preparedness measures and limit the ability to facilitate short- and long-term recovery.

MUNICIPALITIES WITH THE HIGHEST VULNERABILITY		
RANK IN DEPARTMENT	**MUNICIPALITY**	**INDEX SCORE**
1	Pueblo Bello	0.647
2	González	0.517
3	Chimichagua	0.514
4	Astrea	0.498
5	Becerril	0.480

COPING CAPACITY (CC)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 6 / 33 DEPARTMENTS ASSESSED
AVERAGE SCORE: 0.559

Below is a summary of the municipal Coping Capacity Assessment within Cesar. Detailed municipal-level results, including all indicators used to assess Coping Capacity, are available in DisasterAWARE.

Governance

0 ——————— 1

SCORE: 0.565

RANK: 8/33
DEPARTMENTS ASSESSED

Infrastructure Capacity

0 ——————— 1

SCORE: 0.553

RANK: 8/33
DEPARTMENTS ASSESSED

Transportation Capacity

0 ——————— 1

SCORE: 0.612

RANK: 9/33
DEPARTMENTS ASSESSED

Healthcare and Emergency Services Capacity

0 ——————— 1

SCORE: 0.495

RANK: 9/33
DEPARTMENTS ASSESSED

Energy and Communications Capacity

0 ——————— 1

SCORE: 0.553

RANK: 9/33
DEPARTMENTS ASSESSED

COPING CAPACITY (CC)
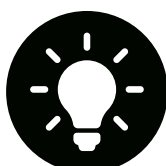**AVERAGE MUNICIPAL INDEX SCORES**

RANK: 6 / 33 DEPARTMENTS ASSESSED
AVERAGE SCORE: 0.559

KEY FACTORS INFLUENCING COPING CAPACITY

Healthcare and Emergency Services Capacity

Establishing and maintaining a broad range of systems and resources, including skilled caregivers and dedicated facilities, to support emergency services and the treatment of injury and disease during non-disaster times, will greatly enhance the capacity for disaster management and response, and improve the ability of societies to address disaster-associated health and medical impacts.

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.

MUNICIPALITIES WITH THE HIGHEST COPING CAPACITY		
RANK IN DEPARTMENT	**MUNICIPALITY**	**INDEX SCORE**
1	San Martín	0.643
2	Valledupar	0.642
3	La Jagua De Ibirico	0.631
4	San Alberto	0.628
5	Aguachica	0.618

RESILIENCE (R)

The Resilience score and ranking represent a combination of Moderate Vulnerability and Very High Coping Capacity. Key drivers of Resilience across mucipalities within Cesar are summarized below. Detailed municipal-level results for the RVA are available in DisasterAWARE.

KEY FACTORS INFLUENCING RESILIENCE

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.

Healthcare and Emergency Services Capacity

Establishing and maintaining a broad range of systems and resources, including skilled caregivers and dedicated facilities, to support emergency services and the treatment of injury and disease during non-disaster times, will greatly enhance the capacity for disaster management and response, and improve the ability of societies to address disaster-associated health and medical impacts.

