



# COLOMBIA

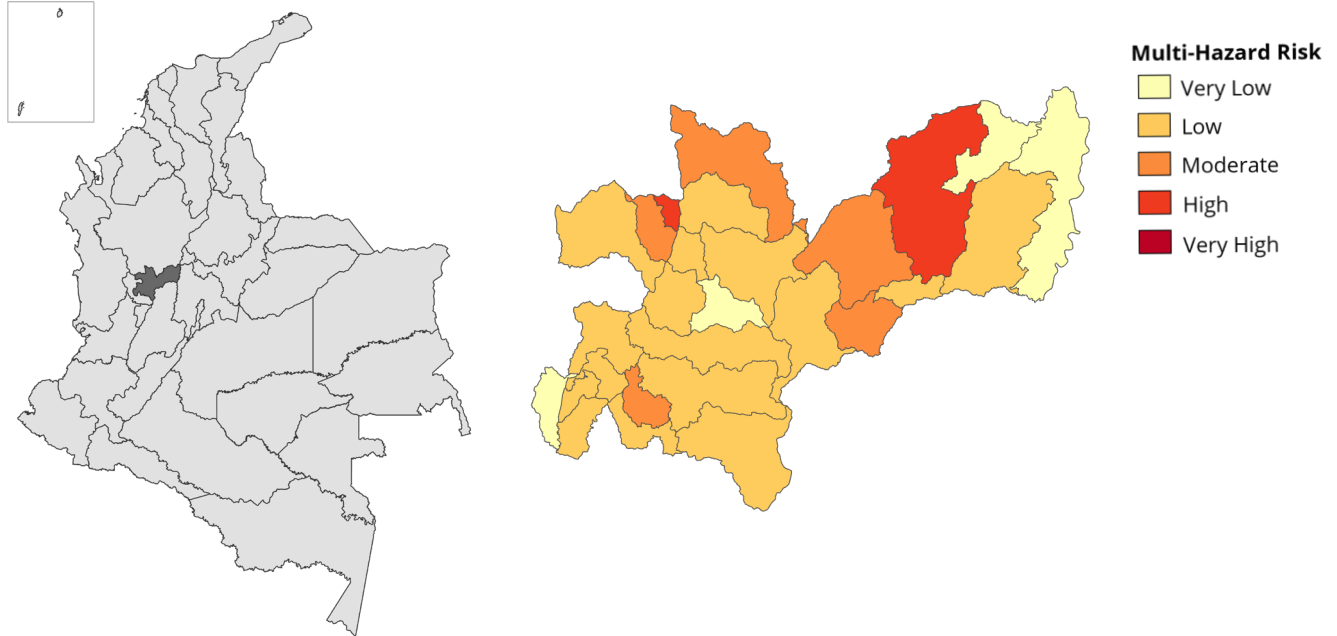
# CALDAS

## NDPBA DEPARTMENT PROFILE

# COLOMBIA

## DEPARTMENT: CALDAS

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



### RISK AND VULNERABILITY

#### AVERAGE MUNICIPAL INDEX SCORES



#### MULTI-HAZARD RISK (MHR)

**Very Low**

Average Score: 0.428 • Rank: 29/33



#### RESILIENCE (R)

**Very High**

Average Score: 0.587 • Rank: 7/33



#### MULTI-HAZARD EXPOSURE (MHE)

**Moderate**

Average Score: 0.458 • Rank: 18/33



#### VULNERABILITY (V)

**Very Low**

Average Score: 0.364 • Rank: 29/33



#### COPING CAPACITY (CC)

**High**

Average Score: 0.538 • Rank: 9/33

#### DEPARTMENT HIGHLIGHTS



Population (2018 Census)

**923,472**



Multidimensional Poverty Rate (2023)

**7.4%**



Prevalence of Food Insecurity (2023)

**12.5%**



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

**13.5**



Adult Illiteracy (2018)

