



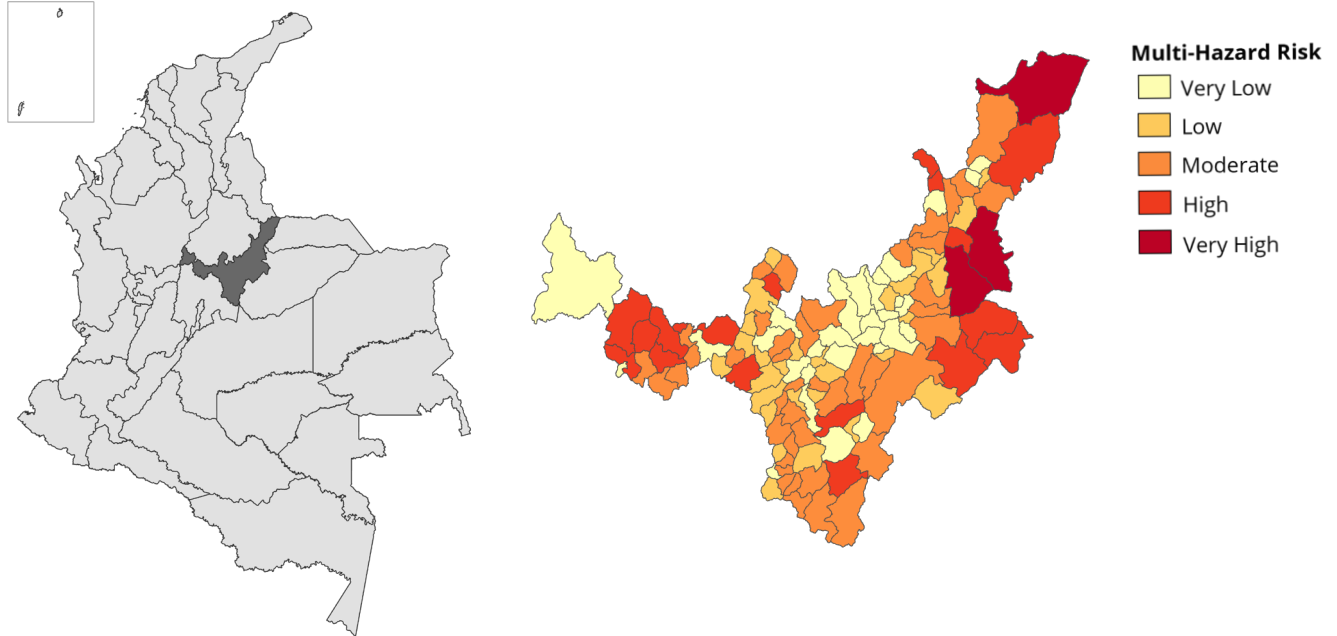
# COLOMBIA BOYACÁ

## NDPBA DEPARTMENT PROFILE

# COLOMBIA

## DEPARTMENT: BOYACÁ

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



### RISK AND VULNERABILITY

#### AVERAGE MUNICIPAL INDEX SCORES



#### MULTI-HAZARD RISK (MHR)

**Low**

Average Score: 0.436 • Rank: 26/33



#### RESILIENCE (R)

**Moderate**

Average Score: 0.527 • Rank: 17/33



#### MULTI-HAZARD EXPOSURE (MHE)

**Very Low**

Average Score: 0.362 • Rank: 29/33



#### VULNERABILITY (V)

**Moderate**

Average Score: 0.447 • Rank: 19/33



#### COPING CAPACITY (CC)

**Moderate**

Average Score: 0.502 • Rank: 21/33

#### DEPARTMENT HIGHLIGHTS



Population (2018 Census)

**1,135,698**



Multidimensional Poverty Rate  
(2023)

**9.9%**



Prevalence of Food Insecurity  
(2023)

**18.3%**



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

**15.0**



Adult Illiteracy (2018)