Economic Constraints

Economic constraints have individual, household, community, and region-wide influence. Limitations on available financial resources reduce opportunities to invest in mitigation and preparedness measures and limit the ability to facilitate short- and long-term recovery.
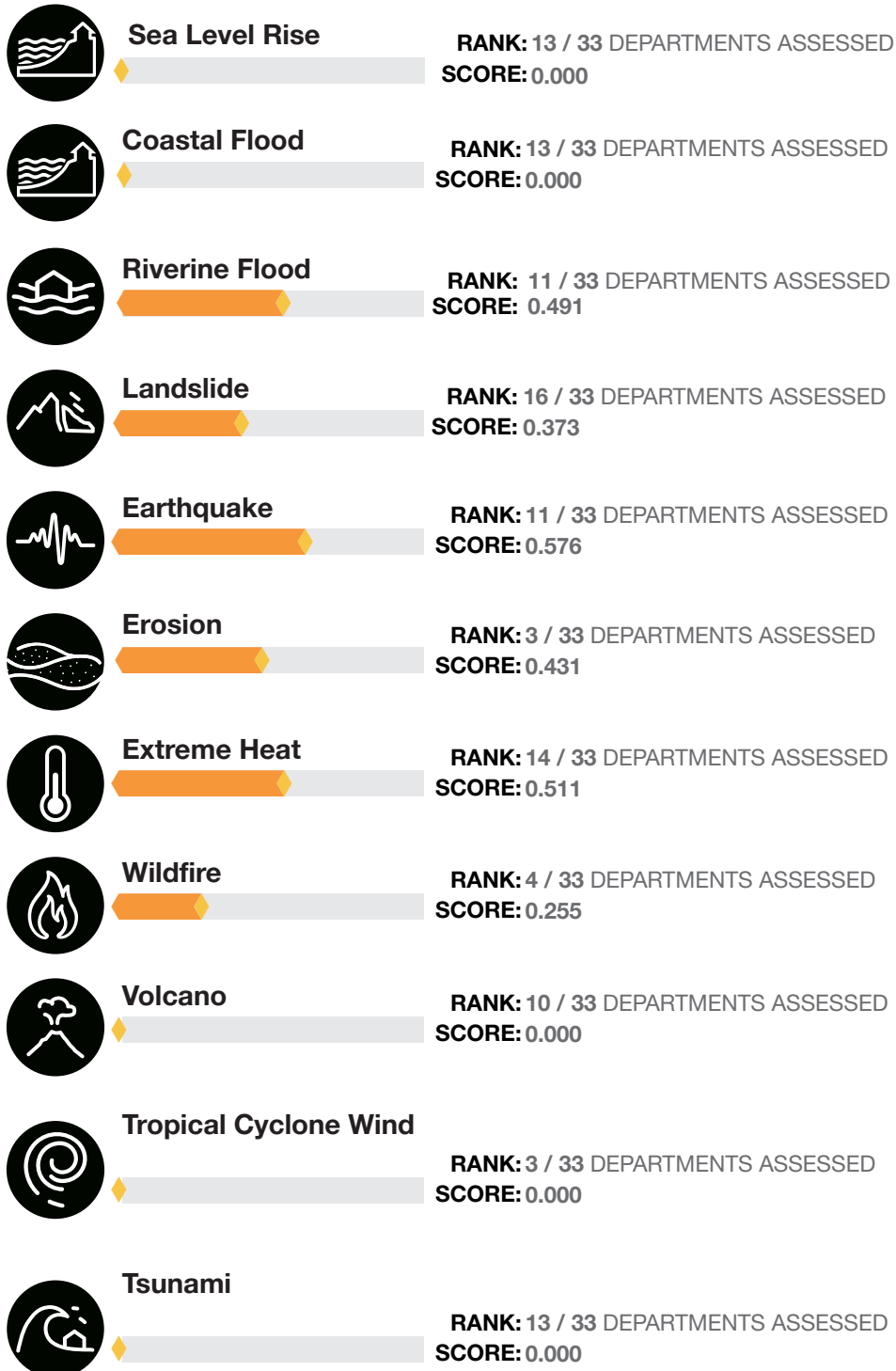
Information Access Vulnerability

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)

AVERAGE MUNICIPAL INDEX SCORES

Sea Level Rise

RANK: **13 / 33** DEPARTMENTS ASSESSED
SCORE: 0.000

Coastal Flood

RANK: **13 / 33** DEPARTMENTS ASSESSED
SCORE: 0.000

Riverine Flood

RANK: **11 / 33** DEPARTMENTS ASSESSED
SCORE: 0.491

Landslide

RANK: **16 / 33** DEPARTMENTS ASSESSED
SCORE: 0.373

Earthquake

RANK: **11 / 33** DEPARTMENTS ASSESSED
SCORE: 0.576

Erosion

RANK: **3 / 33** DEPARTMENTS ASSESSED
SCORE: 0.431

Extreme Heat

RANK: **14 / 33** DEPARTMENTS ASSESSED
SCORE: 0.511

Wildfire

RANK: **4 / 33** DEPARTMENTS ASSESSED
SCORE: 0.255

Volcano

RANK: **10 / 33** DEPARTMENTS ASSESSED
SCORE: 0.000

Tropical Cyclone Wind

RANK: **3 / 33** DEPARTMENTS ASSESSED
SCORE: 0.000

Tsunami

RANK: **13 / 33** DEPARTMENTS ASSESSED
SCORE: 0.000

MULTI-HAZARD RISK (MHR)

15 / 33
RANK AMONG DEPARTMENTS
AVERAGE SCORE: 0.501

The Multi-Hazard Risk score and ranking represent a combination of Multi-Hazard Exposure, Vulnerability, and Coping Capacity. Below is a summary of Cesar's RVA results across all municipalities. Detailed municipal-level results for the RVA are available in DisasterAWARE.

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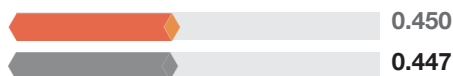
COUNTRY SCORE
CESAR SCORE

Multi-Hazard Exposure
0.614
0.465

Vulnerability
0.450
0.447

Coping Capacity
0.559
0.518

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