



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



MHE
0.330

Raw MHE
0.371

Relative MHE
0.290

ESTIMATED EXPOSURE TO EACH HAZARD:



Earthquake

100%

50,355

\$172.03 Million

Critical Infrastructure Exposed:
100%



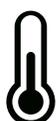
Landslide

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.



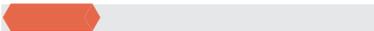
Information Access Vulnerability

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
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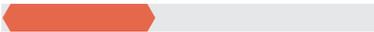
Access to Clean Water Vulnerability

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)
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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
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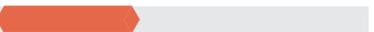
Food Insecurity

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
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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
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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 **129,010**
 Gross Domestic Product (Million Rs.) 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
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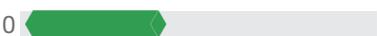
Logistics Capacity

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)
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Energy Capacity

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

62.8% Households with Electricity	0.4% Households using Gas for Cooking
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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)



Earthquake

RANK: 66 / 77 DISTRICTS ASSESSED
SCORE: 0.294



Extreme Heat

RANK: 61 / 77 DISTRICTS ASSESSED
SCORE: 0.000



Fluvial Flood

RANK: 73 / 77 DISTRICTS ASSESSED
SCORE: 0.056



Pluvial Flood

RANK: 74 / 77 DISTRICTS ASSESSED
SCORE: 0.081



Landslide

RANK: 42 / 77 DISTRICTS ASSESSED
SCORE: 0.332



Wildfire

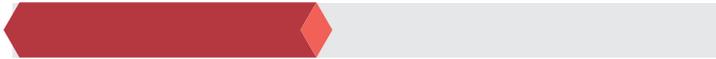
RANK: 59 / 77 DISTRICTS ASSESSED
SCORE: 0.000



MULTI-HAZARD RISK (MHR)

70 / 77

RANK 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:

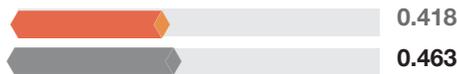
DISTRICTS SCORE
 COUNTRY SCORE



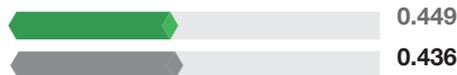
Multi-Hazard Exposure



Vulnerability



Coping Capacity



**Better solutions.
Fewer disasters.**

Safer world.

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