



NEPAL

SOLUKHUMBU

NDPBA SUBNATIONAL PROFILE

NEPAL

SOLUKHUMBU

Area: 3,312 km²



RISK AND VULNERABILITY

COMPONENT SCORE



MULTI-HAZARD RISK (MHR) -

Very Low

Score: 0.433 • Rank: 70/77



RESILIENCE (R) - Moderate

Score: 0.516 • Rank: 34/77



MULTI-HAZARD EXPOSURE (MHE) -

Very Low

Score: 0.330 • Rank: 72/77



VULNERABILITY (V) - Low

Score: 0.418 • Rank: 49/77



COPING CAPACITY (CC) -

Moderate

Score: 0.449 • Rank: 32/77



Population (2021 Statistical Yearbook)

104,768



Infant Mortality Rate (per 1,000 live births)

42.2



Population below Poverty Line

25.7%



Population with Safe Drinking Water

89.1%



Adult Literacy

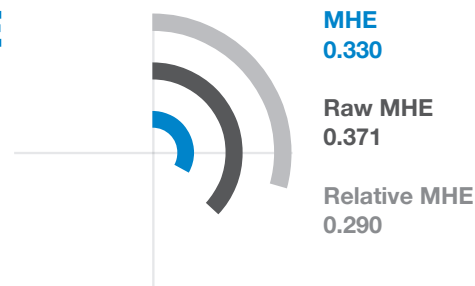
57.5%



MULTI-HAZARD EXPOSURE (MHE)

RANK: 72 / 77 DISTRICTS

SCORE: 0.330



ESTIMATED EXPOSURE TO EACH HAZARD:



Earthquake

100%

50,355

\$172.03 Million

Critical Infrastructure Exposed:
100%



Landslide

100%

50,312

\$165.46 Million

Critical Infrastructure Exposed:
96%



Extreme Heat

0%

0

\$0

Critical Infrastructure Exposed:
0%



Wildfire

0%

0

\$0

Critical Infrastructure Exposed:
0%



Fluvial Flood

<1%

184

\$8.53 Million

Critical Infrastructure Exposed:
5%



Pluvial Flood

3%

1,577

\$29.96 Million

Critical Infrastructure Exposed:
17%

NOTE: Population exposure values for Nepal districts are estimated using PDC's AIM model. Values may differ from Census population estimates.



VULNERABILITY (V)

RANK: 49 / 77 DISTRICTS ASSESSED
SCORE: 0.418

Vulnerability in Solukhumbu is primarily driven by Food Insecurity and Information Access Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Information Access Vulnerability

0  1 **SCORE: 0.507** **RANK: 41/77 DISTRICTS ASSESSED**

57.5%

Adult Literacy

3.3

Mean Years of
Schooling

95.9

Primary
School Net
Enrollment

16.45

Student
Teacher Ratio



Access to Clean Water Vulnerability

0  1 **SCORE: 0.238** **RANK: 73/77 DISTRICTS ASSESSED**

89.1%

Access to Safe
Drinking Water

24.6%

Households
without Toilet

32.1%

Water
Schemes in
Disrepair

99.2

Typhoid
Incidence (per
10,000)

1.0

Cholera
Incidence (per
100,000)



Economic Constraints

0  1 **SCORE: 0.398** **RANK: 56/77 DISTRICTS ASSESSED**

\$1,841

Income per
Capita (PPP \$)

25.7%

Poverty
Headcount
Ratio

5.7%

Poverty Gap

78.4

Age
Dependency
Ratio



Food Insecurity

0  1 **SCORE: 0.538** **RANK: 27/77 DISTRICTS ASSESSED**

41.7%

Food Poverty
Prevalence

38.5%

Low kcal
Intake
Prevalence

56.4%

Agricultural
Insufficiency
Rate



Gender Inequality

0  1 **SCORE: 0.373** **RANK: 41/77 DISTRICTS ASSESSED**

0.34

Female to Male
Literacy Ratio
(Distance from
Parity)

0.12

Female to Male
Secondary
Enrollment Ratio
(Distance from Parity)

77.6%

No Female
Home
nor Land
Ownership



VULNERABILITY (V)

RANK: 49 / 77 DISTRICTS ASSESSED
SCORE: 0.418

Vulnerability in Solukhumbu is primarily driven by Food Insecurity and Information Access Vulnerability. The bar charts indicate the socioeconomic themes contributing to the overall Vulnerability score.