**5.0%**

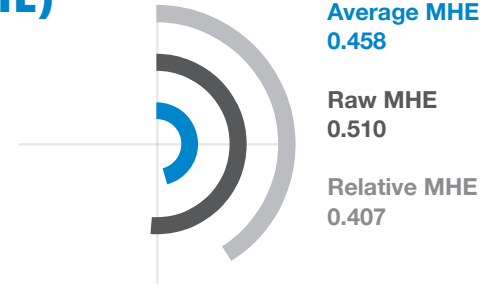


## MULTI-HAZARD EXPOSURE (MHE)

### AVERAGE MUNICIPAL INDEX SCORES

RANK: 18 / 33 DEPARTMENTS

AVERAGE SCORE: 0.458



### AVERAGE ESTIMATED EXPOSURE TO EACH HAZARD:



#### Sea Level Rise

**0%** (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Extreme Heat

**0%** (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Coastal Flood

**0%** (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Wildfire

**0%** (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Riverine Flood

**10%** (87,061)

Buildings Exposed: **9%**

Critical Infrastructure Exposed: **5%**



#### Volcano

**54%** (469,347)

Buildings Exposed: **42%**

Critical Infrastructure Exposed: **37%**



#### Landslide

**90%** (780,220)

Buildings Exposed: **91%**

Critical Infrastructure Exposed: **95%**



#### Tropical Cyclone Wind

**0%** (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Earthquake

**100%** (865,720)

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



#### Tsunami

**0%** (0)

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Erosion

**1%** (7,409)

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.

**MULTI-HAZARD EXPOSURE (MHE)****RANK: 18 / 33 DEPARTMENTS****AVERAGE MUNICIPAL INDEX SCORES****AVERAGE SCORE: 0.458**

Combining exposures from all hazards, below is a summary of the top ranking municipalities within Caldas 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

Manizales

0.786

2

Villamaría

0.673

3

Chinchiná

0.634

4

Palestina

0.595

5

Supía

0.554



## VULNERABILITY (V)

**RANK: 29 / 33 DEPARTMENTS ASSESSED**  
**AVERAGE SCORE: 0.364**

### AVERAGE MUNICIPAL INDEX SCORES

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



#### Information Access Vulnerability

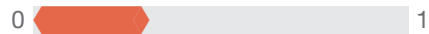


**SCORE: 0.445**

**RANK: 22/33**  
DEPARTMENTS ASSESSED



#### Clean Water Access Vulnerability

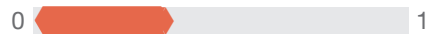


**SCORE: 0.282**

**RANK: 29/33**  
DEPARTMENTS ASSESSED



#### Economic Constraints

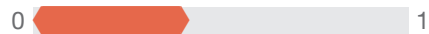


**SCORE: 0.344**

**RANK: 28/33**  
DEPARTMENTS ASSESSED



#### Marginalization

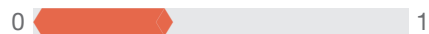


**SCORE: 0.397**

**RANK: 22/33**  
DEPARTMENTS ASSESSED



#### Vulnerable Health Status

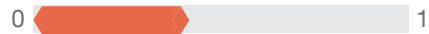


**SCORE: 0.336**

**RANK: 29/33**  
DEPARTMENTS ASSESSED



#### Housing Vulnerability



**SCORE: 0.381**

**RANK: 29/33**  
DEPARTMENTS ASSESSED





## VULNERABILITY (V)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 29 / 33 DEPARTMENTS ASSESSED

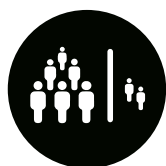
AVERAGE SCORE: 0.364

### 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.



#### Marginalization

Group-based differences in access to resources, services, opportunities, and formal economic and political structures that favor some groups over others influence the disaster susceptibility of the groups and individuals affected. Identification of populations facing significant inequalities or marginalization can help anticipate where relief and mass care operations (e.g., sheltering, health care delivery) needs will be greatest.