**5.7%**

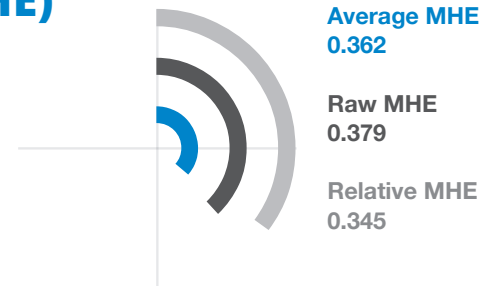


## MULTI-HAZARD EXPOSURE (MHE)

### AVERAGE MUNICIPAL INDEX SCORES

**RANK: 29 / 33 DEPARTMENTS**

**AVERAGE SCORE: 0.362**



### AVERAGE ESTIMATED EXPOSURE TO EACH HAZARD:



#### Sea Level Rise

**0% (0)**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Extreme Heat

**<1% (3,580)**

Buildings Exposed: **<1%**

Critical Infrastructure Exposed: **<1%**



#### Coastal Flood

**0% (0)**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Wildfire

**0% (0)**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Riverine Flood

**6% (76,686)**

Buildings Exposed: **4%**

Critical Infrastructure Exposed: **14%**



#### Volcano

**0% (0)**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Landslide

**76% (911,742)**

Buildings Exposed: **79%**

Critical Infrastructure Exposed: **72%**



#### Tropical Cyclone Wind

**0% (0)**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Earthquake

**100% (1,196,572)**

Buildings Exposed: **100%**

Critical Infrastructure Exposed: **100%**



#### Tsunami

**0% (0)**

Buildings Exposed: **0%**

Critical Infrastructure Exposed: **0%**



#### Erosion

**8% (91,164)**

Buildings Exposed: **9%**

Critical Infrastructure Exposed: **6%**

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: 29 / 33 DEPARTMENTS****AVERAGE MUNICIPAL INDEX SCORES****AVERAGE SCORE: 0.362**

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

Ráquira

0.539

2

Moniquirá

0.497

3

Tunja

0.487

4

Duitama

0.477

5

Sáchica

0.465





## VULNERABILITY (V)

**RANK: 19 / 33 DEPARTMENTS ASSESSED**

**AVERAGE SCORE: 0.447**

### AVERAGE MUNICIPAL INDEX SCORES

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



#### Information Access Vulnerability



**SCORE: 0.423**

**RANK: 25/33**

DEPARTMENTS ASSESSED



#### Clean Water Access Vulnerability



**SCORE: 0.445**

**RANK: 15/33**

DEPARTMENTS ASSESSED



#### Economic Constraints



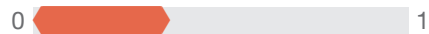
**SCORE: 0.459**

**RANK: 13/33**

DEPARTMENTS ASSESSED



#### Marginalization



**SCORE: 0.342**

**RANK: 30/33**

DEPARTMENTS ASSESSED



#### Vulnerable Health Status



**SCORE: 0.556**

**RANK: 7/33**

DEPARTMENTS ASSESSED



#### Housing Vulnerability



**SCORE: 0.459**

**RANK: 26/33**

DEPARTMENTS ASSESSED



## VULNERABILITY (V)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 19 / 33 DEPARTMENTS ASSESSED

AVERAGE SCORE: 0.447

### KEY FACTORS INFLUENCING VULNERABILITY



#### Vulnerable Health Status

A population's health status, and the status of mechanisms that support public health greatly influence short and long-term disaster outcomes. Poor health is often correlated with increased susceptibility to injury, disease, and stress associated with disasters and can limit response capacity (e.g., evacuation).



#### 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	Cubará	0.718
2	Jericó	0.647
3	Chita	0.622
4	Güicán De La Sierra	0.621
5	Paya	0.618



## COPING CAPACITY (CC)

### AVERAGE MUNICIPAL INDEX SCORES

**RANK: 21 / 33 DEPARTMENTS ASSESSED**  
**AVERAGE SCORE: 0.502**

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



#### Governance



**SCORE: 0.533**

**RANK: 16/33**  
DEPARTMENTS ASSESSED



#### Infrastructure Capacity



**SCORE: 0.471**

**RANK: 20/33**  
DEPARTMENTS ASSESSED



#### Transportation Capacity



**SCORE: 0.472**

**RANK: 25/33**  
DEPARTMENTS ASSESSED



#### Healthcare and Emergency Services Capacity



**SCORE: 0.503**

**RANK: 7/33**  
DEPARTMENTS ASSESSED



#### Energy and Communications Capacity



**SCORE: 0.438**

**RANK: 21/33**  
DEPARTMENTS ASSESSED



## COPING CAPACITY (CC)

AVERAGE MUNICIPAL INDEX SCORES

RANK: 21 / 33 DEPARTMENTS ASSESSED  
AVERAGE SCORE: 0.502

### KEY FACTORS INFLUENCING COPING CAPACITY



#### 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.



#### 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.

### MUNICIPALITIES WITH THE HIGHEST COPING CAPACITY

#### RANK IN

#### DEPARTMENT

#### MUNICIPALITY

#### INDEX SCORE

1	Tunja	0.757
2	Sogamoso	0.710
3	Duitama	0.689
4	Nobsa	0.680
5	Paipa	0.659





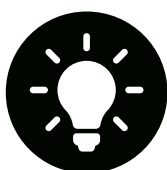
## RESILIENCE (R)

**RANK: 17 / 33 DEPARTMENTS ASSESSED**

**AVERAGE SCORE: 0.527**

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

### KEY FACTORS INFLUENCING RESILIENCE



#### 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.



#### Vulnerable Health Status

A population's health status, and the status of mechanisms that support public health greatly influence short and long-term disaster outcomes. Poor health is often correlated with increased susceptibility to injury, disease, and stress associated with disasters and can limit response capacity (e.g., evacuation).