Vulnerable Health Status

0  1 **SCORE: 0.451** **RANK: 27/77 DISTRICTS ASSESSED**

66.7

Life
Expectancy

2.5%

Disabled
Population



Child Health

0  1 **SCORE: 0.559** **RANK: 22/77 DISTRICTS ASSESSED**

47.6%

Child
Malnutrition
Rate

42.2

Infant Mortality
Rate (per
1,000 live
births)

1031.9

Child ARI
Incidence (per
1,000)

47.4

Child Diarrhea
Incidence (per
100)

126.1

Child
Pneumonia
Incidence (per
1,000)



COPING CAPACITY (CC)

RANK: 32 / 77 DISTRICTS ASSESSED
SCORE: 0.449

Solukhumbu exhibits weaker Coping Capacity in the areas of Energy Capacity and Communications Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.



Economic Capacity

0  1 **SCORE: 0.361** **RANK: 25/77 DISTRICTS ASSESSED**

7,948

Gross Domestic
Product (Million Rs.)

129,010

Labor Productivity
(Rs.)



Governance

0  1 **SCORE: 0.367** **RANK: 64/77 DISTRICTS ASSESSED**

0.18

Average
Annual Conflict
(per 10,000)

6.25

Government
Management
(Score out
of 9)

2.88

Organization
and
Administration
(Score out
of 8)

5.63

Budget
and Plan
Management
(Score out
of 11)

7.06

Fiscal and
Financial
Management
(Score out
of 11)

7.56

Service Flow
(Score out
of 16)

4.25

Judicial Work
(Score out
of 7)

4.25

Physical
Infrastructure
(Score out
of 13)

3

Social Inclusion
(Score out of
10)

2.38

Environmental
Protection
and Disaster
Management
(Score out
of 9)

2

Cooperation
and
Coordination
(Score out
of 6)



Environmental Capacity

0  1 **SCORE: 0.778** **RANK: 9/77 DISTRICTS ASSESSED**

60.2%

Protected Area



COPING CAPACITY (CC)

RANK: 32 / 77 DISTRICTS ASSESSED
SCORE: 0.449

Solukhumbu exhibits weaker Coping Capacity in the areas of Energy Capacity and Communications Capacity. The bar charts indicate the socioeconomic themes contributing to the overall Coping Capacity score.



Infrastructure Capacity

0  1 **SCORE: 0.472** **RANK: 44/77 DISTRICTS ASSESSED**



Communications Capacity

0  1 **SCORE: 0.453** **RANK: 40/77 DISTRICTS ASSESSED**

5.2%

Households
with Landline

0.7%

Households
with Internet

7.8%

Households
with Television

70.2%

Households
with Radio

44.4%

Households
with Mobile
Phone



Logistics Capacity

0  1 **SCORE: 0.599** **RANK: 29/77 DISTRICTS ASSESSED**

1

Road Density
(km per sq. km)

100.0%

Improved
Roadway

29.8

Average
Distance to
Airport (km)

98.2

Average
Distance to
Dry Port (km)

29.8

Average
Distance to
Warehouse
(km)

14.1

Average
Distance to
Police Station
(km)

16.9

Average
Distance to
Hospital (km)

2.77

Operational
Hospital Beds
(per 10,000)



Energy Capacity

0  1 **SCORE: 0.365** **RANK: 51 / 77 DISTRICTS ASSESSED**

62.8%

Households
with Electricity

0.4%

Households
using Gas for
Cooking



RESILIENCE (R)

RANK: 34 / 77 DISTRICTS ASSESSED

SCORE: 0.516

Solukhumbu's score and ranking are due to Low Vulnerability combined with Moderate Coping Capacity scores.