### MUNICIPALITIES WITH THE HIGHEST VULNERABILITY

#### RANK IN

#### DEPARTMENT

#### MUNICIPALITY

#### INDEX SCORE

1	Samaná	0.478
2	Marmato	0.458
3	Belalcázar	0.446
4	Marulanda	0.443
5	Risaralda	0.432



## COPING CAPACITY (CC)

### AVERAGE MUNICIPAL INDEX SCORES

**RANK: 9 / 33 DEPARTMENTS ASSESSED**  
**AVERAGE SCORE: 0.538**

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



#### Governance



**SCORE: 0.516**

**RANK: 21/33**  
DEPARTMENTS ASSESSED



#### Infrastructure Capacity



**SCORE: 0.560**

**RANK: 7/33**  
DEPARTMENTS ASSESSED



#### Transportation Capacity



**SCORE: 0.585**

**RANK: 13/33**  
DEPARTMENTS ASSESSED



#### Healthcare and Emergency Services Capacity



**SCORE: 0.474**

**RANK: 14/33**  
DEPARTMENTS ASSESSED



#### Energy and Communications Capacity



**SCORE: 0.621**

**RANK: 6/33**  
DEPARTMENTS ASSESSED



## COPING CAPACITY (CC)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 9 / 33 DEPARTMENTS ASSESSED  
AVERAGE SCORE: 0.538

### 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.



#### Governance

The stability and effectiveness of institutional structures, trust in government, and enforcement of laws to prevent and control crime and violence is an indication of a government's ability to successfully mitigate and cope with hazards. Instability of institutional structures can make a municipality more susceptible to the negative effects of a disaster event.

### MUNICIPALITIES WITH THE HIGHEST COPING CAPACITY

#### RANK IN

#### DEPARTMENT

#### MUNICIPALITY

#### INDEX SCORE

1	Manizales	0.723
2	Chinchiná	0.637
3	Villamaría	0.609
4	Viterbo	0.607
5	Palestina	0.597





## RESILIENCE (R)

**RANK: 7 / 33 DEPARTMENTS ASSESSED**

**AVERAGE SCORE: 0.587**

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

### KEY FACTORS INFLUENCING RESILIENCE



#### 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.



#### Governance

The stability and effectiveness of institutional structures, trust in government, and enforcement of laws to prevent and control crime and violence is an indication of a government's ability to successfully mitigate and cope with hazards. Instability of institutional structures can make a municipality more susceptible to the negative effects of a disaster event.



#### 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.



#### 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.



## 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: 24 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.280**



**Landslide**

**RANK: 5 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.552**



**Earthquake**

**RANK: 20 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.544**



**Erosion**

**RANK: 24 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.176**



**Extreme Heat**

**RANK: 28 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.000**



**Wildfire**

**RANK: 17 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.000**



**Volcano**

**RANK: 5 / 33 DEPARTMENTS ASSESSED**  
**SCORE: 0.101**



**Tropical Cyclone Wind**

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



**Tsunami**

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



## MULTI-HAZARD RISK (MHR)

**29 / 33**

RANK AMONG DEPARTMENTS  
AVERAGE SCORE: 0.428

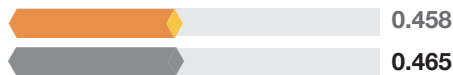
The Multi-Hazard Risk score and ranking represent a combination of Multi-Hazard Exposure, Vulnerability, and Coping Capacity. Below is a summary of Caldas's RVA results across all municipalities. Detailed municipal-level results for the RVA are available in DisasterAWARE.

**Multi-Hazard Risk component scores  
compared to overall average country scores:**

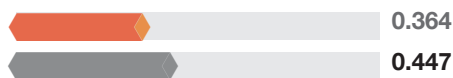
— COUNTRY SCORE  
— CALDAS SCORE



### Multi-Hazard Exposure



### Vulnerability



### Coping Capacity



**Better solutions.  
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**1305 N. Holopono Street | P: (808) 891-0525  
Suite 2, Kihei, HI 96753 | F: (808) 891-0526**



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**[www.pdc.org](http://www.pdc.org)**



**[ndpba.col@pdc.org](mailto:ndpba.col@pdc.org)**