#### 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.



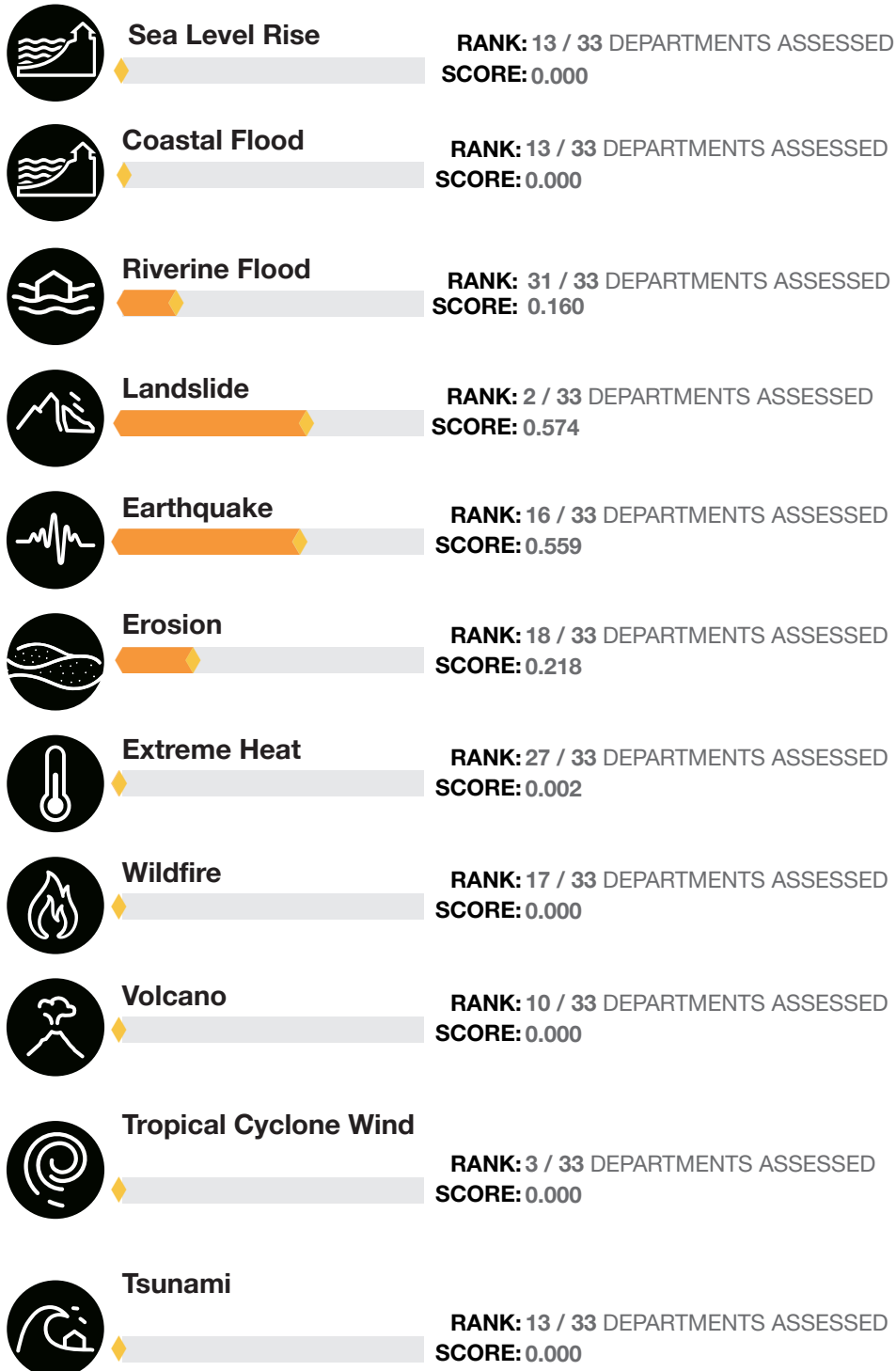
#### Healthcare and Emergency Services Capacity

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.



## HAZARD-SPECIFIC RISK (HSR)

### AVERAGE MUNICIPAL INDEX SCORES





## MULTI-HAZARD RISK (MHR)

**26 / 33**

RANK AMONG DEPARTMENTS  
AVERAGE SCORE: 0.436

The Multi-Hazard Risk score and ranking represent a combination of Multi-Hazard Exposure, Vulnerability, and Coping Capacity. Below is a summary of Boyacá'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:**

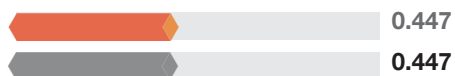
— COUNTRY SCORE  
— BOYACÁ SCORE



### Multi-Hazard Exposure



### Vulnerability



### Coping Capacity



**Better solutions.  
Fewer disasters.**

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