Below are the four thematic areas with the weakest relative scores:



Food Insecurity



Information Access
Vulnerability



Energy Capacity



Communications
Capacity

KEY FACTORS INFLUENCING RESILIENCE



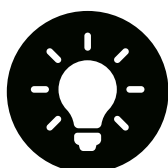
Food Insecurity

The changing frequency and intensity of disasters can expose the entire food system to supply chain disruptions. Promoting resilient agricultural systems through training of local farmers in sustainable practices (e.g., soil improvement, erosion reduction) and improving efficiencies in food marketing, storage, delivery, and waste management will help to increase the nutrition and food security of present and future generations.



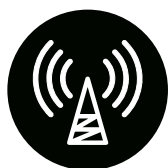
Information Access Vulnerability

Limitations in information access can impede a population's ability to receive, understand, and take action. Emergency messages must take into account the unique information access constraints of the district. Emergency messages presented to the population must contain clear and simple information to ensure an appropriate response to save lives and reduce losses.



Energy Capacity

Homes, businesses, industry, and government all rely on access to energy resources for continuity of daily activities. Expanding, strengthening, and securing the energy network and increasing the availability and quantity of energy reserves will contribute to economic development and increase the speed of recovery processes in the aftermath of a disaster.

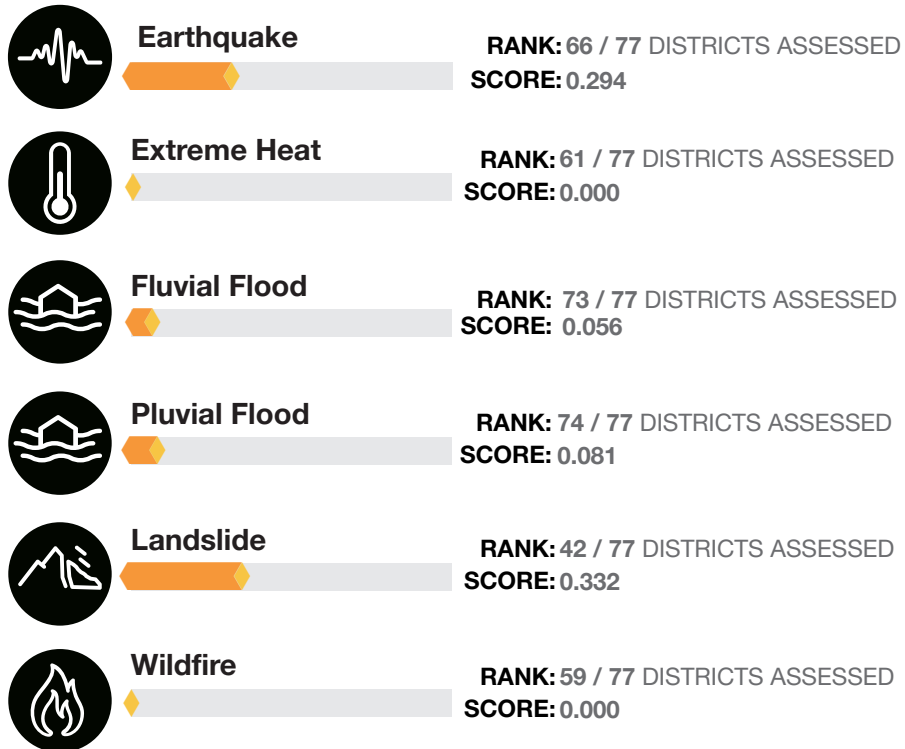


Communications Capacity

The density, diversity, resilience, and quality of communications infrastructure influence how subnational- and local-level populations are able to facilitate effective and coordinated communication.



HAZARD-SPECIFIC RISK (HSR)





MULTI-HAZARD RISK (MHR)

70 / 77RANK WITHIN DISTRICTS
Score: 0.433

Solukhumbu's score and ranking are due to Very Low Multi-hazard Exposure combined with Low Vulnerability and Moderate Coping Capacity scores.

Multi-hazard risk component scores compared to overall average country scores:

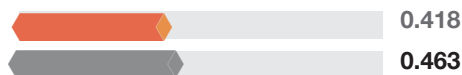
DISTRICTS SCORE
COUNTRY SCORE



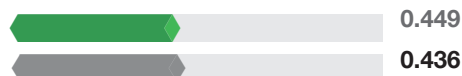
Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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